

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

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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEW

+ + + + +

TUESDAY
NOVEMBER 27, 2012

+ + + + +

The Work Group convened in the Zurich Room of the Cincinnati Airport Marriott, 2395 Progress Drive, Hebron, Kentucky, at 8:30 a.m., Mark Griffon, Chairman, presiding.

PRESENT:

MARK GRIFFON, Chairman
BRADLEY P. CLAWSON, Member
DAVID KOTELCHUCK, Member
WANDA I. MUNN, Member
DAVID B. RICHARDSON, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official
KATHY BEHLING, SC&A*
GRADY CALHOUN, DCAS
DOUGLAS FARVER, SC&A
STUART HINNEFELD, DCAS
JENNY LIN, HHS
JOHN MAURO, SC&A*
KEITH MCCARTNEY, ORAU Team*
BETH ROLFES, DCAS
SCOTT SIEBERT, ORAU Team
MATTHEW SMITH, ORAU Team*
JOHN STIVER, SC&A
BOB WARREN*

*Participating via teleconference

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1 P-R-O-C-E-E-D-I-N-G-S

2 (8:31 a.m.)

3 MR. KATZ: Good morning everyone
4 in the room and on the line to the Advisory
5 Board on Radiation and Worker Health, the
6 Subcommittee on Dose Reconstruction Review.

7 We'll get started with our roll
8 call. The agenda for this meeting should be
9 posted on the NIOSH website, under the Board
10 section, under meetings for this date. And
11 some materials related to this meeting should
12 be posted along with that agenda.

13 Let's do Board roll call. And for
14 Board Members and Agencies, well Board Members
15 only actually. Please speak to conflict of
16 interest with respect to Rocky Flats and LANL.
17 Are we, John, are we talking about LANL too?

18 MR. STIVER: Yes. LANL and Rocky
19 Flats.

20 MR. KATZ: LANL, Rocky Flats, just
21 those two, right?

22 MR. STIVER: I believe that's all

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1 we have.

2 MR. KATZ: Okay. In particular.
3 Obviously, also, when we talk about cases,
4 particular cases, recall your conflict of
5 interest as well and recuse yourself from
6 speaking about where you have conflicts for
7 your major sites, for example. So Board
8 Members beginning with Mark.

9 (Roll call.)

10 And if you need to speak to the
11 group press *6 again to come off of mute. And
12 please, nobody put your phone on hold at any
13 point in this meeting. But hang up, dial back
14 in if you need to. And Mark, your agenda.

15 CHAIRMAN GRIFFON: Yes. As Ted
16 said, the agenda was posted on line and sent
17 to all of us. And my hope is that we get
18 through the first three. We can do these
19 pretty much in order.

20 I think it does make sense. The
21 first three items. And I'd like to do the
22 fourth item, which is the procedures stuff,

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1 right after lunch when we're fresh and ready
2 to go. And then as usual, we'll fade into the
3 last set statement.

4 Well, you know. It's reality. So
5 starting with the first item. I think most of
6 this is going to fall into NIOSH's hands. The
7 first bullet's NIOSH ten year review. Items
8 relating to the NIOSH 10-year review, starting
9 with the DCAS blind, DR case --

10 MR. CALHOUN: That will be me.

11 CHAIRMAN GRIFFON: Yes. Whoever
12 presents it, you can like tell us what was
13 sent out, so we can --

14 MR. CALHOUN: Okay.

15 CHAIRMAN GRIFFON: -- have a
16 second to find the documents on our computers.
17 That would be great.

18 MR. CALHOUN: Certainly. Yes,
19 this is Grady. We completed one more
20 assessment of the blind DR program. The last
21 time we were here I gave you the first one.

22 The second one that just went out

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1 yesterday is a review of 19 additions blind
2 DRs that were completed by our group.

3 Basically there were no overturns of
4 compensation decisions that resulted from
5 completion of our review.

6 There were two that the initial
7 Probability of Causation was different. But
8 that turned out on further review to be
9 determined to be an error on our part. The
10 ORAU DRs are correct. Ours were not.

11 One of those was because somebody,
12 one of our reviewers, used an overestimating
13 technique, instead of actually using the
14 dosimetry that was there, which resulted in a
15 Probability of Causation over 50 percent.

16 And then the second one, there
17 were many, many, many, skin cancers and two
18 lung cancers. And they used a coworker
19 intake. But it was more appropriate to use
20 ambient dose.

21 It was an individual who worked as
22 a -- he was rarely at the site, maybe three or

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1 four times over the years that they verified
2 employment. He worked for the city. And he
3 did some -- he worked on water lines.

4 There was a lot of information to
5 go through. And I think the individual on our
6 side should have went through the DOL file a
7 little bit more thoroughly to make that
8 determination.

9 Overall we've got -- now just to
10 let you guys know how it works. We select
11 cases to review. We review those cases. And
12 then we wait for the ORAU team to provide
13 their completed dose reconstruction.

14 They don't know which cases we've
15 chosen. We don't know when they are going to
16 turn theirs in. So these sit kind of in limbo
17 for a while, completed on our side, waiting
18 for theirs to come in. And then we will
19 review it.

20 CHAIRMAN GRIFFON: Just to refresh
21 our memory.

22 MR. CALHOUN: Yes.

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1 CHAIRMAN GRIFFON: The selection
2 criteria, is it random, is it -- how do you
3 select these?

4 MR. CALHOUN: No. It's random.
5 And it's cases that have not yet been
6 completed. Okay. We've selected 70 at this
7 point, okay. Twenty-seven have been
8 completed. They've been actually through the
9 entire process.

10 The remainder, 43, are in various
11 stages of review at this time. The 27, that
12 was 19 that were completed in this last
13 assessment that I just forwarded to you
14 yesterday. And there were eight in the
15 initial one.

16 And the number of blind DR
17 resulting in overturned compensation decision
18 was zero at this point. Still at 43 in the
19 pipes that we haven't completed.

20 CHAIRMAN GRIFFON: And just, can
21 you step us through what you -- I'm looking
22 for the file that you sent yesterday.

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1 MR. CALHOUN: Yes, It should be
2 called --

3 CHAIRMAN GRIFFON: First line, no,
4 no.

5 MR. CALHOUN: It should be called
6 -- Let's see if I can find it. It's called
7 OCAS-COT-041. It's a rather large file.
8 There's 70 pages.

9 CHAIRMAN GRIFFON: Seventy pages.

10 MR. CALHOUN: Yes, right.

11 CHAIRMAN GRIFFON: Did you have --
12 I must admit I didn't get to look at this one.

13 MR. CALHOUN: Well I didn't get it
14 to you until --

15 CHAIRMAN GRIFFON: Right. I saw
16 it on the plane.

17 MR. CALHOUN: -- the end of the
18 day yesterday.

19 CHAIRMAN GRIFFON: Can you, do you
20 have -- I mean, you said that it resulted in
21 none being overturned.

22 MR. CALHOUN: Yes.

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1 CHAIRMAN GRIFFON: Did you, are
2 you collecting information like a table of
3 what NIOSH reviewed --

4 MR. CALHOUN: It's in there.

5 CHAIRMAN GRIFFON: -- versus the,
6 yes --

7 MR. CALHOUN: Yes, it's in there.
8 It is, it is.

9 CHAIRMAN GRIFFON: Okay.

10 MR. CALHOUN: And it's -- the
11 attachments of all the questions that we
12 respond to are listed for all 19 cases. And
13 each case has, I want to say three or four
14 pages associated with, probably three with
15 each dose reconstruction. And it has the ORAU
16 team's approach and our approach.

17 MR. FARVER: Did you find any that
18 would be considered quality errors?

19 MR. CALHOUN: Basically what
20 turned out is that we routinely have
21 differences in dose. I mean, it never turns
22 out that the dose assigned is the same.

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1 And just like the previous
2 assessment, it turns out that it's always a
3 result of the degree of overestimate or
4 underestimate.

5 MR. FARVER: So none that you
6 consider a quality --

7 MR. CALHOUN: Well certainly the
8 two that we looked at that were -- The first
9 one was, there was one that was actually a
10 procedural violation I'll say. In that you
11 can't use an overestimating document or
12 technique for a compensative claim.

13 And so in ours, our first person
14 will review that, will review the dose
15 reconstruction. They actually do the dose
16 reconstruction.

17 And then we've got a second level
18 of review that compares the two. That
19 compares the contractor provided dose
20 reconstruction and the DCAS completed dose
21 reconstruction.

22 And when that comparison was done,

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1 that individual found that an overestimating
2 technique was done. And it should have been
3 actual dosimetry was used. So that was a,
4 really a procedural violation on our part.

5 MR. FARVER: On your part.

6 MR. CALHOUN: Yes. And the second
7 one I think was I'll say more of a
8 professional judgment. But it was fairly
9 clear. And everybody who did the re-review of
10 that, that was an ambient case.

11 I think it may have been that
12 there were so many cancers involved, that to
13 go through it would have taken days and days
14 and days. And if I can comp it based on a
15 coworker dose, I think that's the direction
16 you might have taken.

17 MS. BEHLING: This is Kathy
18 Behling. I was curious as to your selection
19 process. Is the PoC considered at all?

20 MR. CALHOUN: No.

21 MS. BEHLING: Alright.

22 MR. CALHOUN: No. Because we

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1 don't know the PoC when we select them.

2 MS. BEHLING: That's true. Okay.

3 MR. STIVER: Grady, this is John.

4 The last time we left it, I guess there was
5 kind of a, what do you call it, a kind of a
6 long discussion about the selection criteria,
7 and the advantages of doing random versus pre-
8 selecting within the PoC ranges. But I see
9 here -- I haven't had a chance to really look
10 at this in detail.

11 MR. CALHOUN: Right.

12 MR. STIVER: But it says that you
13 guys, as one of the improvements, are to
14 include the PoC per case. But I didn't
15 necessarily see that in most of them. Was it
16 the intention --

17 MR. CALHOUN: Right. We just did
18 that.

19 MR. STIVER: Was that --

20 MR. CALHOUN: We just did that.

21 And basically the issue was, is that we wanted
22 to make sure that we also had a total PoC.

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1 And that wasn't, there wasn't a slot listed
2 for that.

3 And now the actual form that we
4 complete has been modified. So that's a
5 required field to complete. And another thing
6 that we did is that we talked to all our HPs,
7 and asked them to start defining their
8 decision points a little bit better.

9 Now we probably won't see that
10 until the next assessment as these things go
11 out. Because we just did that recently within
12 the last couple of weeks.

13 MR. STIVER: And were the -- do
14 you know the cases that were inadvertently
15 went over to the person done? Were those
16 cases that were pretty close to the 50th
17 percentile to begin with? Do you know?

18 MR. CALHOUN: I don't know off the
19 top of my head. I have to look. The one
20 certainly was. I think the one with all the
21 multiple cancers, the ambient case, was
22 probably in the 40 percent range. But I'll

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1 have to check. I've got that right here.

2 MR. STIVER: Okay.

3 MR. CALHOUN: I can pull that up
4 in a second. Let me see. Yes, the one with
5 the multiple cancers was 43.18 percent as
6 completed by ORAU. And the first one, where
7 the actual dosimetry was used was 37.86
8 percent.

9 MR. STIVER: So is it your sense
10 now that, you know, as you do more of these,
11 that you're kind of converging the ORAU and
12 the DCAS reconstructor, to kind of getting
13 closer to the same value?

14 MR. CALHOUN: Well I hope so. I
15 mean, what we've got to understand, and what I
16 certainly understand, is that our folks are
17 used to reviewing, rather than doing. And the
18 ORAU team is certainly used to doing.

19 And they've got the tools laid out.
20 And they're so accustomed to doing the dose
21 reconstructions. And when our HPs review the
22 dose reconstructions, they typically don't do

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1 the dose reconstruction. They review it, they
2 look and say, does this make sense for these
3 values used? And that kind of thing.

4 So certainly I think that the
5 attention has been raised on being a lot more
6 careful with this. Because it's just not --
7 We want the effort put forth when our guys use
8 a blind dose reconstruction.

9 Let's see. Another thing that
10 we've done too. I don't think that we had
11 forwarded that previous assessment, prior to
12 the last meeting, we had to the ORAU team, to
13 let them know how we are comparing.

14 And so that's been done. And
15 also, we'll be forwarding this one to them
16 too, right away. And Scott's going to get
17 here in a second.

18 MR. SIEBERT: That is good. Got
19 it right now.

20 MR. CALHOUN: You got it? Okay,
21 good.

22 MR. STIVER: Bought him just

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1 enough time.

2 CHAIRMAN GRIFFON: So, I mean, I'm
3 just flipping through some of the many pages
4 in this document. And I look, it's on Page
5 62.

6 MR. CALHOUN: Okay.

7 CHAIRMAN GRIFFON: Claim number 36
8 -- no we don't have to say the claim number.

9 MR. CALHOUN: Yes, probably
10 shouldn't say it.

11 CHAIRMAN GRIFFON: But anyway --

12 MR. CALHOUN: But Page Number 62.

13 CHAIRMAN GRIFFON: Yes.

14 MR. CALHOUN: Let me see if I can
15 get that. Okay. I'm there.

16 CHAIRMAN GRIFFON: Yes. Item
17 B.1.1. I'm curious about the DCAS response
18 versus the ORAU response there. And it says,
19 you assign .014 rem. ORAU assigned .034. And
20 then it says this is based on 0.28, which
21 appears that ORAU doubled dipped .014 rem
22 actual dose of record.

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1 So I guess what I'm trying to
2 understand is, does it appear? Or is that
3 what happened? And why did they do that? And
4 then how did it go from .028 to .034.

5 MR. CALHOUN: There's no way I can
6 answer that question --

7 CHAIRMAN GRIFFON: Right.
8 Alright.

9 MR. CALHOUN: -- off the top of my
10 head right now. So I don't know. I don't
11 know.

12 CHAIRMAN GRIFFON: Alright.

13 MR. FARVER: That's something I
14 would consider a quality issue.

15 CHAIRMAN GRIFFON: Well that's
16 what I'm wondering. You know, when we're
17 looking -- I think when you're using this
18 going forward, I'm just wondering, you know,
19 it's not only to look to see if anything got
20 flipped. It's to sort of look for trends.
21 And you've only got a fairly small set so far.

22 MR. CALHOUN: Right.

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1 CHAIRMAN GRIFFON: But I'm curious
2 about whether it's --

3 MEMBER RICHARDSON: Mark, could I
4 follow up on that?

5 CHAIRMAN GRIFFON: Yes.

6 MEMBER RICHARDSON: Because I was
7 looking at that too. Because that seemed to
8 me one of the reasons we were interested in
9 the blind reviews.

10 CHAIRMAN GRIFFON: Right.

11 MEMBER RICHARDSON: And now that's
12 an abstraction entry of a single recorded
13 photon. There's only one recorded dose for
14 this person. So the data abstraction problem
15 should not be that difficult.

16 CHAIRMAN GRIFFON: Right.

17 MEMBER RICHARDSON: And there was
18 an error that -- but so I started up at the
19 top. And the first three or four cases have
20 no recorded photon dosimetry. So there was no
21 data abstraction problems.

22 But by the time we get to Page 28,

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1 that case has a data abstraction issue, where
2 ORAU abstracted 60, DCAS abstracted five. The
3 next case, on Page 31, has an abstraction
4 issue where ORAU abstracted 20 records, DCAS
5 abstracted 21.

6 The next case, on Page 35, DCAS
7 abstracted 14 records, ORAU abstracted 18. So
8 there's a lot of, I mean, on both sides. For
9 some reason there's a difficulty in doing data
10 abstraction. I mean, this is before we're
11 getting to any of the issues regarding
12 calculations, or scientific issues --

13 MR. CALHOUN: What's the -- Let
14 me, I'm going to have to get another one of
15 these examples.

16 MEMBER RICHARDSON: So --

17 MR. CALHOUN: Give me one of these
18 examples, so I can --

19 MEMBER RICHARDSON: Page 31.

20 MR. CALHOUN: Thirty-one.

21 MEMBER RICHARDSON: This is the
22 second one I mentioned.

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1 MR. CALHOUN: Three point one
2 point two.

3 CHAIRMAN GRIFFON: Let's not
4 mention the claimant here.

5 MEMBER RICHARDSON: I'm just using
6 the page numbers.

7 MR. CALHOUN: Yes, right.

8 MEMBER RICHARDSON: So if you go
9 to Section B.1.2. Number of positive recorded
10 doses; 20. And number of positive recorded
11 doses by DCAS; 21. I mean, I was just, I was
12 looking at those.

13 MR. CALHOUN: Yes.

14 MEMBER RICHARDSON: And there's a
15 whole series of claims here which have
16 different numbers of doses.

17 MR. CALHOUN: Okay.

18 MEMBER RICHARDSON: I don't know.
19 You know, I haven't done anything more than
20 more. I was just looking through the case
21 series. So the first ones there's no problem,
22 because there's no dosimetry information.

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1 And the we hit a series where --
2 I mean, that stands out to me still. I mean,
3 again, I haven't spent any time looking at
4 this. But this was one of the things we were
5 interested in.

6 What's -- now, and I can only say,
7 I mean, when we were sitting in that room
8 looking at it, it did seem to me like a very
9 difficult thing to do. To look at a PDF
10 version of a microfiche record.

11 If I remember this correctly, the
12 process, the historical records were maybe,
13 had been archived to film, scanned into PDF.
14 And the data abstractor was looking at that
15 digital PDF of a microfiche of a hand written
16 log book and abstracting that in.

17 And that is really hard work. I
18 mean, and we had this problem I remember with
19 the multiple myeloma study. Where we couldn't
20 reconstruct a lot of doses from a lot of the
21 sites exactly, because things were illegible.

22 MEMBER MUNN: Can't read it.

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1 MEMBER RICHARDSON: But this was
2 one of the quality issues, was do you want to
3 do this by double entry, or something? Where
4 you at least flag out where there's data
5 abstraction problems.

6 MR. CALHOUN: Yes. Like I said,
7 with these I'm going to have to just go back
8 and look. Because I just don't -- obviously I
9 don't know these cases off the top of my head.

10 MEMBER RICHARDSON: Yes. No,
11 absolutely, yes.

12 MR. CALHOUN: But I'll check that.

13 MEMBER RICHARDSON: I just wanted
14 to point this out as a series of early on in
15 ten minutes that seemed to pop out. And this
16 is what we were finding with, I think, with
17 the case reviews that we had done as well.
18 That these often occurred.

19 MR. HINNEFELD: David, what were
20 the page numbers on that?

21 MR. CALHOUN: I got that.

22 MR. HINNEFELD: You got the page

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1 numbers?

2 MR. CALHOUN: Yes, yes. At least
3 a couple of them. You got some of them?

4 MR. SIEBERT: What were they
5 actually? Because --

6 MR. CALHOUN: I got Page 31. And
7 I'm actually -- I'll send an email just to
8 see if we can find anything out about that.
9 I don't know exactly what --

10 MEMBER MUNN: Sixty-two.

11 MEMBER RICHARDSON: Sixty-two, 28,
12 35. And that's as far as I got.

13 MR. CALHOUN: Is it all on the
14 B.1.2?

15 MEMBER RICHARDSON: Yes. That's
16 just what I was flipping through.

17 CHAIRMAN GRIFFON: Wonder if
18 there's any other format that this would be
19 good to have this information in.

20 MEMBER RICHARDSON: Well I'm
21 imagining that this is stored --

22 CHAIRMAN GRIFFON: In a database.

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1 MEMBER RICHARDSON: -- in a
2 database. Is that right? I mean, it looks
3 like it's generated like --

4 CHAIRMAN GRIFFON: Yes, yes. But
5 also, just other fields I was thinking of was,
6 just looking at -- even though we know there's
7 going to be variations. It would be
8 interesting to me to know the total external
9 assigned, the total internal, you know,
10 numbers like that maybe.

11 MEMBER RICHARDSON: I like the
12 form that you guys have made for the data
13 abstractions. It's great. I was -- I
14 remember when we were talking, we were sort of
15 struggling with, like how were we going to
16 digest this as it's moving forward.

17 CHAIRMAN GRIFFON: Right.

18 MEMBER RICHARDSON: It's perfect.

19 CHAIRMAN GRIFFON: Yes.

20 MR. CALHOUN: Okay, here's one of
21 the issues here. I can tell you here that
22 this is -- I don't remember which number this

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1 has. But this is a paragraph out of the
2 actual dose reconstruction, which is not in
3 the assessment.

4 It says, in addition, dosimetry
5 records indicated some potential short term
6 gaps in external dosimeter records. For
7 example, 2002.

8 Potential dosimeter cycle gaps
9 were filled in based on adjacent cycle
10 dosimetry data, in order to provide a
11 claimant-favorable estimate of Mr. S external
12 dose, in accordance with the guidance
13 technical basis.

14 So when there's a gap -- and I
15 don't know if the differences are typically
16 that ORAU assigned more than we do, or did in
17 that one case. But that could be it. But I'm
18 still going to follow up with that.

19 MEMBER RICHARDSON: Okay. But
20 would that go under B.1.2, or B.2.1?

21 MR. CALHOUN: Don't know.

22 MEMBER RICHARDSON: Because I

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1 would imagine --

2 MR. CALHOUN: I don't know.

3 MEMBER RICHARDSON: I would call
4 that missed dose. As opposed to positive
5 photon dose.

6 CHAIRMAN GRIFFON: Right. For
7 monitoring.

8 MR. SIEBERT: Well, it actually
9 would kind of fall under unmonitored as such.
10 Because if it was a, if you were -- this is
11 Scott, by the way.

12 MEMBER RICHARDSON: Yes.

13 MR. SIEBERT: If you were filling
14 the gap and there were positive dosimeter
15 results on either side, it's going to be a
16 positive result.

17 MEMBER RICHARDSON: Right. Okay.
18 So if you use 3.1, unmonitored dose. I'm
19 sorry, I didn't move down to that category.

20 CHAIRMAN GRIFFON: Or be at 3.1.

21 MEMBER RICHARDSON: But it should
22 be, we still should have positive recorded

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1 photon dose in the IREP sheet for gaps. I
2 mean, there should be, the explanation for
3 there being a difference between the number of
4 years of positive recorded photon dose between
5 two dose constructors shouldn't be due to
6 gaps.

7 I'm just, I'm stating that to see
8 if I'm understanding what you're saying, so I
9 can understand the values that are recorded
10 within the matrix here. So there's a question
11 mark at the end.

12 MR. CALHOUN: Yes, I --

13 MR. HINNEFELD: I think your
14 premise is correct.

15 MEMBER RICHARDSON: Okay.

16 MR. HINNEFELD: That if we, you
17 know, we have to arrive -- part of this whole
18 process is arriving at a consistent
19 understanding of what we're doing here.

20 Because we invented this and threw it at
21 everybody.

22 But I think what you're saying is

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1 correct. If there are five years of recorded
2 dose, and there is a missing year, that we are
3 going to say it was likely, the person was
4 likely monitored because their job assignment
5 didn't change.

6 We can't see why they wouldn't
7 have been monitored. So we're going to treat
8 them as if they were monitored during that
9 year. But we don't have that recorded dose.
10 That should not be recorded here as a year of
11 recorded dose.

12 MR. CALHOUN: Right.

13 MR. HINNEFELD: It should be
14 recorded as unmonitored.

15 MR. CALHOUN: Right. And it might
16 very well be how we're, what we're counting in
17 those numbers when we're filling out the form.
18 That's what I'm thinking.

19 MR. HINNEFELD: Yes. I think,
20 yes. And I'm not, now this -- the right two
21 columns essentially is the reviewer of the
22 blind, and not the person who does the blind,

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1 or the person, of course the bridge person
2 does the --

3 MR. CALHOUN: Right.

4 MR. HINNEFELD: The reviewer goes
5 back and compares the blind to the ORAU one.
6 He's the one who completes these two columns.

7 MEMBER RICHARDSON: Okay.

8 MR. CALHOUN: Yes.

9 MR. HINNEFELD: And so that's the
10 population people then that we have to focus
11 this message to. To make sure that when we're
12 talking about recorded doses --

13 Because that is a clear indication
14 that something is different. If somebody's
15 reading six lines and somebody's reading five
16 lines of recorded dose, that would be a pretty
17 serious indicator, if it happened a lot.

18 MEMBER RICHARDSON: Yes.

19 MR. HINNEFELD: And so that would
20 be a clear indication of a clear message to
21 our reviewers then, that these mean the
22 recorded doses in the exposure record, not --

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1 MEMBER RICHARDSON: Empty pages.

2 MR. HINNEFELD: -- something. Not
3 an empty page, yes, not an, yes exactly. Good
4 work.

5 CHAIRMAN GRIFFON: Okay. Any
6 more? I mean, I think this is good. And this
7 is going to be an ongoing --

8 MR. CALHOUN: Yes, it is.

9 CHAIRMAN GRIFFON: -- part of our
10 agenda I imagine. Anything more now? Any
11 other questions now?

12 MEMBER RICHARDSON: So you were
13 working at -- I'm thinking it was one or two a
14 week was the target.

15 MR. CALHOUN: I don't recall what,
16 I don't recall. I'll get that information.
17 I don't know what our goal is. But it's not,
18 certainly not our highest priority, you know.

19 MR. HINNEFELD: I think we started
20 at two, David, and we backed up to one.

21 MR. CALHOUN: Yes.

22 MR. HINNEFELD: Because we were

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1 building up such an input on these things,
2 that in light of the other work then we backed
3 it up to one.

4 But once we have a program that
5 does something automatically, we don't go back
6 and remind ourselves very much about what it's
7 doing right now.

8 MR. CALHOUN: And then we're also
9 held hostage to some degree by the influx of
10 completed DRs from ORAU. Because ours can be
11 sitting there completed. But we can't do
12 anything with them --

13 MEMBER RICHARDSON: Right.

14 MR. CALHOUN: -- until we get in
15 so we can compare it.

16 CHAIRMAN GRIFFON: And do we have
17 access to the -- I think we asked this
18 before. Access to the database that we're
19 using?

20 MR. HINNEFELD: Well that request
21 -- I missed the last meeting I think.

22 CHAIRMAN GRIFFON: Yes.

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1 MR. HINNEFELD: Because I was, I
2 think I was traveling. And it came back to
3 me. And, you know, this is really a work in
4 progress, you know. Until we take it out and
5 assess it it's really a work in progress.

6 And I'd hate to make, you know,
7 get in the normal habit of sort of lifting the
8 skirt for the Advisory Board, and say look in
9 the internal workings. I'd rather have a
10 product here.

11 I'm not really over the moon about
12 that. I mean, I'm not over the moon about the
13 idea. I'm not steadfast in my resistance
14 against it either. If you, you know, I think
15 there's a fairly simple -- I know it's simple
16 because I don't have to do it.

17 It's a pretty simple thing for our
18 TST team to provide this application. It
19 might be easiest just to do it to all Board
20 Members, rather than this subset of the Board
21 Members. Because we have a -- you know, Board
22 Members can see certain things.

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1 And so if we gave it to all Board
2 Members it would appear on your staff tools as
3 just a blind review. And you could do that.
4 I think, I've thought about this since it came
5 up.

6 And I don't really have a strong
7 argument against that. We do want to be open
8 about stuff to a certain extent. But
9 recognizing that what you're seeing is work in
10 progress, you know.

11 CHAIRMAN GRIFFON: Right, right.

12 MR. HINNEFELD: And I think you'll
13 be able, if you see what I see, you'll
14 probably be able to see it all. You'll be
15 able to see what the progress is, you know,
16 the cases that have been selected, whether
17 they got a DR on them or not.

18 And so I guess I don't have a
19 particular problem with that. I really don't
20 know my way around the application all that
21 well. I know how to go to one thing and look
22 at the comparison.

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1 But I'll see what I can do. I'll
2 talk to our TST and see if they can do that.
3 If they can, if it's as easy as I think, it
4 should happen quickly. And we'll just send you
5 an email and let you know.

6 MEMBER RICHARDSON: I guess that's
7 all I was trying to think of, is a way they
8 look at whatever, what was it, B.1.2, or
9 whatever. Or in this instance I'm looking at
10 D.2.1. Maybe I'd like to look at that for all
11 the cases.

12 MR. HINNEFELD: You could --

13 MEMBER RICHARDSON: You know, just
14 be able to query quickly --

15 MR. CALHOUN: You can do that.

16 MR. HINNEFELD: You can't query.

17 MEMBER RICHARDSON: Oh --

18 MR. HINNEFELD: If you want to
19 query, send it to us --

20 MEMBER RICHARDSON: Oh, okay.

21 MR. HINNEFELD: -- and we'll see
22 if we --

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1 CHAIRMAN GRIFFON: You can't
2 query. Okay, right.

3 MR. HINNEFELD: We can't do that.
4 This application does certain things.

5 MR. CALHOUN: Yes.

6 MR. HINNEFELD: As a user we can
7 do certain things on it.

8 CHAIRMAN GRIFFON: Okay.

9 MR. HINNEFELD: It does not have a
10 query.

11 CHAIRMAN GRIFFON: Got you.

12 MR. HINNEFELD: Does not have a
13 query. So if you want a query, if you send it
14 to us, TST could probably do it. Our
15 Technical Support Team could probably do it.

16 MEMBER RICHARDSON: You know, one
17 thing in the long run, or a couple of things
18 is -- the cells that are being filled out with
19 the DCAS response and the ORAU response, I
20 don't know how they're doing it.

21 If this is like a -- the point is
22 that the values that are in the cells are not

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1 always consistent. Like so B.1.2 says number
2 of years of positive reported dose. It would
3 probably be better if the person just entered
4 two and two. Or, you know, entered a number.

5 But sometimes they write two YRS,
6 sometimes they write two years, sometimes put
7 the number two. So in the long run, when you
8 want to, if you wanted to do any sort of
9 analysis of that it would be better to
10 standardize those. And it could be done with
11 a drop box.

12 MR. HINNEFELD: Could be a drop
13 box, yes.

14 MEMBER RICHARDSON: And the same
15 thing with yes or no. Sometimes is Y and N,
16 sometimes it's yes. Just to make it more
17 workable.

18 MR. HINNEFELD: Pretty sure that
19 would be more work for TST, than just letting
20 you guys look at it.

21 MR. CALHOUN: Right. And I think
22 that the reason it's not just yes and no is

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1 because sometimes they leave that open so
2 there can be some commentary in there.

3 MR. HINNEFELD: Yes, yes.

4 MEMBER RICHARDSON: Or to separate
5 if there's --

6 MR. HINNEFELD: You could have a
7 separate comment field. I mean you can design
8 it for query if you want. I don't think it
9 was necessarily designed to be queried.

10 MEMBER RICHARDSON: Yes, I mean
11 right now there's --

12 MR. CALHOUN: It definitely was
13 not.

14 MEMBER RICHARDSON: Right. Now
15 there's only 19 of them. But we imagine in
16 two years --

17 MR. HINNEFELD: Right.

18 MEMBER RICHARDSON: -- there'll be
19 another 100 added in. And at some point you
20 want to summarize it maybe. But anyway, it's
21 just a suggestion.

22 CHAIRMAN GRIFFON: And again, I'm

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1 just looking through the, looking at this
2 live. But Page 29 and Field D.2.1, this is
3 certainly one that we've had come up on our
4 cases. Missed neutron dose.

5 And I think part of it depends on
6 whether you believe the worker was in an area
7 where they likely got neutron exposure, which
8 is what we've struggled with on many cases.
9 So here you got DCAS assigning 91.6 rem and
10 ORAU with none.

11 And, you know, I'm just looking at
12 the ones that jump out at me as -- I wonder if
13 there's -- even though, like you said, none of
14 these changed compensation status, it seems to
15 me that something's wrong there, you know. Or
16 maybe the guidelines are not clear enough, or
17 whatever. I don't know.

18 MR. CALHOUN: Yes. It's just
19 overestimating again, you know.

20 CHAIRMAN GRIFFON: No. It was
21 DCAS --

22 MR. CALHOUN: And I think the

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1 point of that note was, is that DCAS overly --
2 One of the notes that I have written here is
3 that DCAS was overly favorable in neutron
4 missed dose. The initial PoC was 23.32, and
5 then all ours got close to 49.

6 So it's just the degree of
7 overestimate. And I think the ORAU team is a
8 little bit more sensitive to -- if they come
9 up with an overestimate, and it's between 45
10 and 52 percent, they got to do it over.

11 CHAIRMAN GRIFFON: Well wouldn't
12 that apply to yours also? If you got 49 --

13 MR. CALHOUN: If we're
14 overestimating it, and it's less than, that's
15 really not our -- our thrust is to make sure
16 that the compensation decision is right. So I
17 see what you're saying there, you know. We
18 can certainly look at that.

19 CHAIRMAN GRIFFON: Yes.

20 MR. CALHOUN: But I don't know
21 that we would be wanting to jump into best
22 estimate cases unless we had to. So I see

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1 what you mean there. We'll talk about that.

2 CHAIRMAN GRIFFON: Yes. Okay.

3 I'm just trying to think about the goal too.

4 I mean, I know your thrust is to make sure you
5 got the compensation decisions correct.

6 But the thrust of this program,
7 this aspect of your program, I think also is
8 to make sure your DRs are as accurate as
9 possible, I guess. Or the quality is good.

10 So if you find, if you have things
11 like this that keep occurring. I'm not
12 saying, you know -- then you start to wonder
13 well, what if, you know --

14 MR. CALHOUN: I mean, but you got
15 a -- it is a degree, you know.

16 CHAIRMAN GRIFFON: Yes.

17 MR. CALHOUN: It's a gradient
18 here. Because unless that --

19 CHAIRMAN GRIFFON: Yes.

20 MR. CALHOUN: -- ten thousand
21 iteration Probability of Causation calculation
22 came up as above 50 percent, it's pretty much

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1 just as right as the other. It's just not as
2 precise.

3 MR. KATZ: But you are trying to
4 avoid grossly overestimating too. So that,
5 because of --

6 MR. CALHOUN: To some degree. To
7 some degree, you know. But everybody --

8 MR. KATZ: Sure. I see.

9 MR. CALHOUN: It's an efficiency
10 thing.

11 MR. KATZ: Right.

12 CHAIRMAN GRIFFON: I'm trying to
13 figure out why you wouldn't apply the same
14 rules to your reviewers. Going back to that
15 question about when you're reviewing it.

16 MR. CALHOUN: Right.

17 CHAIRMAN GRIFFON: If it doesn't
18 go over 50 --

19 MR. CALHOUN: That's why I said, I
20 think that something we should look at.

21 CHAIRMAN GRIFFON: Because I would
22 think that, yes. Because that might alleviate

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1 some of these things.

2 MR. CALHOUN: Right.

3 CHAIRMAN GRIFFON: If you saw that

4 --

5 MR. CALHOUN: Right.

6 CHAIRMAN GRIFFON: -- say we got
7 to fine tune or, yes.

8 MR. CALHOUN: Right.

9 MEMBER RICHARDSON: So they did
10 other things which overestimated more than
11 you. I mean, their ORAU photon assigned dose,
12 the missed assigned dose were all higher.

13 If they had taken the same step
14 with the neutron over assignment, instead of
15 assigning zero, which is what they did, which
16 I would say would be a minimal bound on this -
17 -

18 CHAIRMAN GRIFFON: Are you talking
19 about this case, David? I'm sorry.

20 MEMBER RICHARDSON: What? Yes,
21 still the same case.

22 CHAIRMAN GRIFFON: Yes, yes.

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1 Okay.

2 MEMBER RICHARDSON: Because you
3 ended up at 49 point something, with your
4 overestimating as a probability --

5 MR. CALHOUN: Forty-eight point
6 seven.

7 MEMBER RICHARDSON: -- of
8 causation. If they had taken the same
9 approach with the neutron dose that you had --

10 CHAIRMAN GRIFFON: They would have
11 --

12 MEMBER RICHARDSON: -- they would
13 have been -- Well they would have -- No.
14 They would have moved themselves into a best -
15 -

16 CHAIRMAN GRIFFON: They would have
17 sharpen the pencil, right.

18 MEMBER RICHARDSON: And they would
19 have had to do more work.

20 CHAIRMAN GRIFFON: That's right.

21 MR. CALHOUN: Right.

22 CHAIRMAN GRIFFON: Yes, yes.

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1 MEMBER RICHARDSON: And the
2 question is, they did a lot of things which
3 were little, little overestimates, in terms of
4 assigning this photon dose, for example. A
5 difference of four rem. But they did
6 something as low as possible with the missed
7 neutron dose by assigning a zero to it.

8 CHAIRMAN GRIFFON: Now that to me
9 doesn't seem -- ninety-one point six rem
10 versus none doesn't seem to be more overly
11 claimant-favorable, versus not overly
12 claimant-favorable. I mean, that's just --

13 There was one DR that the ORAU
14 person that said this person was not working
15 in there where they could have gotten neutron
16 exposure, period, I think. So that's a
17 different, I think that's a different
18 question, you know.

19 MEMBER RICHARDSON: Yes.

20 CHAIRMAN GRIFFON: If it was a
21 matter of 20 versus 40 rem, you know, I could
22 see, okay there was more claimant-

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1 favorability. But this is a case of, you know
2 --

3 MR. CALHOUN: Right. I got it.

4 MEMBER RICHARDSON: But, Mike, I
5 was --

6 CHAIRMAN GRIFFON: I mean, I'm
7 just, we're just jumping around. But, you
8 know --

9 MEMBER CLAWSON: This is on the
10 same case. But the one statement down in the
11 comment here, where it says there appears to
12 be two different versions of OTIB-18 being
13 used. Do they have a different OTIB-18 than
14 what you do?

15 MR. CALHOUN: They should not.
16 There is one approved OTIB-18 that's out
17 there.

18 MEMBER CLAWSON: Well it's just
19 this comment section down here. That kind of
20 disturbs me a little bit, to be able to see
21 that it appears that there is two different
22 ones.

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1 MR. SIEBERT: Well there are
2 different -- this is Scott. There are
3 differences in the application of OTIB-18.
4 OTIB-33 does give modifications to how you
5 apply OTIB-18.

6 Whether you're using the full
7 OTIB-18 values. Whether you're using the ten
8 percent based on somebody who is unlikely to
9 have been exposed. But we are still going to
10 overestimate.

11 So those, that may be the
12 difference here, without looking at the
13 specific case. But I can see there are
14 definitely situations where one person running
15 OTIB-18, and another would get different
16 values if they made different assumptions on
17 OTIB-33.

18 MEMBER CLAWSON: But see, looking
19 at this -- and this is Brad again. How would
20 we know that they used the other OTIB, 32 or
21 whatever you were saying.

22 MEMBER RICHARDSON: Thirty-three.

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1 MR. SIEBERT: They would be likely
2 referenced in the dose reconstruction.
3 Looking at this you would not necessarily know
4 that.

5 And this is, and I think Grady's
6 agreeing with this. This is, you know, we're
7 going to have to work together on making sure
8 that the way we're approaching the cases is
9 more consistent. So that you see the
10 information that's useful to you, if that kind
11 of makes sense.

12 MEMBER RICHARDSON: But it points
13 to another, I mean, this was another issue
14 that came up, where we had questions about
15 whether ORAU claims examiners were always
16 following the protocol of starting with a tool
17 which, a clean tool pulled from a central
18 source. That there was, that over time kind
19 of --

20 As I remember the, kind of the
21 question here. Over time modifications had
22 been made to tools. And there's the danger

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1 that someone doing dose reconstruction was,
2 had an older version stored on their PC, for
3 example. Or went back to a workbook that they
4 had used previously.

5 And that you saw, we saw things
6 which we couldn't understand how those
7 mistakes, or how those discordances between
8 the evaluations we had done, and the ones
9 which had been prepared that we were provided,
10 how those arose if there wasn't something
11 about, a question about the tool.

12 And I think that's what this
13 remark was pointing to. Brad's asking, are
14 there two different versions of OTIB being
15 used because of something that's happened?

16 MR. SIEBERT: Well, and there are
17 not. In this case this tool is very specific
18 in that there are different --

19 MEMBER RICHARDSON: Yes.

20 MR. SIEBERT: -- different options
21 within the tool that can be selected. It's
22 not different versions of a tool. There's

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1 different options of applying the OTIB-33
2 reductions or not.

3 So the tool itself is identical.
4 And it's an online tool. So it's a consistent
5 version. So it would be a selection of
6 decisions in the tool, as opposed to different
7 versions of the tool. And I'm just saying
8 this is, you know, without looking at the
9 case. But that is --

10 MR. CALHOUN: Yes. And I'd have
11 to talk to the reviewer and find out what he
12 said on that. I just --

13 MEMBER CLAWSON: On the bottom of
14 this --

15 MR. CALHOUN: Yes.

16 MEMBER CLAWSON: -- who makes the
17 comment?

18 MR. CALHOUN: It's the third
19 reviewer. We've got --

20 CHAIRMAN GRIFFON: The third
21 person to review it.

22 MR. CALHOUN: -- an OCAS HP who

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1 does the DR, we've got an ORAU person who does
2 the DR. When those come in there's a third
3 reviewer who compares those. And they fill
4 out that form.

5 MEMBER CLAWSON: Okay. Because,
6 you know, just in reading this --

7 MR. CALHOUN: Yes.

8 MEMBER CLAWSON: -- you see what,
9 why --

10 MR. CALHOUN: I do. I need to --

11 MEMBER CLAWSON: -- we're
12 questioning.

13 MR. CALHOUN: I need to talk to
14 the guys about what they write in these things
15 actually.

16 MEMBER CLAWSON: Yes.

17 MR. CALHOUN: Really. Just to
18 make sure --

19 MEMBER CLAWSON: Well I'd like to
20 --

21 MR. CALHOUN: -- that they're
22 useful.

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1 MEMBER RICHARDSON: I like what
2 they write. Don't tell them to --

3 MEMBER CLAWSON: Yes, don't tell -
4 -

5 MR. CALHOUN: I need it to be more
6 definitive. It says, it looks like there may
7 be. I don't want that.

8 MEMBER CLAWSON: Yes.

9 MR. CALHOUN: You know, I don't
10 want to argue about it.

11 MR. KATZ: Work in progress. It's
12 a work in progress.

13 MR. CALHOUN: Right.

14 MR. KATZ: Maybe it's better that
15 way.

16 MR. CALHOUN: Yes, it is, it is.
17 And so far it's, you know, it's been a fairly
18 useful tool for us to do these things.

19 CHAIRMAN GRIFFON: Anything else?
20 This is good information. I mean, it's good.
21 I think David's right. The format's good and
22 the information is good. And I think, well,

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1 deep.

2 Well this is the extent of the
3 agenda item, at least for a while, on this
4 Subcommittee, I imagine. Is there anything
5 else, David, and the Board Members, and Wanda?

6 MEMBER MUNN: No, I think you're
7 right.

8 MR. HINNEFELD: I think it would
9 be helpful actually for Board Members to have
10 access to the application.

11 CHAIRMAN GRIFFON: Yes.

12 MR. HINNEFELD: And if they want,
13 if you have time and want to spend some time,
14 rather than a Board Meeting --

15 CHAIRMAN GRIFFON: Right.

16 MR. HINNEFELD: -- to see these
17 things and highlight questions that come to
18 mind, then we could have a more meaningful
19 discussion either via email --

20 MR. KATZ: Absolutely.

21 MEMBER RICHARDSON: Yes, okay.

22 MR. HINNEFELD: -- or here.

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1 Having been forewarned about things like this.
2 I think there's some value here.

3 CHAIRMAN GRIFFON: Yes. It's
4 tough to kind of --

5 MR. KATZ: I was going to suggest
6 --

7 CHAIRMAN GRIFFON: And there's
8 seventy pages --

9 MR. KATZ: You all have seen this
10 just at the last moment. If you would give
11 this some time between now and the next
12 meeting. And then if you have access that's
13 even better.

14 But then forward me any questions,
15 issues, wishes, what have you. So that DCAS
16 can be as prepared as possible. So at the
17 next meeting you can discuss this as deeply as
18 you want to.

19 So if you provide all that input
20 to me, I'll provide it. I mean, provide it to
21 Grady and me. But at least copy me. But I
22 could sort of coordinate it all, so that they

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1 don't get peppered in different directions
2 with --

3 CHAIRMAN GRIFFON: Okay.

4 MEMBER MUNN: That would be
5 helpful. Because it was a little delightful
6 and daunting to see this on the screen for the
7 first time. Whoa, look at all this
8 information.

9 CHAIRMAN GRIFFON: Yes, yes.

10 MEMBER MUNN: And it's, it will be
11 very helpful for us to absorb it.

12 CHAIRMAN GRIFFON: Okay. With
13 that said, why don't we move to this second
14 item. Alright with everybody? Presentation
15 of a test plan for involving -- Let's see.

16 MR. SIEBERT: And I'm going to be
17 doing that. And Grady gives you a nice big --

18 CHAIRMAN GRIFFON: And now is the
19 genesis of this -- I guess I should know my
20 agenda. Can I ask, I mean, I thought we were
21 -- refresh my memory, but we had some further
22 question on your overall QA plan, right? Is

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1 this is in response to that?

2 MR. SIEBERT: This is addressing
3 portions of that.

4 CHAIRMAN GRIFFON: Oh, a portion
5 of that. Okay.

6 MR. SIEBERT: Because one of the
7 questions was --

8 CHAIRMAN GRIFFON: Because I
9 remember specifically asking for this aspect,
10 right. Did we?

11 MR. KATZ: We did ask. We
12 discussed this specifically in the last
13 meeting. And then put it on the agenda.

14 CHAIRMAN GRIFFON: Alright.
15 Okay.

16 MR. KATZ: On your behalf.

17 CHAIRMAN GRIFFON: Thanks.

18 MR. SIEBERT: Okay. Grady gives
19 you a nice thick file to look through, and I
20 give you pretty pictures.

21 MR. CALHOUN: That's what I
22 prefer.

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1 MR. SIEBERT: The first one we're
2 going to cover is the V&V of the dose
3 reconstruction tools. Actually the best
4 person to be addressing this is Keith
5 McCartney, who is our tools manager, who also
6 lives out near Hanford. So bringing him out
7 here was not the most economical.

8 However, he has been patiently
9 waiting on the phone since 5:30 a.m. his time.
10 So thank you, Keith, very much. And as we go
11 through here, if there's any questions, you
12 know, I'll address it or Keith can address it
13 as we move forward.

14 So the topics, we're going to hit
15 the general purpose of V&V, the governing
16 documents that were used, the requirements
17 documents, configuration management of the
18 tools themselves, the test plans that we go
19 through.

20 Graded approach for those tools
21 that we don't do full blown test plans on.
22 And the independent verification of the tools

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1 throughout the whole process.

2 So what's the purpose of
3 verification validation? Validation is
4 basically saying, are you building the right
5 thing? In other words, here is the widget you
6 want out the end, do you know the process you
7 need to walk through to get the accurate
8 widget, so that you can then design the tool?

9 The verification is, are you
10 building the tool correctly, when you could
11 gain the information you want, is it giving
12 you the correct answer out of the tool when
13 you're done with the tool? Your validating
14 it's, verifying that it's giving you the
15 correct answer that you were looking for.

16 The governing documents, the IEEE
17 standard is what we based our approach upon.
18 Obviously ORAU Plan 1, they got QAP. And Plan
19 26 and Procedure 94, as I said, those were
20 based upon the IEEE standard on how we started
21 developing dealing with the development and
22 methodology for software.

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1 And that's actually for the whole
2 project. And the specific V&V for dose
3 reconstructive tools, which is done with the
4 tools group and through Keith's house.

5 The requirements documents. As we
6 create our tools it's based on the imp guides,
7 the Technical Basis Documents, the OTIBs, the
8 procedures. In most cases we don't have the
9 required, right specific requirement documents
10 for the tool.

11 Because they're just
12 implementation of the actual IGs, TBDs and
13 OTIBs that already exist in our document
14 control system. It's just implementation. So
15 that we're implementing more consistently, and
16 in a more efficient manner.

17 Okay, working right through this.
18 Configuration management. We use Team
19 Foundation Server. It's a Microsoft product
20 that tracks all the tools. It's not just used
21 for all the dose reconstruction tools. But
22 it's used for all the software on our project.

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1 Basically, it works like a
2 library. When a developer wants to work on a
3 specific tool they check it out of the
4 library. And at that point no other developer
5 can pull that tool and do work on it as well.
6 Just so we're controlling our configuration
7 correctly.

8 Then when a developer's finished
9 with it, they check it back into the -- And
10 that's through all testing and so on. They
11 check it back into TFS. And then it's
12 available for all dose reconstructors to work
13 the rest of the project personnel.

14 So the test plans that we go
15 through are very intense for the ones that we
16 do full test plans for. The general sections,
17 introduction, that's pretty self explanatory.
18 What's it going to do? Why are we developing
19 this tool?

20 The testing hardware. We have
21 pretty consistent hardware across the project
22 for specific laptops that are used, operating

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1 systems, and so on and so forth. Operating
2 system we have found is actually one of the
3 huge issues that we had to deal with as we
4 migrate to new operating systems.

5 Ensuring that our tools and
6 everything else works under the same -- gives
7 us the same answer we were expecting under the
8 new operating system, as the old operating
9 system.

10 We just migrated to Windows 7. Of
11 course that means Windows 8 is out. It only
12 made sense. But we are completing the Windows
13 7 transformation on -- I believe there's a
14 few more laptops to get through, and then
15 we'll be fully Windows 7 compliant on the
16 project.

17 The prerequisites. This is
18 basically just what type of things are needed
19 for doing the tools. Some of them tie
20 directly into Excel. So you would have to
21 have the right version of Office. Obviously
22 operating systems, things like that.

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1 So we pulled that information into
2 the test plan, so that the testers know that
3 they have the prerequisite software, and so
4 on. Procedures to be tested. That's
5 obviously a pretty straightforward thing.

6 And then we list all the features
7 that need to be tested, as well as if it's a
8 totally new tool, they would list all the
9 features, obviously.

10 Then the test approach is
11 basically just walking through for the
12 testers, how they're going to be working
13 through it. How many testers there's going to
14 be. Whether there's going to be comparison
15 between testers, things like that. Just the
16 overall approach.

17 And the acceptance criteria,
18 pretty straightforward. Generally the
19 acceptance criteria is, it meets all the
20 sections of the test plan, acceptable. Pretty
21 much what you'd expect, expect for techno's.

22 MEMBER RICHARDSON: What's that

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1 mean?

2 MR. SIEBERT: What's that?

3 MEMBER RICHARDSON: So is it a --
4 Is the criteria perfection? Or is the
5 criteria something else? I mean, sometimes
6 you have tolerance levels, for example.

7 MR. SIEBERT: Well at this point,
8 when you're talking about these types of
9 tools, at this point it's talking a yes/no
10 answer. Did it give you the answer that was
11 requested --

12 MEMBER RICHARDSON: Right.

13 MR. SIEBERT: -- or not? So it's
14 basically, I believe -- and, Keith, correct me
15 if I'm wrong. But it's a yes/no, go/no go
16 correct answer or not acceptance.

17 MR. MCCARTNEY Yes. Generally
18 that is true. The only exception to that
19 would be in instances where we have a Monte
20 Carlo process. If you're looking for an exact
21 answer you're never going to get one.

22 It will be, you know, a few

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1 percent. But generally that's what -- It's a
2 yes or no answer. Is this what you get coming
3 out of the tool?

4 MR. SIEBERT: Okay?

5 MEMBER RICHARDSON: You're using -
6 - you're running Monte Carlo with using a
7 Crystal Ball add in to an Excel spreadsheet?
8 Or is, how do you implement that?

9 MR. MCCARTNEY Right now the way
10 we do it, we used to use Crystal Ball. But
11 now we are using software from a company
12 called Vose. They have a commercial product
13 called Model Risk, which is also an Excel add
14 in.

15 But for our purposes, and for us
16 to be able to program the tools in the way
17 that we need them, they've essentially created
18 a DLL file for us that does all the things
19 behind the scenes as far as simulating and
20 fitting the data. All the random number
21 generation. And so we've been using that
22 product now for a few years.

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1 MEMBER RICHARDSON: What's the
2 name of the company again?

3 MR. MCCARTNEY Vose, V-O-S-E.

4 MEMBER RICHARDSON: V-O-S-E. And
5 you can't explicitly specify a seed, and run
6 the Monte Carlo twice, and get the same result
7 out of it?

8 I mean, typically it's not a true
9 random generator. It's got a explicit seed,
10 you can run it and you should be able to come
11 up again at the same place.

12 MR. MCCARTNEY Correct. But
13 within the software we have, we are not able
14 to specify the seed. That's auto generated
15 within the DLL.

16 MEMBER RICHARDSON: And what was
17 the advantage of moving away from Crystal
18 Ball? Why did you use somebody else?

19 MR. MCCARTNEY Well Crystal Ball,
20 as that product matured, and in the newer
21 versions, they actually, for whatever reason,
22 took out functionality that we were using in

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1 our tools. So Crystal Ball became unusable
2 for us.

3 MR. HINNEFELD: The CDC computers,
4 there's a CDC computer security issue with
5 Crystal Ball as well, a security
6 vulnerability.

7 So it was not, for whatever
8 reason, it fell off of the approved software
9 list that CDC publishes for us. And I don't
10 know why.

11 MEMBER RICHARDSON: Because they
12 want to run these tools networked to the
13 outside?

14 MR. HINNEFELD: The application of
15 this specific tool didn't matter so much. CDC
16 specifies software that we are authorized to
17 use. And I'm pretty sure this is true, that
18 Crystal Ball fell off that authorized software
19 list at some point of evolution.

20 MEMBER RICHARDSON: Yes. You
21 know, like a lot of things with software --
22 Because you're talking sort of about, I mean,

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1 the verification side of this. The validation
2 is your own in house decision about what it is
3 you would like to get.

4 But the verification part, it
5 seems to me like one way that software is
6 verified is by letting there be lots of users
7 of it, who have different aims and intentions.
8 They try it out. And they provide feedback
9 back.

10 Now that's not the case, as far as
11 I know, with these tools. You hold them in
12 house. And so how do we verify them? There
13 are some software packages which are used
14 more, and some software packages which are
15 used less.

16 I know a number of people who have
17 used Crystal Ball. Other people are running
18 Monte Carlo using SAS, which is heavily
19 verified. Other people are using packages
20 which are written by, you know, group written,
21 which I myself have found problems with.

22 And so I have different levels of

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1 comfort and discomfort with different -- I
2 mean, as part of the verification process.

3 Now this -- I can see you've got a plan in
4 place for verification.

5 But it's operating within the
6 constraints of what you can do in house by not
7 disseminating out any of this, I guess is what
8 I'm saying. And now I don't know about Vose
9 at all.

10 But I mean, I just, and that's
11 probably purely my own ignorance. But I know
12 that in the world of using Monte Carlo
13 applications for arriving at solutions to
14 complex numerical problems, there are
15 different options out there for how to do
16 that. I don't know.

17 I just, you got to speak in
18 person. I found some of the things that
19 people add in to Excel spreadsheets to be sort
20 of quirky. That's not to say that all of them
21 aren't right.

22 But they tend not to be the same

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1 as those packages written by organizations
2 which focus institutionally on statistical
3 software programs.

4 MR. SMITH: This is Matt Smith.
5 Keith, could you let everyone know the process
6 that occurred when we switched over to Vose
7 and did some benchmarking against Crystal Ball
8 that was in place at the time?

9 MR. MCCARTNEY Yes, I mean, before
10 we ever -- I mean, first of all, you know,
11 going to a new product like Vose, that is for
12 what we do, I mean, it's pretty
13 straightforward. Because we just have two or
14 more distributions that we're multiplying
15 together with an end result.

16 And so that's very easy to
17 benchmark using other programs. And we did
18 that with both Crystal Ball and At Risk,
19 comparing those to our results using our Vose
20 software.

21 And so it was pretty easy to see
22 that you were going to get, you know, in terms

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1 of Monte Carlo the same results. You know,
2 you would get, you know, the same distribution
3 with the same dose, with a variance of just a
4 couple of percent. And you're always going to
5 have that variance, just due to the
6 statistical nature of the Monte Carlo process.

7 But, yes, when we did, you know,
8 use those it was definitely benchmarked
9 against other commercial products, to make
10 sure that we were getting the correct result.

11 MEMBER MUNN: Is there
12 benchmarking activity that you know of, or a
13 thesis, about the capability of the software
14 that's being used in house?

15 MEMBER RICHARDSON: Yes, I don't
16 know. No. I suppose not.

17 MEMBER MUNN: Is there something
18 that can done that can ease your concerns?

19 MEMBER RICHARDSON: You know, I
20 think the great thing would be -- there's not
21 a way that the tools can be -- are there use,
22 I mean, are there other people who would be

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1 interested in using the tools, who can try
2 them? Or is it really kept in house?

3 MR. CALHOUN: What, the dose
4 reconstruction tools?

5 MEMBER RICHARDSON: Yes.

6 MR. CALHOUN: Those are all in
7 house.

8 MR. HINNEFELD: I mean, are there
9 other people who would have an application for
10 this type of tool?

11 MEMBER RICHARDSON: I mean, that
12 was the first question. Are there people who
13 would use them? And what's the --

14 MR. HINNEFELD: I don't envision
15 who else would want to do this. Having done
16 it for ten years, why would anybody else want
17 to do this?

18 MEMBER RICHARDSON: I mean, there
19 are epidemiologists who do dose
20 reconstruction. Who take internal external
21 dose. And they use the IMBA program, for
22 example. When you have a --

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1 MR. HINNEFELD: Yes, sure.

2 MEMBER RICHARDSON: And you have a
3 version of the IMBA program, which is your
4 version of the IMBA program. Those people who
5 use the IMBA program currently pay a high
6 license fee for it. And that may be the
7 obstacle to letting them use your version of
8 it.

9 MR. HINNEFELD: Boy, I don't know
10 what the -- I really can't speak to that in
11 terms of the Vose licensing. And whether
12 there would be a cost for doing something like
13 that, or making it available.

14 But I would think that the dose
15 reconstructions we do would be considerably
16 different from a dose reconstruction that
17 would be done for an epidemiology study. And
18 that, I'm not so sure that our tools are
19 flexible enough.

20 They're not built with the idea
21 that, let's build this tool so that one of the
22 options the person has is to do a dose

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1 reconstruction like we would do for an
2 epidemiology study.

3 So I believe that -- I just don't
4 see the user population out there that would
5 have an interest in using these tools for any
6 purpose other than what we're using them for.
7 You know, we didn't try to build them for
8 epidemiology approaches.

9 MEMBER RICHARDSON: I mean, the
10 nice things is, you have the option to use the
11 tools for best estimates, as well as over
12 estimates.

13 I mean, you can specify
14 distributions around each annualized dose, in
15 a way which is at a level of sophistication
16 which is actually never done in epidemiology.
17 But it's probably, it may be a better tool
18 than those that I think that are often used.

19 MR. HINNEFELD: I think it would
20 require an overt effort on the part of an
21 epidemiologist, someone who does those
22 reconstructions for epidemiology, to say, okay

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1 if I were going to use this data set that we
2 have and an approximation of these tools, what
3 decisions would I want to put in here?

4 MEMBER RICHARDSON: Yes.

5 MR. HINNEFELD: And that, I think
6 actually it's kind of an interesting idea.

7 MEMBER RICHARDSON: Yes.

8 MR. HINNEFELD: But probably not
9 something we'll pursue on our dime right now.
10 I just don't see that as our task, you know,
11 as to what we've been trying to do with the
12 program.

13 MEMBER RICHARDSON: I mean, this
14 again, it gets to one of these things of, I
15 think the more opportunity for interaction
16 with, you know, academics who do the same sort
17 of work that you're doing.

18 If there's cross exchange it would
19 help with things it would help with my level
20 of comfort with things like verification.
21 That you have people who bring different tools
22 and evaluate the performance of these. Or

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1 different perspectives on them.

2 I don't know what all the
3 obstacles are. But I mean, I'm just looking
4 at Vose. It seems like there's David Vose,
5 and there's somebody else who are involved in
6 it. I mean, it's -- I just, I don't know,
7 yes.

8 MR. SIEBERT: Well, and one --

9 MEMBER RICHARDSON: But the whole
10 thing, the whole machinery is actually very
11 black boxy to me. And so it's, you know, and
12 it's a very, very complicated black box. And
13 so how do you verify, I mean, without having
14 people have a chance to look at it?

15 MR. SIEBERT: Well what I was
16 going to say is, one of the tools that we are
17 presently working on that's coming down the
18 road is CLL, since CLL has been added as a
19 grade in cancer.

20 And the precursor -- There's not
21 an organ of interest for CLL, since it's the
22 precursor cells to the blood. And it's moving

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1 throughout the body and into the organs.

2 Based on that we are working with
3 developing a tool for implementing the
4 methodology for assessing CLL. And we are
5 actually developing the tool under Vose. But
6 we are benchmarking it against At Risk.

7 So there are different places
8 where we are trying to do, and as we said,
9 when Vose first came on line doing
10 benchmarking against different software
11 packages as well. As we run into those
12 situations, yes, we're doing what we can to
13 work on those type of benchmarks.

14 MR. HINNEFELD: Was Daniel
15 Stancescu involved in that? He was involved
16 in that, right?

17 MR. SIEBERT: Yes, Daniel's
18 working on it, yes.

19 MR. HINNEFELD: That's our
20 statistician. I don't know if there's more we
21 can learn about and talk about more, you know,
22 of that actual activity. I think if we're

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1 interested in that, I think we might be able
2 to get Daniel down there, or Jen to speak
3 about it.

4 I don't know about today. But at
5 some other meeting we could. So it's a
6 thought. Because it wasn't, you know, this
7 wasn't, you know, we were engaged in that, in
8 that benchmarking process that we developed.

9 So we could, someone do what I'm
10 not smart enough to know much about. But it
11 wasn't something that ORAU did without any
12 oversight from our people.

13 So, yes, I don't know where else
14 to go with this. I understand your point.
15 And a broad user base with who could then
16 essentially send in bug reports, essentially.

17 MEMBER RICHARDSON: Right.

18 MR. HINNEFELD: With, you know, I
19 am familiar with that sort of approach. I
20 just don't see the user base. Because we
21 didn't build it for any purpose other than
22 this program.

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1 MEMBER RICHARDSON: Which is a,
2 you know, a strength and a limitation, right?

3 MR. HINNEFELD: Yes.

4 MEMBER RICHARDSON: It's like the
5 first, you build a car the first time.

6 MR. HINNEFELD: Yes, I guess. I
7 guess. Yes, it does provide, you know --
8 You're right. You don't have as much overall,
9 you know, world wide review of it, as you may
10 have on other things.

11 MEMBER KOTELCHUCK: And a lot's
12 riding on it. A lot's riding on it, so --

13 MR. HINNEFELD: I know.

14 MEMBER KOTELCHUCK: And that's
15 really --

16 MR. KATZ: Well do you want to see
17 the benchmarking results? Because if they're
18 using Crystal Ball and the other --

19 MR. HINNEFELD: At Risk. At Risk
20 was the CDC authorized replacement for Crystal
21 Ball.

22 MR. KATZ: If they're using, if

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1 they're benchmarking against those, and
2 they're getting the same results, where's the
3 room for concern, really? I mean --

4 MEMBER RICHARDSON: Yes, I, you
5 know --

6 MEMBER KOTELCHUCK: You worry in a
7 very complex program that both efforts can be
8 mistaken at some points. I mean, there are so
9 many different issues that come up.

10 MR. HINNEFELD: The issue is that
11 if it is particularly complex, if you're
12 dealing with a complex system you don't
13 benchmark every conceivable situation. So you
14 have -- that's the issue.

15 MR. KATZ: But that's what I said.
16 Do you want to see the benchmark testing?

17 MEMBER RICHARDSON: Well that's --
18 But the thing is, I mean --

19 MR. KATZ: The extent to which --

20 MEMBER RICHARDSON: -- he was
21 describing like Explorer. But, you know, the
22 convolution of two normal distributions. And

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1 I certainly hope that, you know, that two
2 random number generators can lay together
3 that.

4 But this, I mean, actually a lot
5 of the distributions that end up getting
6 layered one on top of the other here are so
7 complicated that it's really hard to kind of
8 think through the possibilities. And to, you
9 know, it's a hard thing to test that way.

10 MR. HINNEFELD: So then it sounds
11 like it's --

12 MR. KATZ: Part of this is just
13 sort of a limitation of the world as we have
14 it.

15 MEMBER RICHARDSON: Well it is.
16 Except that the more users there are of the --

17 MR. KATZ: Yes. No, I understand.

18 MEMBER RICHARDSON: -- who have
19 been trying things that are questionable, it's
20 --

21 MEMBER MUNN: But we don't have a
22 Dancing With the Stars audience.

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1 MEMBER RICHARDSON: No. But I
2 mean, it's actually kind of surprising. There
3 are so -- I mean, you look around the world,
4 there actually are a lot of people who are
5 dealing with uncertainties in radiation risk
6 modeling. There are some very good groups.

7 MEMBER MUNN: And the middle serve
8 the number generators generated who build a
9 workshop. So if we don't know what can be
10 done to help ease your concern it's hard to
11 give directive to the agency though.

12 MEMBER RICHARDSON: Yes. I was
13 just trying to clarify where we are.

14 MEMBER MUNN: Yes.

15 MR. SIEBERT: Okay. And where we
16 are is -- and then of course we have the test
17 suspension and resumption criteria. If a
18 tester does find an issue with the tool we
19 stop and work with the developer. And we get
20 it fixed and get back to it.

21 Test deliverables. All the
22 documentation goes along with it, input,

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1 output, all the documentation. And require
2 the coordination with other organizations.

3 Frequently we have to deal with
4 IT, obviously. Especially if it's something
5 that is production related, that we can't be
6 testing a production tool in production.

7 So we have to have a test
8 environment set up with IT. And they take
9 care of all that kind of stuff for us. And
10 then just a general listing of tasks.

11 And it's just a straightforward
12 step through of, Step One, you're checking for
13 this. You perform Step One, and here's your
14 outcome. Verify that the outcome is this one.
15 Verifying, you know, push this button and
16 verify Step Two, and so on and so forth. This
17 is a security --

18 MEMBER MUNN: Is it?

19 MR. KATZ: I don't know, it looks
20 fuzzy to me. Is it fuzzy, or is it me?

21 MR. SIEBERT: It probably is fuzzy
22 from the copy. Because if you look at the

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1 text at the top it's not as fuzzy.

2 MR. KATZ: I didn't bring my
3 glasses. That's the problem.

4 MEMBER MUNN: That's the problem

5 MR. FARVER: That is completed for
6 each tool, right?

7 MR. SIEBERT: That is completed
8 for every tool that rises to the level of
9 using a test plan.

10 MR. FARVER: Okay.

11 MR. SIEBERT: We're going to get
12 to that. And then a V&V deficiency report,
13 what the testers found if there were
14 deficiencies. And this just goes back and
15 forth between the developer and the tester,
16 until there's a verified corrected result, and
17 it's implemented.

18 This is where you were getting
19 into, Doug, the graded approach. The software
20 integrity levels. The IEEE standard has
21 various levels of integrity. The highest
22 level is if someone loses their life because

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1 of software fails.

2 Obviously we're not at that level.
3 It's very important to everybody involved.
4 But it's not at that level. So those are the
5 type of levels in the IEEE. They didn't
6 necessarily quite apply to how we were doing
7 what we do.

8 So we put together our graded
9 approach based on complexity of the tools and
10 transparency of the tools. The more complex,
11 and the less transparent, the more testing
12 that has to be gone through.

13 And for the ones where we don't do
14 a full test plan we have a Form 54. And
15 that's basically a listing of the items that
16 need to be tested. And the tester walks
17 through it.

18 And I've got a couple of examples
19 to show you, and walk through it. Just
20 because it's not as complicated as a full test
21 plan and required. Our full test plans are
22 things like the CAD process.

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1 We deal with a very, very
2 complicated and very, to use your word, very
3 black box type of tools. As soon as we pull
4 Monte Carlo out of the external tools, they
5 look really complicated. But you can follow
6 from --

7 And I know Doug can attest to
8 this. Because he's had to do it in some
9 tools. You can follow from where the input
10 is, through the steps, not matter where it
11 moves in the tool. It can be complicated
12 where it goes.

13 But where the final answer is, you
14 can actually scratch it on a piece of paper
15 and get the same answer. As long as we're not
16 going into distributions. So they may appear
17 complex and black boxy.

18 But when you go at a separate
19 piece at a time, they're not as complicated as
20 something like CAD, where you put in a number
21 and all the IMBA stuff was pulled together.

22 And then you get a final answer,

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1 which it's very difficult to verify
2 separately. So when we do this -- And this
3 is not just in the test plans, but also in the
4 Form 54s. Obviously, independent
5 verifications is a cornerstone for us. Very
6 much like peer review.

7 It's an independent reviewer is
8 going through anything that's not cosmetic,
9 like, you know, color changes and font changes
10 and things, things like that.

11 Any change we make to the tool is
12 independently verified by a qualified
13 individual, who's not the person who made the
14 changes. As I said, same as peer review.

15 Normally our independent reviewers, testers,
16 are the dose reconstruction leads for the
17 sites of interest.

18 So the Rocky Flats tool, it would
19 be the person who is in charge of Rocky Flats,
20 who would know it most intimately. Now
21 there's times we have to get that individual
22 involved in the development of the tool,

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1 because it's very complicated.

2 Such as Rocky is a great example,
3 because all the NRDB, how you deal with the
4 neutron dose reconstruction data, along with
5 the other data. What subtractions there are.

6 So we actually pull the site
7 person into the development of the tool. So
8 we have a separate individual do the testing
9 of the tool. That's after that. Let me pull
10 up --

11 MR. STIVER: Scott, before you
12 start on that --

13 MR. SIEBERT: Yes.

14 MR. STIVER: -- the last slide.
15 Do you have a kind of a generalized protocol
16 that you give to these testers? Sort of
17 trying to break it in this way using these
18 types of techniques? Or is it because each
19 site is, some of the little nuances that, like
20 you say --

21 Like with Rocky you have to bring
22 in, you know, an individual who really knows

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1 that aspect of that tool? So you basically
2 kind of let them go ahead and take charge?

3 MR. SIEBERT: Keith, feel free to
4 jump in and tell me if I'm going off
5 reservation here. But generally speaking,
6 when we're updating the tools to develop that
7 whole thing, we know what the specific issues
8 are that we're updating, and what we're
9 applying.

10 So the tester can have a list of
11 what the issues were that were updated in the
12 tool. So they can walk through each of those
13 issues, and say, okay was this correctly
14 identified? Was it implemented correctly?

15 Such as right here, I pulled up
16 Lawrence Berkeley National Lab when we did an
17 update to that. The person verifying 2X
18 missed doses is now reported as 1X. That is
19 sticking --

20 Back when we changed how we
21 recorded things, missed dose used to be
22 reported at the 95th percent confidence level

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1 instead of 50th. Once we made that change and
2 reported it, the 50th like everything else,
3 the tools had to be revised to report the
4 right value.

5 So the test will check that. And
6 then verify the exchange value frequency,
7 results in the correct LOD/2 value. Once we
8 put the LOD/2 process into place.

9 So the actual issues are listed
10 out and the dose reconstructor or the verifier
11 walks through those and verifies that they all
12 are implemented correctly.

13 MR. STIVER: Okay. Thank you. I
14 was getting at kind of the present --

15 MR. SIEBERT: Oh, wait a second.
16 Keith wanted to add something here.

17 MR. MCCARTNEY Yes. The only
18 other thing I would add is that, you know, the
19 dose reconstructor, that they've been using
20 these tools for, you know, coming up on ten
21 years now.

22 And like in the case of like the

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1 external dose tools, they really haven't
2 changed much. So the DRs are very familiar
3 with the tools. And they know where to go and
4 what things to check out when things are
5 changed within the tool.

6 And that's part of what it makes
7 it easier for the dose reconstructors is they
8 have that, you know, they're so familiar with
9 the tools.

10 MR. STIVER: Just one last thing.

11 MR. SIEBERT: Yes.

12 MR. STIVER: I would assume then
13 that each tool then has like a V&V file where
14 you keep track of all these changes and the
15 test results and all that? That's available
16 for somebody to --

17 MR. SIEBERT: Right. And that's
18 all tied into TFS, right, Keith?

19 MR. MCCARTNEY That's correct.

20 MR. SIEBERT: That's in our
21 configuration management system.

22 MR. STIVER: Yes.

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1 MR. SIEBERT: And I have a old
2 test plan here that we did for the CAD
3 program. I'm sure you probably don't want to
4 see it. But I'll throw it up, just saying
5 that we actually did it. It's 80 pages.

6 So this is what we did back in
7 2009 when we were doing verification,
8 including the CAD tool in that version of the
9 doc map.

10 And it just walks all through
11 those sections, features to be tested,
12 verification for a single radionuclide,
13 multiple nuclides, identifying the DC origin
14 factors, all the snaps.

15 MR. FARVER: Scott, so what's the
16 sequence like when a Site Profile gets
17 updated, or gets changed? How, you know, how
18 long does it take for the tool to get updated?

19 MR. SIEBERT: Keith, you want to
20 address that?

21 MR. MCCARTNEY Yes, I guess that,
22 you know, kind of depends. I mean, obviously

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1 the dose reconstructors, they're aware of the
2 new requirements as soon as the documents are
3 published.

4 And then, you know, we'll get with
5 the site leads to see if any changes need to
6 be made. And time frame is generally
7 dependent upon, you know, the workload in the
8 group and what changes can be made. For a
9 simple change, like a change in a dose value,
10 you know, those can be done, you know,
11 quickly, like an X-ray dose value.

12 But it's an entirely new process
13 then we have to implement, you know, and we
14 have to put in a new TIB-17 process for
15 applying skin dose. That's much more
16 complicated, and it will take quite a bit more
17 time to put that into a tool.

18 MR. FARVER: Okay. So you don't
19 try to make the effective date of the Site
20 Profile and the TBD coincide with the
21 effective date of the revision to the tool?

22 MR. MCCARTNEY Yes, we wait until

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1 we have a finalized document that's published
2 --

3 MR. FARVER: Right, but --

4 MR. MCCARTNEY -- before we make a
5 change to the tool.

6 MR. FARVER: -- you could have a
7 date that it's published. But then you would
8 have an effective date, when you would start
9 using it. I believe that's how it works.

10 MR. STIVER: What you're getting
11 at is how you get, coordinate the changes to
12 the TBD --

13 MR. FARVER: So you make sure
14 everyone's using the correct version of the
15 tool.

16 MR. HINNEFELD: The process would
17 be the date of the change of the tool. You
18 know, when the dose reconstruction process
19 changes would be the date, the end date of the
20 DRs you would have to consider on a PER. So -
21 -

22 MR. FARVER: Okay.

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1 MR. HINNEFELD: -- you understand
2 what I'm saying?

3 MR. FARVER: Yes.

4 MR. HINNEFELD: There may be a
5 revised version of the Site Profile. And
6 routinely, while we are revising the Site
7 Profile we know that there are revisions
8 underway on the Site Profile.

9 Sometimes we know there are going
10 to be revisions. We don't even know what
11 they're planning on being. Routinely, we
12 continue to work dose reconstructions to the
13 previous version.

14 Because the alternative is to just
15 stop. And things would stop everywhere.
16 Because so many DR, so many Site Profiles are
17 in that situation.

18 MR. FARVER: I understand. But
19 you're not working on the revisions to the
20 Site Profile, and say revisions to the tool,
21 so that they coincide?

22 MR. HINNEFELD: No, the tool work

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1 follows when we know what the final dose, once
2 we know what the final Site Profile's going to
3 be. That's when the tool work's done.

4 MR. SIEBERT: And from the time
5 that the TBD gets released until the time the
6 tool is updated, we'll handle those
7 differently depending on how much difference
8 there is.

9 I mean, if it's just some very
10 small specific changes that they made, the
11 dose reconstructors may do the work with the
12 present tool, and validate making changes
13 either in IREP, or so on. That's pretty
14 unusual for us to have to do that.

15 But if it's a minor change, we may
16 do that. Usually we'll hold off until the
17 tool is available to be used, so we won't be
18 doing dose reconstructions during that time
19 frame.

20 So when we go back and do a PER if
21 we need to, there usually will not be any
22 claims done in between that time frame. And

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1 many TBD updates don't generate that change to
2 the tool. It may be something else.

3 MR. HINNEFELD: Yes, we're holding
4 on to, for instance, Hanford non-SEC cases
5 from the last Hanford pass I was at. You
6 know, that Site Profile has to be modified to
7 essentially take out some things. Because
8 they were deemed unfeasible.

9 So we're waiting. You know, those
10 are collecting until that Site Profile is
11 ultimately revised. And then the tool's ready
12 to go, which is supposed to be next month, I
13 think.

14 MR. CALHOUN: And those cases are
15 physically dependent in NOCTS. So that they
16 can't be revised until --

17 MR. HINNEFELD: Until the tools.
18 And after case we stop those. And, you know,
19 we know what the next product's going to be.
20 And it should be a relatively limited amount
21 of time before it's ready. And so we're
22 waiting for those.

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1 MR. SIEBERT: Okay. That's the
2 V&V. That's the first one. And move on to
3 the second one. Actually, the second and
4 third are tied together, which is the
5 evolution of the peer review process for
6 documentation, and the tracking systems that
7 we've created over time.

8 CHAIRMAN GRIFFON: So this is
9 getting into the next item on the agenda,
10 right?

11 MR. SIEBERT: This is the next
12 point, yes.

13 CHAIRMAN GRIFFON: Are there any
14 more questions on the --

15 MR. SIEBERT: Sorry.

16 CHAIRMAN GRIFFON: That's alright.
17 Are there any more questions on the V&V
18 section? Alright.

19 MR. SIEBERT: Okay? Now we will
20 move on to evolution of ORAU team. So a
21 pretty picture's always worth a thousand
22 words. This is the general process we have

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1 for our QA/QC process.

2 Starting in the top left, it's
3 assigned. The dose reconstruction is
4 assigned. The DR completes it or revises it,
5 if it's a, if it came back from DOL with new
6 keys, or whatever.

7 We do an initial QC review, which
8 the last time we were together, which was
9 what, August? Part of the August presentation
10 that I put in there was discussion of the IQC
11 process, and some of the tech editing and
12 final QC that are showing up here in the
13 middle, and at the end. So I really won't get
14 specific on those.

15 But that's where we have a
16 different process that takes care of all those
17 initial and final QC type things. So once the
18 dose reconstruction is complete it goes
19 through that step.

20 And they're looking for things
21 like comparing that the IREP sheet total dose
22 meets the, is identical to the dose

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1 reconstruction report, as well as that all of
2 the documentation, everything that's in NOCTS
3 is correct, and they claim all that kind of
4 stuff as well.

5 Then we hit the peer review
6 process. It's following Procedure 59, and
7 following Form 41, which is the PR checklist
8 that is near and dear to all of our hearts,
9 because we talked about it a lot.

10 As I mentioned in the last
11 process, peer review, it's independent senior
12 dose reconstructors who are doing peer
13 reviews. Somebody who's not been working on
14 that case with the dose reconstructor is a
15 fresh set of eyes, just like we do in software
16 validation, or the same that Keith is doing
17 with the blind reviewers.

18 So once peer review is complete,
19 it goes to the center. And does it meet the
20 PR standards? If it doesn't, then it gets
21 kicked back to dose reconstruction. And we
22 just work through this nice little cycle to

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1 make sure all the errors that require
2 revisions get fixed.

3 And it goes back to the same dose
4 reconstructor to get changed. And the same
5 peer reviewer reviews it again so that we have
6 consistency in comments, and so on and so
7 forth. And then once it does meet the
8 process, the standards of the peer reviewer,
9 we get to move down through the diamond.

10 So either that means there were no
11 comments at all, or there was only feedback,
12 which means they may, the peer reviewer may
13 send a form back saying, here is how you
14 assess it. Here's another idea you may want
15 to look at.

16 It may be a professional judgment
17 difference. There's no error involved. But
18 they may make some suggestions, such as,
19 clarity of wording. This might have been
20 better handled. Here's a way to do it. Not
21 an error.

22 Or if there's an error where no

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1 revision is required, it goes back to the dose
2 reconstructor. Small things like typos, the
3 peer reviewer doesn't have to kick it back to
4 the dose reconstructor for that. They can
5 make small changes like that, as long as they
6 check with the dose reconstructor first, so
7 that they know all the changes that are being
8 made.

9 Any time we hit the no comments
10 feedback, or it's only small errors, that's
11 when it gets pushed down to the peer review
12 complete, which is also covered by Procedure
13 59, Form 42, which is the form that we
14 document and keep, that states they followed
15 the process of peer review in Procedure 59.
16 And we have that document.

17 This is where we put information
18 into the peer review feedback database that we
19 have created recently. Then it goes to tech
20 editing, as I said, final QC. And then the
21 draft DR goes over to NIOSH. And they, Grady
22 smiles because he has another one to look at.

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1 MR. FARVER: Before you leave now.

2 MR. SIEBERT: Yes.

3 MR. FARVER: What exactly do they
4 look at in the initial QC review.

5 MR. SIEBERT: Oh, boy. You were
6 here last time. We talked about this in
7 August. There's a procedure that's in place.
8 I want to say Procedure 94, something. I
9 don't remember off the top of my head. But
10 that's where they do the comparisons to make
11 sure all the IREP values are the same in the
12 report.

13 And the IREP, they'll look for
14 documentation that the names are all correct.
15 That the correct origin of interest was used.
16 Anything that they can simply compare to
17 something else that doesn't line up, they look
18 at that type of information.

19 MR. FARVER: But no one --

20 MR. SIEBERT: And that's on the
21 process in the procedure.

22 MR. FARVER: What got me going on

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1 that was that you said that they'll make sure
2 that the IREP total dose equals the total dose
3 in the DR report.

4 MR. SIEBERT: Right.

5 MR. FARVER: Yes.

6 MR. SIEBERT: Right. It's one of
7 the steps. And same thing in final QC. And I
8 know your next question is, well then how can
9 it ever happen?

10 MR. FARVER: Well let's get to
11 that.

12 MR. SIEBERT: Which is a valid
13 question. And the question -- I can't answer
14 that specifically, because they do look at
15 that information, that you check that and
16 verify it.

17 And I see -- Whenever it gets
18 returned to a dose reconstructor, as a dose
19 reconstructor manager I see the returns. So I
20 know they're doing it and they're catching it.

21 MR. FARVER: But there's a form or
22 something they check off saying they looked at

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1 it?

2 MR. SIEBERT: Yes. They follow
3 the process. As I said, there's a procedure
4 for that. And there's a form. And that's all
5 kept documented.

6 MR. FARVER: I think that's
7 happened before, where those two numbers
8 haven't matched.

9 MR. SIEBERT: Yes.

10 MR. FARVER: I don't, can't think
11 of any case offhand. But I think it's
12 happened. So if that does happen in the
13 future, you should be able to go back and say,
14 okay well you've had all these people look at
15 it. They've all checked off that it matched
16 up. But it didn't.

17 MR. SIEBERT: Right. And the only
18 thing I can't control -- And I'm not throwing
19 my client under the bus. This is all just
20 checks within our house.

21 MR. FARVER: Yes.

22 MR. SIEBERT: This is before DCAS

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1 or DOL or anybody else deals with the case.

2 So --

3 MR. FARVER: Well, I was thinking
4 of them too.

5 MR. SIEBERT: I can just state to
6 that, this is all we're covering is our side
7 of the coin.

8 MR. FARVER: Right. But then they
9 go and they look at it. And they should be
10 reviewing very similar items.

11 MR. SIEBERT: Right.

12 MR. FARVER: Okay.

13 CHAIRMAN GRIFFON: Procedure 98?
14 Is that what you said? I'm looking at the
15 transcript.

16 MR. SIEBERT: That sounds right.

17 CHAIRMAN GRIFFON: Yes, it says --
18 (Simultaneous speakers.)

19 MR. SIEBERT: Yes, it's Procedure
20 98, you're right.

21 CHAIRMAN GRIFFON: -- from Form 59
22 for the IQC. It's all out of Procedure 98, it

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1 says.

2 MR. FARVER: Procedure 98.

3 MEMBER MUNN: But 94 is the V&V
4 process for the two experiments.

5 MR. SIEBERT: That's why it
6 sounded familiar to me.

7 MEMBER MUNN: Right.

8 MR. STIVER: Scott, would it be
9 possible to get a copy of that presentation?

10 MR. SIEBERT: Sure.

11 CHAIRMAN GRIFFON: Yes, that would
12 be easy.

13 MR. KATZ: What was requested? A
14 copy of the --

15 CHAIRMAN GRIFFON: A copy of the -
16 -

17 MR. SIEBERT: Of this enclosure.

18 CHAIRMAN GRIFFON: Hey, Wanda, did
19 the Procedures Subcommittee review Procedure
20 98? I imagine you guys --

21 MEMBER MUNN: I'm not sure about
22 98. We've done -- 94's been on the Board's.

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1 98's initial --

2 CHAIRMAN GRIFFON: And take a
3 quick look at the --

4 MEMBER MUNN: -- QC, tech editing
5 and final QC of the DR reports.

6 MEMBER RICHARDSON: Just curious.

7 CHAIRMAN GRIFFON: And while she's
8 looking for that one, you used the term peer
9 review feedback form. Is that 59, I mean 41
10 or 42? One of those?

11 MR. SIEBERT: We'll hit those a
12 little bit further along here.

13 CHAIRMAN GRIFFON: Okay.

14 MR. SIEBERT: But to fill space,
15 yes. Form 41 is the checklist. Form 42 is
16 where the peer reviewer signs that they
17 followed all the things. And that's what we
18 keep as a specific record.

19 And then the peer review feedback
20 log is what we're filling out as peer
21 reviewers. So that's going into the new data
22 base for tracking our peer review comments.

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1 MR. STIVER: You've not reviewed
2 98? It's out of the system here?

3 MEMBER MUNN: No. I'm not seeing
4 findings.

5 CHAIRMAN GRIFFON: And there is no
6 Form 59, is there?

7 MR. SIEBERT: Correct. That's a
8 procedure. Fifty-nine is --

9 CHAIRMAN GRIFFON: The last
10 transcript says Form 59.

11 MR. STIVER: Just go to the
12 procedures filter. Page 2, it should be the
13 very last one. Initial QC, technical editing,
14 and final QC.

15 MEMBER MUNN: Yes, I see that.

16 MR. STIVER: Showing no findings
17 there as well.

18 MEMBER MUNN: No findings to
19 display.

20 MR. STIVER: At least none at this
21 point.

22 CHAIRMAN GRIFFON: So we haven't

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1 reviewed 98 yet?

2 MEMBER MUNN: No.

3 CHAIRMAN GRIFFON: Okay.

4 MR. SIEBERT: Good? Okay. So the
5 process. And this is what I know you guys
6 were interested in the last time we talked
7 about it, how it developed over time.

8 Back in 2003, we had an initial
9 peer review checklist. I had to dig through
10 my documents. Interestingly enough, it's the
11 first month I was working on the project. I
12 created one, and that kind of developed from
13 that point on. So we were lucky that I have a
14 copy of that originally. And it was just a
15 one-page guidance document for myself. But
16 then I shared it with the rest of the dose
17 reconstructors at the time.

18 And it was just a simple checklist
19 of verifying administrative information,
20 cancer code and diagnosis date, and things in
21 the report, things in the IMBA runs, things in
22 the IREP runs.

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1 And then generally at the end
2 checking, verifying the CATI is incorporated
3 if it was available, and verifying the OCAS
4 comments were addressed if we had a rework,
5 things like that.

6 So this is the very earliest form
7 that I could track down. I know I was
8 personally was using it, and then we spread it
9 out. So that was 2003. And if you look at
10 it, the germ of all the things that follow
11 really start right there.

12 Overestimate, underestimate,
13 verifying radionuclides, no death certificate
14 reference if the person is still alive.
15 That's a way to annoy somebody.

16 (Laughter.)

17 And it put that on there at that
18 time because -- and this is really how we
19 developed -- we don't put discussions of death
20 certificates in there anymore, because that's
21 exactly what it was. But originally DOL
22 determined the organ of the cancer of interest

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1 only from a death certificate. We had that in
2 the report, but we changed that.

3 And then in 2005, that's when we
4 created Procedure 59, which is the peer review
5 of dose reconstructions. And also Form 41 and
6 42 came along with that, which is the
7 checklist. It was issued in January of 2005.

8 And then we revised it right
9 before Procedure 59 came out. Just some
10 additional minor changes to add some things in
11 for technical review and copy edit type stuff.

12 And when the peer reviewer was
13 done, the peer reviewers would communicate
14 with the dose reconstructors and DR group
15 managers for correction purposes for the dose
16 reconstructors. And also to give the DR
17 managers information as to errors that they
18 might be seeing repeated.

19 So even though we weren't tracking
20 the specific errors on a one by one basis in a
21 database at the time, the group managers were
22 tracking with the peer reviewers, what are you

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1 seeing? And we would handle those things and
2 get that information out. So it was a little
3 less formal at the time. And then I --

4 CHAIRMAN GRIFFON: Were you
5 collecting that data anyway?

6 MR. SIEBERT: We were not.

7 CHAIRMAN GRIFFON: No.

8 MR. SIEBERT: And the checklist,
9 I'll just talk to it real quick. But I know
10 you guys have seen this numerous times.

11 MEMBER KOTELCHUCK: Some of us
12 haven't.

13 MR. SIEBERT: Oh, okay. Well,
14 these are always -- I'd be happy to show it
15 to you right now.

16 MEMBER KOTELCHUCK: Right, well,
17 you are. But could you also send that along
18 with the --

19 MR. SIEBERT: Yes, forms review.

20 MEMBER KOTELCHUCK: --
21 presentation.

22 MR. SIEBERT: Yes, Form 41.

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1 MEMBER KOTELCHUCK: That would be
2 really helpful.

3 MR. SIEBERT: Yes, I'll just send
4 you the whole thing.

5 MEMBER KOTELCHUCK: Great.

6 MR. SIEBERT: Get that over to
7 Grady. But as you see when we walk, step
8 through this, we started getting a little more
9 specific on photon, neutron, missed photon,
10 missed neutron, breaking out some of the
11 things that we were seeing in the dose
12 reconstruction reports, as opposed to just:
13 "Is external handled okay?" Checkmark.

14 Now we were breaking down these
15 specific pieces. Missed dose application,
16 IREP total external dose, and then pulling in
17 internal dose. Were all the positive bioassay
18 samples considered, all the radionuclides?
19 We've dealt with this before. IREP summary,
20 input versus summary.

21 And this is comparisons of the
22 input, the IREP input sheet, which is the

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1 Excel spreadsheet, and the IREP output sheet,
2 which comes out of the IREP program. Just
3 verification that the number of rows of
4 exposure is worked out, and so on and so
5 forth.

6 That's really something IQC does a
7 lot of that. So the peer reviewer looks at
8 that information. But it is also reviewed in
9 Procedure 98. That happens as well.

10 Is it a skin case? If it is, do
11 we have ethnicity? And is it matching in
12 NOCTS? A lung case, do we have smoking
13 history? Does it match NOCTS?

14 And then discussion on cover
15 sheets. We found this portion became rather
16 onerous to fill out. We would be spitting
17 back what the deep dose, shallow dose and
18 neutron dose for each year was. It was put in
19 here.

20 If you had a complicated case and
21 you actually needed to deal with this
22 information, you could put it in here and do

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1 the comparisons to verify it. Oftentimes our
2 tools have the information in it. So we can
3 do the comparisons within the tool itself.

4 And then the copy edit stuff. Do
5 you have the right site name, employment
6 dates, cancer description, all that wonderful
7 stuff, names, work locations, internal dose?
8 Basically, you know, the eight-page form that
9 we have. And you'll be seeing that as well.

10 So we brought that along in 2005.
11 We also brought Form 42, which is the peer
12 review declaration. This was issued the same
13 time. The peer reviewer signs and dates that
14 the peer review is complete. And it serves as
15 a record; we maintain it electronically. And
16 we have those as well. That's what it looks
17 like.

18 And it's just documenting that we
19 did Claim Number X in accordance to the
20 procedure, the revision of Procedure 59, and
21 which version of Form 41. And "to the best of
22 my ability, I determined it meets the

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1 requirements." And it's signed and dated.

2 MEMBER RICHARDSON: How many of
3 those does a person peer review a day?

4 MR. SIEBERT: It would depend on
5 the peer reviewer. You could easily do one or
6 two in a day, depending on the type of claim.
7 Some take multiple days to do, if it's a
8 complicated case.

9 Some that are relatively
10 straightforward, they may be able to do, you
11 know, five, six, seven in a day. If it's
12 something like, let's say it's an AWE, where
13 there is an SEC during the time frame. So
14 there's nothing we can assign except for
15 medical X-rays. Those are relatively
16 straightforward to peer review. So you may be
17 able to get a bunch of them in.

18 But for an actual full case, we
19 kind of work under a rule of thumb that a peer
20 review should take about half as much time as
21 the dose reconstruction took to finish.
22 Because you need to pull all the same

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1 information.

2 You may not be making the same decision making
3 process.

4 But you should still be reviewing
5 all the documentation in the DOL files and DOE
6 files, and so on and so forth. And then last
7 year, we hit the PR feedback tracking, because
8 we were discussing a lot of things in here.

9 And we decided that we want to be
10 able to start tracking that information as
11 well. A little bit better than we were, or
12 tracking it at all specifically. We
13 implemented it in June of last year.

14 We had 14 issue categories and the
15 tracking in the spreadsheet. So the log
16 looked like that last year. And those are the
17 14 categories: general external approach,
18 measured, missed external, coworker, ambient
19 medical, very generic categories to put the
20 things into. And then we pulled it into the
21 Excel spreadsheet.

22 And a couple of things -- I don't

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1 know how well you can see this. If you look
2 down at this one down here. When we switched
3 over from peer reviewers just sending a quick
4 email message saying, "Here's some of the
5 things that I saw," or "Great job."

6 Once we started using a log and
7 putting things in here, we had to work on
8 getting peer reviewers not to be as nice,
9 which was kind of scary. Because oftentimes
10 the peer reviewer would say, "You handled this
11 great. You did this fine, you did this fine."

12 And they'd put on a form, such as
13 the external approach, overestimating applied
14 correctly, doses calculated correctly, applied
15 correctly, and so on. It's great information
16 to have.

17 But the problem is, in tracking
18 peer review feedback if we're looking at just
19 generic numbers, it looks like that case has
20 one, two, three, four, five, six comments just
21 on that portion right there.

22 Whereas, all the comments really

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1 are, "Everything's great." So we had to do a
2 little bit of getting people acclimated to do
3 that. And it just continued on.

4 MEMBER RICHARDSON: So you track
5 by date. But is this tied to a case, to a
6 dose reviewer, and to a peer reviewer?

7 MR. SIEBERT: It's tied to a claim
8 number. Because we have that information. We
9 tie it to the claim number. Because
10 otherwise, you know, obviously, it's specific
11 to a claim. We have to tie it back to a
12 claim.

13 MEMBER RICHARDSON: It doesn't
14 lend itself to stepping back to see if there
15 are problems coming from a particular
16 individual?

17 MR. SIEBERT: Correct. We don't
18 tie that specifically. Because what we're
19 doing, we're tracking this information for a
20 systematic -- we're looking for a systematic --
21 -- Are we seeing systematic errors? That's
22 why we're tracking the system. So yes, it's

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1 tied to claim number, but not any individual.

2 That is --

3 MEMBER RICHARDSON: Why?

4 MR. SIEBERT: That is how we set
5 up the system. It's systematic.

6 MEMBER RICHARDSON: Can you
7 imagine problems which would arise because one
8 person working in the organization is having a
9 problem doing some task?

10 MR. SIEBERT: We wouldn't need
11 this information right here to find that out.
12 The peer reviewers let me know. As a manager
13 I know what's going on with my folks.

14 MS. LIN: So are you concerned
15 that this system should be set up as almost
16 like tied to a performance evaluation?

17 MEMBER RICHARDSON: No, you know,
18 I could imagine a report that says, you know,
19 overall quality is improving. In these areas
20 it's doing better. In these areas it's doing
21 worse. There are, we've identified -- you
22 know.

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1 This all gets back to the same
2 question of: how do you document that people
3 are doing well, that the system's doing well,
4 that there's progress every year? And I could
5 imagine multiple ways in which you would want
6 to describe that. And this is a step towards
7 one of those.

8 MR. HINNEFELD: Well, David, I
9 think with respect to your question: should
10 the dose reconstructor's name be tracked in
11 this fashion? What I probably would agree to
12 is that the person doing that reviewing will
13 know.

14 Because they know the dose
15 reconstructor that you're looking at, whether
16 it's on this form or not. They will know if a
17 particular dose reconstructor is causing
18 problems and not doing a very good job. And
19 so the personnel management aspect of this,
20 the personnel performance management aspect is
21 handled apart from that.

22 MEMBER RICHARDSON: Yes, that's

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1 great. I mean --

2 MR. FARVER: But you can also tie
3 it back to site.

4 MEMBER RICHARDSON: Yes, I was
5 thinking that.

6 MR. FARVER: See if there's
7 problems at a site, which could be in the
8 documentation, could be anything.

9 MEMBER RICHARDSON: Right.

10 MR. FARVER: Something might be
11 confusing the dose reconstructors.

12 MR. SIEBERT: At this point we're
13 not tracking at that level.

14 CHAIRMAN GRIFFON: Because it
15 doesn't jump out. If you just have a case
16 number --

17 MR. SIEBERT: Right.

18 CHAIRMAN GRIFFON: -- you don't
19 see that, yes.

20 MR. SIEBERT: Well, and once
21 again, it's not there's 400 million people
22 working on it. You know, you'll have a site,

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1 Rocky Flats, where there's really five to
2 seven dose reconstructors who are really
3 working that site, who know it very well.

4 And only a couple of peer
5 reviewers, including the site lead. So it
6 really narrows down to who sees specific
7 information. So those type of things are --

8 You know, we have had times in the
9 past where peer reviewers will say, "Okay, we
10 are seeing people misconstruing how to deal
11 with neutron dose reconstruction stuff at
12 Rocky Flats." And we've gone back and
13 corrected that.

14 But we're not tracking that
15 specifically. So still back in last year, we
16 put the database -- since we were finding the
17 Excel wasn't quite as flexible for us, we had
18 a database written for us. Put that
19 information in starting September.

20 We then put the feedback and
21 return types in the same 14 issue categories.
22 And then we started looking at the data a

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1 little bit more organically as a group.

2 And that's where, after a while,
3 we started finding that with dose
4 reconstructors, or peer reviewers making the
5 comment of "Great job, you did this," it kind
6 of skewed what our actual feedback looked
7 like. So we had to kind of nip that in the
8 bud, and look at it overall.

9 CHAIRMAN GRIFFON: Now wait, can
10 you go back to this one too?

11 MR. SIEBERT: Yes.

12 CHAIRMAN GRIFFON: The change from
13 June to September of 2011, what was --

14 MR. SIEBERT: In June, we were
15 doing it on the Excel spreadsheet.

16 CHAIRMAN GRIFFON: Okay.

17 MR. SIEBERT: That's how we were
18 tracking.

19 CHAIRMAN GRIFFON: And then you
20 went over to --

21 MR. SIEBERT: And then while we
22 were actually doing the Excel spreadsheet,

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1 while we got the database in place is what it
2 really --

3 CHAIRMAN GRIFFON: The categories
4 didn't change?

5 MR. SIEBERT: Categories, same 14
6 categories.

7 CHAIRMAN GRIFFON: All right.
8 Okay, okay.

9 MR. SIEBERT: And then this year
10 we've updated, partially in response to some
11 of the things we discussed in here, because I
12 found them very helpful. We revised it yet
13 again.

14 And now our peer review comments
15 are organized by type of return, whether
16 there's just feedback, as I mentioned before.
17 Not an error, but here's something else you
18 might have considered, or wording, or
19 something like that.

20 Minor error, which is error: no
21 return required. Maybe a typo, things like
22 that. Or error, a return is required.

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1 There's a substantive error of some sort the
2 dose reconstructor needs to fix.

3 We don't want peer reviewers
4 fixing substantive errors. Because there is
5 not another review until it gets to NIOSH.
6 And we don't want them to be that reviewer
7 that catches that.

8 So those are the three categories,
9 the types that we have, which you notice in
10 the old one it was just feedback and return.
11 We're trying to break that out a little bit
12 more. And instead of 14 categories, now we've
13 tracked it into much more specific categories.

14 This is what the feedback log
15 looks like. It's pretty generic, because you
16 fill out the comment category and the feedback
17 type. We do have a checkbox for no comments
18 whatsoever. And also a checkbox for no
19 comments whatsoever. And also a checkbox if
20 it's returned to the dose reconstructor.

21 And this information in the log is
22 placed in the database. The categories we

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1 have here, 14 didn't sound good, so we went to
2 A through J, which is one, two, three, four,
3 five, six, seven, eight, nine, ten. So we've
4 broken it into ten major categories.

5 And each of those -- actually
6 there are sub-categories involved in each of
7 those. I believe I mentioned at the last
8 meeting that we were putting this in place.

9 So with these categorizations, it
10 would be more consistent across peer reviews
11 and returns that we get from DCAS from
12 technical returns, and other returns, and also
13 comments eventually that we get from the Sub-
14 committee, things like that.

15 So we'd be a little consistent
16 across all three levels. That's why you see A
17 and B in the peer review discussion here.
18 Non-technical returns and no error
19 misinterpretation of the approach.

20 Those are really things we use for
21 when DOL or DCAS returns claims back to us.
22 So peer reviewers don't ever use those. But

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1 we wanted to have all the same categories for
2 the different types of returns.

3 Non-technical returns would be
4 there's a new cancer or things like that. And
5 then non-technical report issues, policy
6 guidance issues, that may be application of
7 the SEC, things like that.

8 Data collection issues, where we
9 see inconsistency or data's missing, or
10 additional data, things like that. Claimant
11 interview, claimant-provided documentation,
12 external, internal tools, and IREP.

13 So we'll put these categories into
14 all these sub-groups. And to give you an
15 idea, I've pulled the actual form. There are
16 sub-categories, and I will do this too. What
17 the sub-categories are for, say, non-technical
18 report.

19 Report language clarification
20 preference, typographical error, formatting
21 issue, incomplete electronic submittal,
22 references not cited, things like that. So we

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1 broke these down into smaller categories that
2 made sense.

3 Now we tried not to get into so
4 many categories that it wouldn't give us
5 information, which is a balancing act, as you
6 guys, I'm sure, all know.

7 So before I show you what we've
8 been doing with the new database, I know some
9 of the questions had revolved around: well,
10 how did you learn from the peer review process
11 if you weren't documenting it as such? So I
12 wanted to show you some of the lessons learned
13 during the PR process over time.

14 I broke it down into before we had
15 Procedure 59. So 2003 to 2005. After we had
16 that, but before we had the feedback tracking.
17 And then since we've had the feedback
18 tracking. Whether it was in the old database
19 or the new database.

20 And all I did was pull the -- I
21 talked to Joel Arana, the other dose
22 reconstructor group manager. And he and I

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1 looked at our old agendas from all our group
2 meetings that we've had. And just pulled
3 comments that peer reviewers had told us, that
4 we put in our agendas for training purposes.

5 For example, early on, we included
6 copies of all tools using the assessment. You
7 would think you wouldn't have to tell people
8 that. But, you know, in 2004 we did. We
9 copied data in the tritium tool, using the
10 Special Paste option instead of the Common
11 Paste, so we didn't overwrite the formulas
12 that are in there. The dose reconstruction
13 report should allow the peer reviewer, the
14 OCAS reviewer and other HPs to reproduce your
15 results of the assessment.

16 State clearly all your assumptions
17 and reasoning. Because we had had some peer
18 reviewer saying, "I can't figure out what this
19 person did. And it looks okay, but I'm not
20 exactly sure of the decision making process."
21 Same stuff we've dealt with here over time.

22 From 2005 through '10, after we

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1 started the peer review process, the procedure
2 itself, but before we were tracking the
3 comments. Ensure the internal/external
4 uncertainty descriptions or any uncertainty
5 section.

6 There had been quite a few DRs
7 come to PR with only external uncertainty
8 defining in the section. This, actually
9 because we had this comment from some peer
10 reviewers, we determined it was a template
11 issue.

12 So we updated the template to
13 specifically get internal uncertainties
14 instead of expecting the dose reconstructor to
15 add them as well. So it's not just in the
16 dose reconstruction process. But it may have
17 some feedback to the tools as well.

18 Read the report, read the report,
19 read the report. I love repeating things.
20 We've been seeing some wording such as "doses
21 were overestimated using efficiency methods in
22 compensable claims." Obviously, you can't

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1 overestimate a compensable claim.

2 Back in 2006, we mentioned this to
3 the DRs again. Like specifically the bottom,
4 don't assume that the template is correct for
5 your specific claim. Read it completely after
6 you're done.

7 All pretty common-sense stuff, but
8 things we were seeing in peer review that we
9 wanted to make sure dose reconstructors were
10 reminded of. Different DRs for the wrong
11 cancer organ had been cited in the report.
12 And this was a cutting and pasting issue.

13 If you look at 2007, I know we
14 discussed a lot in here, some of the cutting
15 and pasting. You know, we were trying to be
16 efficient with cutting and pasting and reusing
17 paragraphs. But sometimes, dose reconstructors
18 would miss the organ of interest in changing
19 it to the correct one. And it would, you
20 know, get to peer review.

21 This is when we started changing
22 the templates more to be fed in by the tools,

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1 and becoming a little bit more automated in
2 the process. Be extra diligent when dealing
3 with multi-cancer claims to ensure the IREP
4 sheets and summaries are correct prior to
5 submittal.

6 This came up -- I remember this.
7 2009, that's scary. I remember this. There
8 was a claim with, I believe it was 51 cancers.
9 And they're almost all skin cancers.

10 And when you're dealing with that,
11 trying to keep all the IREP sheets and
12 summaries clear and straightforward is a
13 chore. So they have a numbering process, and
14 so on and so forth.

15 And then what we've been doing
16 since, doing your own reference checks. And I
17 just basically walked an easy way for peer
18 reviewers to do an external reference check,
19 and dose reconstructors should be doing the
20 same thing.

21 This actually came down -- some
22 peer reviewers were doing this reference

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1 check. They'd print out -- and this is all
2 assessed.

3 They'd print out the final pages
4 of the dose reconstruction report that had the
5 references, and had it in their hand while
6 they were reviewing the actual dose
7 reconstruction.

8 And just check things off as they
9 ran into it, to make sure all the references
10 were there or there weren't additional
11 references in there. Pretty straightforward
12 kind of thing. But peer reviewers were doing
13 it.

14 And we figured, well, if peer
15 reviewers are doing it, let's just have the
16 dose reconstructors look at doing the same
17 thing.

18 This came up. Don't rely on a
19 DCAS return sheet, the Form 35s, to determine
20 all the issues. Always go back to the source
21 documents.

22 We ran into a couple during peer

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1 review where it came back on a Form 35 from
2 DCAS, saying there was an additional skin
3 cancer. But there was also some other changes
4 that DOL had made that weren't called out on
5 that sheet. They were in NOCTS, but there
6 were other changes. But they weren't
7 necessarily specifically called out on that
8 sheet.

9 So we just reminded DRs, as they
10 always should go back to the ANRSD, go back to
11 the DOL, DOE files, all that kind of stuff.
12 And just remind them, if it's near or after
13 the last time the claim was worked on, it's a
14 good chance it's new. Look at it.

15 And more recently we'd run into
16 this as we get more and more SECs at various
17 sites that we're dealing with. We're watching
18 the wording on overestimate language applied
19 in a non-comp claim and an SEC period.

20 Because during an SEC review, you
21 cannot do an overestimate. It's only a
22 partial. You can overestimate what you can

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1 assess. But you can't call the whole thing an
2 overestimate. We've run into this here as
3 well.

4 And as we dealt with more SEC
5 sites, we wanted to make sure that was very
6 clear to the dose reconstructors to be
7 thinking about that, as more claims ran into
8 that SEC issue.

9 MEMBER KOTELCHUCK: I don't quite
10 understand.

11 MR. SIEBERT: Okay.

12 MEMBER KOTELCHUCK: Could you
13 clarify --

14 MR. SIEBERT: Yes. I'd be happy
15 to. When a site goes into an SEC status, and
16 people who have the SEC cancers are paid, the
17 people who do not have those cancers, they
18 have different cancers, we still assess them.

19 There may be something, say
20 thorium, that we can't assess, because there's
21 not enough data. So we will state in the SEC
22 section that we cannot assess thorium. And

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1 when we do the dose reconstruction we may be
2 able -

3 Everything else we may be able to
4 use OTIB-18 to overestimate internal, say for
5 a prostate cancer, or something like that. We
6 can't call the whole thing an overestimate.
7 Because the SEC clearly states we can't
8 overestimate thorium, because we can't bound.

9 So we have to be very careful with
10 our wording that it's a partial assessment. It
11 may overestimate everything we can assess.
12 But it doesn't overestimate the whole case.

13 MEMBER KOTELCHUCK: Thanks.

14 MR. SIEBERT: Sure. It's not
15 necessarily straightforward thinking here.
16 And the last thing I want to do, and I'll
17 leave it to you if you want me to run through
18 a couple of the reports on the live version.
19 Do you want to take a break beforehand? Do
20 you want to --

21 CHAIRMAN GRIFFON: Yes. Why don't
22 we -- I think it's a good break point.

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1 MR. SIEBERT: Okay. It shouldn't
2 take too long. But in case there's questions.

3 CHAIRMAN GRIFFON: Let's take --
4 back at quarter of? You can digest this, and
5 then be ready for the live version.

6 MR. KATZ: I'm putting the phone
7 on mute. And I think, Dr. Poston, have you
8 been with us? He had a class to teach earlier
9 this morning, which was why he missed it, but
10 he was supposed to be on the list about
11 quarter past nine.

12 (Whereupon, the meeting in the
13 above-entitled matter went off the record at
14 10:33 a.m. and resumed at 10:53 a.m.)

15 CHAIRMAN GRIFFON: So Scott was
16 about to take us live.

17 MR. SIEBERT: Live, large, and in
18 charge. This is what we have as the live
19 version of our database for our PR Comments.
20 Since we've just created the new one with all
21 the categorizations, it's only been live since
22 mid-September.

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1 And we've been building the
2 different reports, and so on and so forth. So
3 everything I'm going to show you is what we've
4 done so far. And we're still coming up with
5 ideas of things that's useful, and so and so
6 forth.

7 So that you have an example of a
8 relatively reasonable period, we actually went
9 back into the old comment database, pulled all
10 the comments from August 1st, through the
11 beginning of September when this went live,
12 and back-fitted those to the new categories,
13 so that we'd have August, September, and
14 October. We'd have a full quarter for you
15 guys to see here. So I'll pull up the detail
16 report.

17 And this is what it'll look like.
18 We can pick our time frames, our dates, and so
19 on and so forth.

20 But this is just pulling in our
21 data into specialist, puts this in and puts in
22 the claim number, the version, the date that

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1 the peer review was completed, the type of
2 comment, category, description, and a little
3 bit of text as to what the actual comment is.

4 And it's all the stuff that's off that other
5 form that we discussed. So it's not really --

6 MEMBER RICHARDSON: So you've got
7 multiple lines per signing?

8 MR. SIEBERT: Correct.

9 MEMBER RICHARDSON: And the next
10 column, what's that mean, the version --

11 MR. SIEBERT: The version and
12 revision are: the version is the last time it
13 went over to DOL. And the revision is the
14 last time it went over to NIOSH.

15 From our point of view, you can
16 have a Rev 0, which means it's never been to
17 NIOSH for review, and it's never been to DOL.
18 Or we may actually have a Revision 1, Version
19 0, Revision 1, where it has not gotten to DOL
20 yet. But NIOSH had a comment for us.

21 And we have a new revision that we
22 made that comment, we made that change. And

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1 then it's approved and goes to DOL. The next
2 time DOL returns it to NIOSH, it becomes
3 Version 1.

4 MEMBER RICHARDSON: So the next
5 claim there went to NIOSH five times?

6 MR. SIEBERT: It may have gone
7 back and forth five times.

8 MR. HINNEFELD: Now on that --

9 MR. SIEBERT: Maybe.

10 MR. HINNEFELD: Yes, that's a
11 function of our system. Version and Rev are a
12 functions of our system. So when you go above
13 Version 1, that means DOL has returned it to
14 us.

15 So in other words, we have sent
16 DOL Version 1. They returned it to us and it
17 becomes Version 2. So when we send it over to
18 ORAU, we get it back. We send it to ORAU.

19 That increments that revision, the
20 first one. So it's not like it's been back
21 and forth. They're probably on their second
22 time preparing it back to us. Because --

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1 MR. SIEBERT: You won't see
2 versions to Rev 0.

3 MR. HINNEFELD: Those revision and
4 version numbers are incremented by tasks in
5 NOCTS, as the claim is manipulated through
6 NOCTS. And since a Version 2, or higher,
7 comes to us first, and then we send it back
8 through this system over to ORAU, that
9 increments the revision at that point.

10 So don't put a lot of stock in
11 revision numbers for higher versions. It's
12 not like it's been back to us five times.

13 MEMBER KOTELCHUCK: Right. So it's
14 one, three, five, seven.

15 MR. HINNEFELD: Something like
16 that.

17 MEMBER KOTELCHUCK: And 2.1 means
18 that you sent it over, or they sent it over,
19 and you're awaiting action.

20 MR. HINNEFELD: Yes.

21 MEMBER KOTELCHUCK: The first
22 number --

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1 MR. HINNEFELD: 2.1 would be our
2 movement to them.

3 MEMBER KOTELCHUCK: That's right,
4 your movement.

5 MR. HINNEFELD: Because Version 2,
6 that's the first movement in the system, is us
7 to them.

8 MEMBER KOTELCHUCK: Good, okay,
9 thanks.

10 MR. HINNEFELD: I think. I'm not
11 entirely sure of the incrementing. But the
12 incrementing is off on the higher versions
13 because of that earlier step.

14 MEMBER KOTELCHUCK: Yes, okay.

15 MR. CALHOUN: And so many things
16 can cause that to go up.

17 MR. HINNEFELD: Yes.

18 MR. CALHOUN: Whether it's a
19 modification or a re-work from Labor. Labor
20 drives more of that than we do.

21 MR. SIEBERT: And then from that
22 point, let's look at some of the overall.

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1 These are percentages of the types
2 of comments we've had in peer review over
3 time, on a monthly basis: August, September,
4 October, and we're in the middle of November,
5 almost finishing that up. We see the key down
6 there. And right at the top is the error
7 return, which means there was a substantive
8 error that needed to be addressed by the dose
9 reconstructor. And this would represent a
10 specific claim.

11 Yellow means it had feedback, and
12 at least one error that didn't necessarily
13 necessitate return to the dose reconstructor.

14 The green ones are feedback only.
15 It means there were no errors, but they may
16 have had a comment of some sort. And then
17 blue is: there were no comments whatsoever.

18 So the reason we put this together
19 like this is: if you look at blue and green
20 together, basically, those are the ones where
21 there's no errors whatsoever. This is on a
22 percentage basis.

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1 And red are the ones where we need
2 to look into it a little bit more. But over
3 time, and obviously we have a very small
4 selection for the Supporter Plus. But we're
5 working on getting people understanding the
6 process and working through it.

7 So for the overall error rate, it
8 seems to be coming down. But once again, with
9 a quarter's work, it's hard to really say what
10 you're really seeing.

11 We did that on a percent basis.
12 And we also did it on a total basis. So this
13 would be action by number of claims, as
14 opposed to percentages breakdown, same color
15 in the scheme. So we can track that, based on
16 if we have more claims less than, so on and so
17 forth.

18 MS. LIN: Is there a reason why
19 you didn't have it in a pie chart?

20 MR. SIEBERT: Because pie charts
21 were making me too hungry. Because we save
22 the pie charts for fun stuff.

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1 (Laughter.)

2 MR. SIEBERT: And this one right
3 here -- let me make this an actual full
4 quarter. So starting August 1st, and I think
5 the weekend of October, okay.

6 These are all the Level 1
7 categories, the major ten categories that we
8 were talking about. As you can see -- as you
9 probably cannot see, but the green -- and it
10 looks really pretty and green on my screen.

11 The gross olive green up there is
12 the non-technical report issues. And as you
13 can tell, that's the lion's share of things
14 that we're seeing. Then the policy guidance
15 issues, data collection issues, so we can
16 really focus in and see where the largest
17 amount of comments are coming.

18 And when we pulled the old
19 database, we don't have the reports for that
20 online any more, but when we pulled the old
21 database it was almost always identical, that
22 most of the comments were report-type

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1 comments, misspellings, typos, wording.

2 And it may be numbers need to be
3 corrected and things, but specifically in the
4 report. So that's where we're finding most of
5 the issues.

6 And then, if we want to drill down
7 a little bit further into reports, we can pull
8 down -- let me get the date range. We can
9 drill down here at the Level 2, the next
10 levels down, for the technical reports.

11 And this shows that the majority
12 of them are report language clarification
13 preference. Maybe the use of the glove box
14 factor could have been explained a little bit
15 better. So they made a suggestion on how to
16 make that wording, things like that. So once
17 again, the lion's share is language and
18 clarification, preference type stuff.

19 CHAIRMAN GRIFFON: Well, this is
20 Level 2.

21 MR. SIEBERT: Yes. This is
22 pulling down the next level under non-

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1 technical reports.

2 CHAIRMAN GRIFFON: And can you
3 just show us one of the other ones, like
4 internal dose or external dose?

5 MR. SIEBERT: Sure.

6 CHAIRMAN GRIFFON: One or two.

7 MR. SIEBERT: Here's internal,
8 there's Pac-Man. And the green is, Number 3
9 is: "incorrect DR methodology used for
10 determining dose."

11 And then there's actually a
12 breakdown under those. Internal and external,
13 there's additional levels which we didn't
14 drill down to pulling these in the charts.
15 Because there was not enough information to
16 really be relevant. But we can pull it if we
17 need to. But we didn't do that.

18 CHAIRMAN GRIFFON: Just out of
19 curiosity -- oh, you don't have that on the
20 charts like that. I was just curious what the
21 next levels were, below like this level.

22 MR. SIEBERT: Like what they

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1 represent, what would be the options?

2 CHAIRMAN GRIFFON: Yes. What are
3 the categories for that? That was on your
4 sheet before, I think.

5 MR. SIEBERT: Yes. That's okay.
6 I can pull that up here. So for internal,
7 under three, there's internal fitted dose,
8 missed dose, unmonitored, and environmental.
9 So any of those would be rolled up into three.

10 And the same thing for external.
11 Here we broke it down into photons, neutrons,
12 shallow, and then measured, missed, coworker,
13 ambient, and medical X-ray.

14 So, as I said, a work in progress,
15 but I believe it's starting to generate the
16 information that we're wanting to see.

17 Now it looks like external, it's
18 more spread out. It's not one specific thing
19 that's really dominating everything. We see
20 the light blue. Medical X-ray dose.

21 And sometimes we'll see that,
22 honestly, in a time where we're changing

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1 processes. For example, during this time
2 frame -- and that may be what a lot of this
3 medical X-ray dose stuff is -- during this
4 time frame is when DCAS gave the official word
5 to us that we were going to start using best
6 estimate information for medical X-rays, and
7 zeros for missed dose for badging, for
8 external.

9 MR. CALHOUN: As a result of this
10 meeting?

11 MR. SIEBERT: As a result of this
12 meeting. So when we implemented that, claims
13 that were presently in the process, a lot of
14 those got kicked back to the dose
15 reconstructor to change that to meet that
16 requirement.

17 So some of these may be a process
18 issue that we're dealing with at that time, so
19 we'll have to drill down and get the
20 information on that.

21 MEMBER KOTELCHUCK: Do you correct
22 organ selected? There seems to be a large

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1 category.

2 MR. SIEBERT: It's this one right
3 here.

4 MEMBER KOTELCHUCK: Oh, I'm sorry,
5 no, no, the one above it.

6 MR. SIEBERT: This one right here,
7 that's the medical X-ray.

8 MEMBER KOTELCHUCK: Okay.

9 MR. SIEBERT: I'd like everybody
10 to look at my screen over here. Yes. This is
11 the OTIB-5 organ selection.

12 MEMBER KOTELCHUCK: Okay.

13 CHAIRMAN GRIFFON: OTIB-6.

14 MEMBER KOTELCHUCK: That's good.

15 CHAIRMAN GRIFFON: Five?

16 MR. SIEBERT: It should say five.
17 It does say five. It's just hard to see. And
18 then DR methodology for photons and breakdown.

19 So this is, as I said, since it's
20 only been in progress for the last quarter, I
21 know Joel and I are really starting to start
22 to dive into this, to see where these kind of

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1 things are. So I think it's been very
2 helpful. It's good for us, kind of tracking
3 these type of things.

4 MEMBER RICHARDSON: One of the
5 things that jumps out, I guess from the
6 histograms, is 50 percent of the issues or so,
7 maybe more, are communication, language
8 issues, it seems like, where you were --

9 MR. SIEBERT: Report issues.

10 MEMBER RICHARDSON: -- report
11 issues. And it's almost like there's two
12 flavors of issues. There are types of issues
13 where maybe you would like a senior
14 experienced dose reconstructor to focus their
15 time on.

16 And then there's the type of
17 issues they're probably not the best suited
18 to -- in a way, they might be. But also a
19 communications specialist or a technical
20 editor could also go through and see whether
21 the information's consistent between two
22 things and whether the language is expressing

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1 clearly, flagging places where there's
2 complicated language, where it could be
3 clarified.

4 MR. SIEBERT: And the technical
5 editors would obviously technical edit it,
6 they do that type of review as well, after the
7 peer review process, which is part of
8 Procedure 98. So there's another level of
9 looking at that.

10 But we still have the peer
11 reviewers working through that. Because a
12 technical editor may understand the wording,
13 what might be more eloquent wording.

14 But they may not necessarily
15 understand the full technical knowledge of
16 what the thought process is behind it, such as
17 when you're talking about NRDP, or --

18 MEMBER RICHARDSON: You have lots
19 of things flagged there that seemed like
20 spelling issues, right? Weren't those --

21 MR. SIEBERT: Yes, there were some
22 in that area, non-technical issues. You'll

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1 see some of those. He/she.

2 MEMBER RICHARDSON: Right.

3 MR. SIEBERT: Things like that.

4 And that seems to be the majority of what you
5 run into.

6 MEMBER RICHARDSON: Yes. I was
7 just wondering if there was a way to save
8 their brains for the hard stuff.

9 MR. SIEBERT: Well, the process we
10 have in place right now is very organic. The
11 peer reviewer and the dose reconstructor are
12 intimately involved with the full part of the
13 case.

14 So I would hesitate to say, to
15 peer reviewers, "Don't look at wording." But
16 once again -- and this is something I've
17 realized over the last week and haven't had a
18 chance to have our IT folks put in yet -- I'd
19 like to look at, say, that big olive green
20 color right there, how many of those were
21 feedback and how many of those were errors?
22 Typographical errors versus wording

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1 suggestion.

2 We haven't pulled out recording
3 that yet. And we're going to look at it, and
4 we're going to pull that kind of thing out.

5 Because every technical writer is going to
6 have a slightly different style.

7 And realistically, some peer
8 reviewers are better writers than some dose
9 reconstructors, and vice versa. So those are
10 the kind of things that we can, those fall
11 under feedback.

12 But we can cull those out and look
13 at them. And if there is some wording that is
14 more eloquent, we may be able to pull that
15 into the template, and use that as such. So
16 we're looking at that kind of stuff as well.

17 But I'd be afraid to have the peer
18 reviewers not look at the whole report as an
19 organic portion. Their brains can handle it.
20 We'll spoon water over them to cool them off.

21 (Laughter.)

22 And that's basically how we're

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1 looking at that. We're breaking those kind of
2 things down. I pulled out, I'm not sure how
3 helpful it is yet, but one of the things I
4 wanted to look at was an average number of
5 comments per period.

6 So over each of those months, like
7 in August, there was about a little over 0.6
8 comments per peer review. So it's just -- the
9 total number of peer reviews that were done is
10 the denominator. And the total number of
11 comments that we had is the numerator for
12 this, straight out.

13 And we kind of look at: are there
14 trends that we're seeing? More comments, less
15 comments, things like that. Once again, I
16 don't have them pull it out by feedback and
17 area. We're looking at doing at that.

18 Let's see what else we put in
19 here. Peer review comment logs, where there
20 were no comments at all by month. So it's an
21 increasing number. And I flagellate the PRs
22 to make sure it's not because they're being

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1 lazy, but because they're not finding as much.

2 So those are the kinds of things
3 we're looking at. And as I said, as Joel and
4 I see how useful the data is, what we can pull
5 out there to be pulled into the reports, and
6 so on.

7 But I have found it very helpful
8 already. So it's good. And that's where we
9 are with the live comments tracking and
10 recording. And that's everything that I have,
11 and then some. Any comments, questions on
12 that?

13 MEMBER CLAWSON: Scott, this is
14 Brad. I think you hit on it, but you've kind
15 of found this a little bit useful, too,
16 haven't you?

17 MR. SIEBERT: Sure.

18 MEMBER CLAWSON: Being able to see
19 where everything's kind of laying out?

20 MR. SIEBERT: Oh, yes. I have
21 found this helpful, sure. Having additional
22 data, as long as we have the resources and our

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1 client wants us to devote the resources to
2 that, is very helpful. And we're happy to do
3 so. So, yes.

4 To tell you the truth, so far, and
5 like I said, with a quarter's worth of
6 information, I haven't seen anything that
7 surprised me.

8 As I said, from the old versions,
9 and even before we started tracking, we knew
10 that wording was usually the largest issue
11 that we ran into.

12 And we fixed things. We had
13 information from peer reviewers that we
14 amalgamated and gave to the dose
15 reconstructors during our meeting. So nothing
16 is a really huge surprise to me. But it has
17 been good to narrow in on some more specific
18 things.

19 MEMBER KOTELCHUCK: It's
20 satisfying to see the changes. And at least
21 Board people can see what you believe was the
22 case.

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1 MR. SIEBERT: Right.

2 MEMBER KOTELCHUCK: Which is
3 important.

4 MR. SIEBERT: And that's it for
5 me.

6 CHAIRMAN GRIFFON: And I'm just
7 thinking: where does this Subcommittee go with
8 this? I think this is useful. The one
9 thought I had was, when you gave your
10 presentation, that all those pieces everyone
11 just can look through the categories
12 themselves and see if you have any feedback in
13 that regard. But I think the real powerful
14 thing is to see in a year or whatever --

15 MR. SIEBERT: What the trends --

16 CHAIRMAN GRIFFON: -- what kind of
17 trends you'll have. Yes, yes.

18 MR. SIEBERT: And for the
19 categories --

20 CHAIRMAN GRIFFON: The sub-
21 categories --

22 MR. SIEBERT: We tried to pull the

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1 categories and make them line up with SC&A's
2 categories somewhat, as much as we could.

3 Because we wanted to tie that process in down
4 the road as well. So we're trying to be much
5 more organic with the whole process.

6 MR. KATZ: So again on this, if
7 you have Subcommittee Members or SC&A staff,
8 whatever, but if you have comments on
9 categories or sub-categories, if you'll at
10 least copy me, I'll make sure that they all
11 get to DCAS.

12 MEMBER KOTELCHUCK: On the other
13 hand, if we make too many changes in your
14 categories, then you can't track them.

15 MR. SIEBERT: Yes, please put some
16 thought into: what changes do I want to
17 change?

18 MR. KATZ: And here we're at the
19 outset, so --

20 (Simultaneous speakers.)

21 MR. SIEBERT: If there's something
22 huge missing.

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1 CHAIRMAN GRIFFON: Right.

2 MEMBER KOTELCHUCK: It may be
3 worth the comments coming in at the end of the
4 year.

5 CHAIRMAN GRIFFON: And I would
6 ask, not only for Subcommittee Members, but
7 also SC&A --

8 MEMBER KOTELCHUCK: That's what I
9 said.

10 CHAIRMAN GRIFFON: Oh, I didn't
11 hear you say that, okay. Just like Scott
12 said, to look at what you're looking at and
13 compare it to their categories, and see if
14 there's any glaring -- you know, if they're
15 going to work well together, and if there's
16 anything missing. I think you can probably --

17 MEMBER KOTELCHUCK: Like I said, I
18 think you need to stick with these categories
19 --

20 CHAIRMAN GRIFFON: Right.

21 MEMBER KOTELCHUCK: -- even if
22 there is disagreement, you could do better if

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1 you did, or added this, that you should stick
2 with these for a while so that you can see the
3 trend.

4 MR. SIEBERT: Right.

5 MEMBER KOTELCHUCK: And then make
6 a change-over after a year, and then do the
7 changes. And then you won't have this year to
8 compare -- then it could be comparable with
9 this year.

10 MR. FARVER: Would it be helpful
11 to see like a side-by-side comparison, so you
12 just know who's looking at what? Would that
13 be --

14 CHAIRMAN GRIFFON: What do you
15 mean side-by-side?

16 MR. FARVER: Well, in other words,
17 you take their items that they're looking at,
18 and you have the items we're looking at.

19 CHAIRMAN GRIFFON: You're looking
20 at, right.

21 MR. FARVER: If we just put it
22 together so you can kind of see and compare

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1 the things that they're looking for and what -
2 -

3 MR. KATZ: No, you don't need to
4 do that. If you have comments, though, about
5 suggested categories, provide them.

6 MR. STIVER: You can do additional
7 breakdown and look at how that might be
8 useful.

9 MEMBER MUNN: They look pretty
10 well thought-out to me.

11 MR. STIVER: Yes, they look really
12 good.

13 MEMBER RICHARDSON: So, Doug, when
14 you were saying what you look at, you're
15 talking about SC&A's reviews?

16 MR. FARVER: Yes. Our checklist
17 for Table 2, I believe.

18 MEMBER RICHARDSON: Yes, Table 2.

19 MR. FARVER: And really, not to
20 say that one is better than the other, just to
21 show you what is alike and what is different.

22 MEMBER RICHARDSON: The other

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1 thing that I was thinking is: the side-by-side
2 comparison is -- in a year's time NIOSH will
3 have 50 or 70 of the blind reviews that have
4 been randomly sampled.

5 And you'll have identified places
6 where there's more or less concordance or
7 places where there's disagreements. And
8 you'll have a report of what you found
9 internally through the peer review process.

10 Because I'm thinking there's two
11 ways that you may flag things that go back to
12 your peer review. One is more things may be
13 flagged because there's more problems there.

14 Another one has more things maybe
15 flagged on areas that the peer reviewer tends
16 to focus more on. So NIOSH's review is
17 looking at what's passed through, and fallen
18 through the cracks, and the peer reviews have
19 not picked up, I assume.

20 And to see whether those
21 categories are categories where there's
22 chronic problems where there's a lot of

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1 problems coming in to the peer reviewer -- and
2 they're calling out most of them, but not all
3 of them -- or whether it's simply a category
4 or problem that the peer reviewers aren't
5 focusing on at this time, and they're coming
6 through and ending up on NIOSH's desk.

7 So to the extent that you can set
8 those side-by-side, I think it might
9 understand where, in the flow, those are
10 coming from. Stu, are the categories such
11 that that sort of comparison could happen?

12 MR. HINNEFELD: Well, I'd have to
13 actually go look. Our blind review list
14 follows relatively close to SC&A's dose
15 reconstruction review checklist. So it
16 follows pretty closely to that. I think you
17 could make some approximations. But I don't
18 know exactly if it's --

19 MEMBER RICHARDSON: No. I don't
20 think it has to be like everybody uses the
21 same tool, but to try and figure out the story
22 about how are things ending up that you're

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1 finding them in blind reviews?

2 MR. HINNEFELD: If we find
3 something here, it might be interesting to see
4 what the peer review history of that case was.
5 I'll leave that to Grady.

6 (Laughter.)

7 MR. HINNEFELD: I think that would
8 be something we could use, to go back and
9 study -- or on a case we commented on. It
10 will not go in a blind review, but we would
11 re-review or we make a comment on the case.
12 What has the peer review missed here?

13 CHAIRMAN GRIFFON: Okay, anything
14 else on this issue?

15 I think really the only action
16 going forward is if we have any major
17 comments, get them to Ted now, or as soon as
18 possible. And then, occasionally, I think we
19 should ask for an update on the Subcommittee.

20 MEMBER RICHARDSON: I think it's
21 great, though. You can sort of imagine this
22 as being where you've got a series of gates in

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1 place. And we're collecting information on
2 those and seeing where are these problems that
3 we've been seeing, tracking them back, and
4 seeing where there could be an intervention in
5 the peer review process early on at ORAU to
6 catch those before they go out the door.

7 CHAIRMAN GRIFFON: Yes.

8 MS. LIN: Mark, couple of things.
9 So Scott's presentation has a lot of lessons
10 learned. And those are really the business
11 information of ORAU, after ten years of
12 experience as DCAS contractors.

13 So even though we're in the public
14 meeting, I think the Board Members and SC&A
15 and people around the table listening in
16 should be conscious about who they talk about
17 this information to -- to whom they distribute
18 this information, or to whom they talk about
19 this information. Does that make sense?

20 CHAIRMAN GRIFFON: Yes.

21 MS. LIN: And the second piece of
22 that is: it's great that SC&A and the Board

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1 get to look at ORAU's work process. But then
2 keep in mind that the agency still has to
3 direct the work of ORAU.

4 And all the comments, all the
5 revisions, whatever, still has to come from
6 the client, which is DCAS. And obviously the
7 agency would need to think about the resources
8 that they need to spend --

9 CHAIRMAN GRIFFON: Yes, right.

10 MS. LIN: -- to accommodate the
11 changes to the Board wanted to make.

12 CHAIRMAN GRIFFON: That's a good
13 point. We're not advising ORAU, really, we're
14 advising NIOSH. So, yes.

15 MS. LIN: Exactly, so just keep
16 that in mind while you're making your
17 suggestions.

18 CHAIRMAN GRIFFON: Okay, right.
19 That's fine.

20 MR. KATZ: And I'll be sending
21 what comments I have to Grady, not to Scott --

22 MR. SIEBERT: I get everything

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1 from Grady.

2 MR. KATZ: -- about how to
3 dispense.

4 CHAIRMAN GRIFFON: Okay, with that
5 legal advice, I think we can talk about the
6 next item before lunch here, at least one
7 item. SC&A blind reviews.

8 MR. STIVER: Okay, that was ours.
9 And Kathy Behling is on the line. She is the
10 author of the blind DR reviews, and also the
11 comparison that we recently submitted as our
12 Methods A and B in comparison to NIOSH's
13 methods. So Kathy, if you would like to lead
14 out the discussion on that.

15 MS. BEHLING: Okay. Let me just
16 tell you, the file was -- the date that we
17 sent this data out was on Tuesday, November
18 20th. Last Tuesday, we sent the file to
19 everyone, hopefully.

20 And I will give you a portion of
21 the title: Draft SC&A-TR-DDR2012, and then the
22 case number. We also included in that file or

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1 in that email, the actual first blind dose
2 reconstruction review.

3 Now, SC&A started, we were tasked
4 with doing two blind DRs. And I actually went
5 and made a comparison of two independent
6 methods that SC&A used.

7 Method A used all of the same
8 information and spreadsheets that NIOSH uses.
9 And Method B was more of a manual, should I
10 say, practical approach. We still used all of
11 the Technical Basis Documents. But we didn't
12 use DR tools and that type of thing.

13 Now, I'm going to ask the question
14 as to whether you would like me to go through
15 each element of the doses, the reconstructed
16 doses.

17 I was not one of the dose
18 reconstructors for either Method A or Method
19 B. And I'm independently looking at this
20 comparison and comparing Method A and B to
21 NIOSH's methods.

22 So I guess, Mark, I need to ask:

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1 would you like me to go through each of the
2 elements of the internal and external doses,
3 or do you want me to go to the summary and
4 bottom line issues?

5 CHAIRMAN GRIFFON: Well, maybe
6 just give us the summary first, Kathy. And
7 then maybe we can go back, if we have
8 questions on the -- when you talk about the
9 line by line, that's on Page 5 of this file.
10 Is that correct, Table 1-1?

11 MS. BEHLING: Yes. And I'll give
12 you a brief overview.

13 CHAIRMAN GRIFFON: Yes.

14 MS. BEHLING: Table 1-1 is a
15 comparison of the recorded and missed
16 externals, and we'll go into this. One of our
17 methods, Method B, also assessed a potential
18 skin contamination dose for this case. We also
19 looked at -- everybody agreed that there was
20 an unmonitored period of employment.

21 And each of the two SC&A methods
22 and NIOSH calculated a monitored dose based on

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1 coworker model. They also calculated an
2 occupational medical dose and internal dose.

3 And this particular case, there
4 were several skin cancers. I'll be a little
5 bit vague on some of the details, just so that
6 I don't cross over any lines here.

7 But in this particular case, there
8 were several skin cancers. And we also
9 calculated a red bone marrow dose for a bone
10 cancer.

11 I will also just point out to you,
12 on Table 2-2, which is on Page 8 of our
13 report, is a comparison of the different
14 assumptions and parameters that were used by
15 the different methods.

16 Overall, the dose reconstruction
17 method, SC&A's Method A used the best estimate
18 approach. Method B is what they considered a
19 reasonable claimant-favorable approach. And
20 NIOSH, at least in the up-front information,
21 indicated that their approach was more over-
22 estimating.

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1 And all of the other parameters
2 that were used for the different methodologies
3 are identified in this particular table.

4 Now, we'll go to the back end here
5 and I'll take you to the summary. And if we
6 have any questions, and you want to go into
7 details of any of the doses, we can do that
8 thereafter, as recommended by Mark.

9 And if we go back to Page 14 on
10 the summary conclusions, this table gives you
11 total external skin doses for Methods A and B
12 from SC&A, and NIOSH's doses, the internal
13 skin doses, and also the internal and external
14 doses for the red bone marrow.

15 And let me just point the primary
16 differences in this table, and what we have
17 concluded caused or was the result of those
18 differences.

19 First of all, you can see that
20 SC&A's Method B, under the external skin dose,
21 is significantly higher than NIOSH's doses,
22 and SC&A's Method A.

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1 That was primarily due to the fact
2 that Method B selected for its unmonitored
3 period of exposure -- which was about -- I
4 think an eight, no, nine or ten year period --
5 when they went into the coworker model, which
6 is OTIB-40, they selected the 95th percentile
7 value, as opposed to Method A and NIOSH
8 selecting the 50th percentile value for the
9 coworker model.

10 As you can see under the internal
11 skin doses, they were not calculated under
12 Method B. They were assumed that they were
13 going to be fairly insignificant. Method A
14 and NIOSH's values are very close.

15 And then if we go to the red bone
16 marrow doses, as you can see, again the Method
17 B for SC&A has a significantly higher external
18 dose. Again, that's the result of selecting
19 the 95th percentile value from the coworker
20 model.

21 And the internal dose for the red
22 bone marrow, you can see that NIOSH's internal

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1 dose was significantly higher than both
2 methods for SC&A.

3 That really resulted in the way
4 everyone interpreted the bioassay data. There
5 were quite a few bioassay samples. And what
6 NIOSH did in their assessment, they assumed a
7 chronic intake throughout the entire
8 employment period.

9 And then, in evaluating the
10 records, they realized there were several
11 bioassays using urinalysis taken in a row in
12 the 1977 time frame.

13 And those bioassays, even though
14 they were just over the limits of detection,
15 they considered that a potential incident.

16 And so they went and calculated, on top of
17 their chronic dose, an acute dose, and went
18 back to a date that was halfway between the
19 previous bioassay and the date of these
20 multiple bioassays.

21 So that's how their internal dose
22 resulted in a significantly higher amount than

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1 what SC&A's approaches were. SC&A's approach
2 assumed a chronic bioassay. And most of the
3 bioassays were below or right at the levels of
4 detection.

5 So I guess in summary, as you can
6 see on my Page 14 and 15, for the external
7 doses, the selection of either a 50th or a
8 95th percentile value played a big role in the
9 differences in dose.

10 Also, when it came to selecting
11 the organ DCF values, throughout the external
12 dose process and reconstruction, NIOSH chose
13 to assume that the DCF was one.

14 Where in both the SC&A
15 methodologies, we went into the external
16 implementation guide and selected the actual
17 organ DCF value, which was significantly below
18 one.

19 In addition, it was somewhat
20 interesting. On the occupational medical
21 dose, everyone used the same procedure, and
22 selected, obviously, the site occupational

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1 dose Technical Basis Document.

2 But each method did a few things
3 different. Method A assumed that there was an
4 annual X-ray exam procedure, which is
5 specified in that procedure.

6 Both Method B and the NIOSH
7 methodology assumed, they went into the
8 records and simply counted the number of X-ray
9 exams that were in the DOE files. And so they
10 calculated their occupational medical dose not
11 on an annual, but on what was in the records.

12 There was also some differences
13 regarding, for some of the skin cancers, what
14 surrogate organ was selected for pulling off
15 the data from the table in the Technical Basis
16 Document.

17 Now if we go into the internal
18 doses, again, as I just specified, there was a
19 difference in methodology because of both
20 NIOSH using both a chronic -- I'm sorry, a
21 chronic intake throughout the employment
22 period. And they also assumed an acute on top

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1 of that.

2 One of the other things that we
3 did a little bit differently than SC&A did in
4 Method A, where we looked at the bioassay
5 data, rather than assuming a maybe more
6 claimant-favorable absorption type F.

7 When we plotted that data and
8 fitted the data that we used, we realized if
9 we introduced a chest count that was done
10 later in the process, we would have likely
11 overestimated the dose by using an absorption
12 type F.

13 So we fell back to an absorption
14 type M, which seemed to fit the data more
15 appropriately, taking into account that chest
16 count.

17 And so that's the summary in a
18 nutshell. And if you have any questions, I'll
19 attempt to answer them. And I'm going to
20 maybe call on Doug because he was the Method A
21 SC&A dose reconstructor.

22 CHAIRMAN GRIFFON: I'll start off

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1 at least one question. And you alluded to
2 this, I think. But the skin doses, part of
3 the differences from Method A, I understand
4 the difference with Method B versus NIOSH.

5 But with Method A versus NIOSH's
6 numbers, you said one of them might have been
7 the surrogate organ selected. But NIOSH's
8 numbers are supposed to be -- maybe they're
9 not overestimating in this. Well, yes, you
10 said they were, using an overestimating DCF
11 for that, right?

12 MS. BEHLING: Right. I, quite
13 honestly, found it seemed like a bit of a
14 hybrid to me, which often happens during the
15 process.

16 I think they started out with the
17 overestimating approach by using the claimant-
18 favorable DCF value of one. As the process
19 went on, things such as counting the number of
20 X-ray exams, as opposed to just assuming an
21 annual -- typically, for an efficiency
22 measure, they would just assume an annual.

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1 They didn't do that in this
2 particular case. Same with the internal dose.
3 I think there were things that they did that
4 were claimant-favorable.

5 I will also point out, and again
6 NIOSH, you can correct me if I'm wrong here,
7 but generally when there are many or any kind
8 of overestimating techniques used in dose
9 reconstruction, if that PoC were to go over 50
10 percent, they would take a second look at this
11 case.

12 And I think if this PoC would have
13 been over 50 percent, they most likely would
14 have gone back and used actual DCF values.
15 They may have also gone back and reassessed
16 their fitting process for their internal dose.

17 And I hope, if you've had time to
18 read the document -- I tried to be as clear as
19 I could throughout the process to say in each
20 step why there were differences -- and
21 hopefully the report does explain that.

22 But if there are comments or

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1 questions down the road, feel free to contact
2 either Doug or myself or John Mauro.

3 CHAIRMAN GRIFFON: Others have
4 questions?

5 MS. BEHLING: I will also say
6 there is a second blind dose reconstruction,
7 that we will be submitting a second report for
8 that. And we should have that prepared for
9 the next meeting.

10 CHAIRMAN GRIFFON: As we're
11 looking at this case, and the other one, part
12 of our challenge is to decide to what extent
13 we want to use blind cases going forward, and
14 whether we want to increase the number,
15 whether we wanted to use methodology similar
16 to what SC&A used here.

17 I kind of like the Method A/B
18 idea. I can see John Mauro in Method B, of
19 course. But I think that, yes, that's a good
20 gut check kind of thing.

21 But the afternoon discussion is
22 going to revolve around the dose

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1 reconstruction methodology. So I think we
2 want to think about whether these blind
3 reviews are useful and how we can use them
4 going forward.

5 MS. BEHLING: The other thing I
6 would point out, which is somewhat of a unique
7 concept, although John Mauro has mentioned it
8 before, I know, in Work Groups that he's in.

9 And so in Section II, 0.2.8, John
10 has written a fairly extensive assessment of
11 potential skin contamination. And his feeling
12 was that since these skin contaminations were
13 on the face, and neck, and that type of area,
14 and considering the person's job function,
15 that there could have been, and also at this
16 particular site, there is a section in the
17 Technical Basis Document which discusses the
18 potential for skin contamination.

19 He felt that it would be
20 interesting to see if he could actually make
21 some broad assumptions and calculate some
22 doses, which he did.

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1 And I included that in our up
2 front table. But it might be interesting
3 reading for some, our original report, which
4 was sent with this comparison, as to how he
5 went about calculating those doses.

6 CHAIRMAN GRIFFON: Yes, he's
7 raised this issue before. And it's one of
8 those that's interesting. In your Table 1.1,
9 it demonstrates that this is an area that's
10 not accounted for otherwise. And that's how
11 John raised this issue, I think.

12 MS. BEHLING: Yes.

13 CHAIRMAN GRIFFON: It's how can we
14 account for --

15 MR. KATZ: While people are
16 thinking, Kathy, can I just get clarification
17 from you? What is this second report that's
18 going to be coming for the next DR
19 Subcommittee meeting? When is that? Because
20 -- go ahead.

21 MS. BEHLING: I'm sorry. We were
22 tasked with doing two blind reviews.

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1 MR. KATZ: Right.

2 MS. BEHLING: This is a comparison
3 of the first. And I was going to prepare a
4 comparison of the second one also.

5 MR. KATZ: Okay. Because didn't
6 you present both of these previously?

7 MR. FARVER: We presented the
8 blind --

9 MR. KATZ: Right, the blind
10 reviews.

11 MR. FARVER: But this is a
12 comparison of our blind reviews versus the
13 actual NIOSH dose reconstruction.

14 MS. BEHLING: Correct. What we
15 presented --

16 CHAIRMAN GRIFFON: I think we
17 asked him to go back and give more detail on
18 this, on both of these.

19 MR. FARVER: See when we did the
20 dose reconstruction, we did not have access to
21 it. They just gave us the original files.

22 And we went through and did a dose

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1 reconstruction. And that's what we presented
2 to you, our dose reconstruction.

3 MR. KATZ: Oh, so you didn't
4 compare your results to --

5 MR. FARVER: No. That was not
6 part of it.

7 MR. KATZ: Okay, I thought that
8 was part of the discussion.

9 MR. FARVER: -- we were just doing
10 a blind review.

11 MR. STIVER: Yes. That was tasked
12 at the July 2011 meeting.

13 MR. KATZ: Okay, thank you.

14 CHAIRMAN GRIFFON: Okay.

15 MR. FARVER: And then this is a
16 comparison of what NIOSH came up with, with
17 what we came up with.

18 MR. KATZ: Got it, thank you.

19 CHAIRMAN GRIFFON: So my interest
20 mainly, from this information, is to think
21 about how it can affect going forward. What
22 can we glean out of this? What's the

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1 usefulness in terms of our overall dose
2 reconstruction effort here?

3 I think the other DR reviews
4 strictly focus on, we'll get down to this this
5 afternoon, but it tends to pull out the
6 quality questions, the quality issues, the
7 quality findings. These blind reviews could
8 look at different aspects. Wanda wants to say
9 something. I can see it.

10 MEMBER MUNN: No, it's just --
11 determining what value, if any, this kind of
12 focused attention will have for us, is not an
13 easy task. And it's one that probably
14 requires more deep thought than deep
15 discussion, really.

16 And I personally haven't had an
17 opportunity to absorb the material here. I'm
18 looking forward to hearing Kathy's helpful
19 blow-by-blow of things that will heighten my
20 personal attention when I'm spending more time
21 thinking about these. I guess what I was
22 trying to say is it's hard to discuss it right

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1 now.

2 MEMBER KOTELCHUCK: This
3 particular one came out on Tuesday. By
4 Wednesday night, I was out of town for the
5 holiday, and came back on Sunday evening. So
6 I had yesterday. So I really also didn't get
7 a chance, particularly on this one, to absorb
8 it.

9 MEMBER MUNN: And I was traveling
10 all day yesterday.

11 MEMBER KOTELCHUCK: But that's the
12 particular of this particular week.

13 CHAIRMAN GRIFFON: Right. I
14 understand.

15 MEMBER MUNN: And I'm not begging
16 off, I'm just saying that deep discussion is -
17 -

18 CHAIRMAN GRIFFON: It is something
19 we need to figure out. That's what I'm
20 saying. I'm not saying we can do it in an
21 hour.

22 MS. BEHLING: And I apologize for

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1 not getting this into your hands earlier. But
2 I will hopefully get this next review or
3 comparison into your hands in plenty of time
4 before the next meeting.

5 So perhaps you'll be able to
6 digest that, and will be able to have a more
7 meaningful discussion of maybe even both of
8 these, at that point in time.

9 MEMBER KOTELCHUCK: Normally a
10 week's time is fine, if it's a regular week.
11 You just happened to send it in a very
12 particular holiday week. That made it
13 difficult for us. Otherwise, if you sent it a
14 week, or of course two, in advance, that's
15 fine.

16 CHAIRMAN GRIFFON: That's pretty
17 good for us too, a week in advance.

18 And I think the other thing that
19 I'm realizing is that, because I know it's
20 come up on the Board meetings, and the overall
21 Board has asked about why have we just done
22 two blind reviews.

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1 And so I think there's certainly
2 some interest in having the additional blind
3 reviews. But I want to see, before we just
4 assign a bunch of them, let's think more
5 deeply about what are we going to get out of
6 them.

7 And to that end, I'll also say
8 that I think we probably need to -- and I'm
9 sure Ted will agree with this -- probably need
10 to schedule our next DR Subcommittee meeting a
11 little sooner. Because we're falling behind
12 on the overall case work too. So I think we
13 might be able to more deeply discuss this, but
14 have a meeting early January or something like
15 that, right after our next Board meeting.
16 Because it's not a matter of waiting for SC&A
17 or NIOSH to get more work done. I think we've
18 got enough work on our plate right now that we
19 need to just probably schedule a meeting
20 sooner than that.

21 MEMBER CLAWSON: I'd like to make
22 one comment about this. From the layman's

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1 term, I know that you guys understand the
2 fundamentals of the dose reconstruction a heck
3 of a lot better than what I do.

4 But I really found this useful,
5 the comparison of going through and actually
6 seeing what the process was and why the
7 differences were in there.

8 And I really found it quite
9 interesting, just to help me understand it
10 better. And I think there are a few other
11 people on the Board that are similar to my
12 case.

13 I thought this was quite good. I
14 like the breakdown of where we were at, and
15 why they did what they did. The conclusion
16 was quite good.

17 CHAIRMAN GRIFFON: And I think
18 part of our hope is that we could identify
19 instances where the guidance isn't clear
20 enough, certainly comparing Method A to NIOSH.

21 Method B is a little different
22 thing. But comparing Method A to NIOSH, I

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1 think hopefully the findings we would expect
2 out of that would be: well, why did we select
3 this, and NIOSH select it this way? Well, the
4 guidance wasn't clear. So findings like that
5 might come out of the process.

6 On the other hand, now NIOSH has
7 instituted their internal, so it might be just
8 as valuable for the Board to oversee their
9 internal blind process, rather than do a whole
10 set of redundant blind processes. I don't
11 know. Maybe a little redundancy might be
12 useful, but those are the things I'm thinking
13 about, as I'm sitting here.

14 MEMBER MUNN: The bottom line
15 question is: what does all this focus buy us,
16 really? Are we getting something out of it
17 that tells us that something does need to be
18 changed, or is inadequate? Has been? That's
19 the basic question.

20 MEMBER CLAWSON: Well, and I guess
21 I've got to look at it from the claimant's
22 standpoint, because I've always looked at

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1 these dose reconstructions, and how come we
2 had so much difference in them, and everything
3 else. And to tell you the truth, in reading
4 through this, it helped me better understand
5 what the process was and how they went through
6 it.

7 I really, and this is just me,
8 though, I really found it very useful. And I
9 think it'll bring a lot of closure to a lot of
10 other people, seeing that we are watching.

11 And we're doing an independent review of this.
12 And we have double-checked what's being done.

13 MS. BEHLING: I found it
14 interesting also that people can be using the
15 same documentation, but maybe interpret the
16 DOE files a little bit different, and maybe
17 make a few judgment calls differently.

18 And so I thought -- even as well
19 as I think I understand the process, I thought
20 that it was interesting to see how three
21 individuals would assess the guidance and
22 assess the data in different ways, even using

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1 the same documentation, the same guidance
2 documentation, the same DOE files.

3 MR. STIVER: This is John Stiver.
4 I've got to agree with you on that, Kathy. I
5 think this is probably the most valuable
6 lesson we've seen here. Just thinking of the
7 different decision points that allow some
8 professional judgment on which way to go, you
9 can see that the end results of that can be at
10 least factors of two or more, for the final
11 dose number, using the exact same numbers.

12 And I think that's probably the
13 most important thing to get out of it. I'd
14 also tend to agree with Mark, that there may
15 be a bit of redundancy here now that NIOSH is
16 actually doing their own internal reviews.

17 And to be honest, I think that
18 would be the logical place for that to occur.
19 But you know, we have been attached with this.
20 And we have an ongoing commitment to do it.

21 And this afternoon we may decide
22 that there are other aspects of these that

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1 might be beneficial, other than just a check
2 on the implementation of the guidance and the
3 decision process.

4 CHAIRMAN GRIFFON: Let me ask
5 this. I don't see any findings related to
6 this blind case.

7 MR. STIVER: This is really a
8 comparison.

9 CHAIRMAN GRIFFON: Yes, I know.
10 But what I mean, can you boil it down to: did
11 you find where the guidance, or where there
12 was too much leeway, and left to professional
13 judgment in a certain -- I don't think it's
14 going to come out of this one case. But I'm
15 just asking.

16 MR. STIVER: Yes. And I don't
17 think it was either, it was more of a
18 comparison to expose here, and the first time
19 we've actually seen the side-by-side
20 comparison of both.

21 MEMBER KOTELCHUCK: But even the
22 decision of 50 percent versus 95 percentile

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1 coworker, that's a model. And there should be
2 an instruction and, more importantly, a
3 decision, collectively, about what should be
4 the proper number to use. That has to be
5 resolved. Maybe I don't understand coworker
6 models, though.

7 CHAIRMAN GRIFFON: One aspect, when
8 we were talking at the last meeting is: where,
9 in the dose reconstruction audit, is the
10 science reflected anywhere, if at all?

11 Because the basic reviews are just that.
12 They're looking at the implementation and the
13 quality side.

14 But one thing that has arisen,
15 kind of through an interaction of the Site
16 Profile and dose reconstruction processes, the
17 notion of when to pick up the full
18 distribution, or a higher percentage for a
19 given coworker model. And what categories of
20 workers would that go into. So it kind of
21 illustrates the subtle interplay between the
22 two different components there, which is very

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1 valuable.

2 MS. BEHLING: In fact, it's
3 interesting, for this coworker model, if I can
4 just take a minute and read a portion of, I
5 think, why the decisions that were made on the
6 50th percentile and 95th percentile.

7 Actually, from OTIB-40, it says,
8 "In general, the 50th percentile dose may be
9 used as a best estimate of a worker's dose
10 when professional judgment indicates the
11 worker was likely exposed to intermediate low
12 levels of external radiation.

13 The 50th percentile dose should
14 not be used for workers who are routinely
15 exposed. The routinely exposed workers, i.e.,
16 workers who are expected to have to be
17 monitored, the 95th percentile dose should be
18 applied."

19 And actually, in our Method B,
20 that quote was included to state this is why
21 we felt, from under Method B, that the 95th
22 percentile would be the applicable dose to be

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1 included for the coworker model.

2 So just based on that statement,
3 you can understand whether, as I said, with
4 SC&A's Method A, and Doug, you can speak to
5 this, you were looking at this as a best
6 estimate approach. And I assume that's why
7 you selected the 50th percentile dose. Not to
8 put you on the spot, but just in reading that
9 sentence --

10 CHAIRMAN GRIFFON: And Kathy, that
11 quote you read, where is it within you report?
12 Is that --

13 MS. BEHLING: That is not in my
14 report.

15 CHAIRMAN GRIFFON: Oh, okay.

16 MS. BEHLING: It's in the actual
17 review that was also sent along with this
18 paragraph. It's on Page 50 of our review, or
19 actually our dose reconstruction of this case.

20 CHAIRMAN GRIFFON: This whole
21 review, yes. Page 50 or 15?

22 MS. BEHLING: Page 50.

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1 MR. HINNEFELD: There are a couple
2 of things I think that, Scott might want to
3 swat me here, but there are a couple things
4 that may factor into the decision of between
5 50 and 95 percent.

6 There's a person's job title, and
7 I looked at this. This person's job title is
8 reported here. And that indicates to me that
9 this is probably someone -- it is a foreman,
10 and it's not a production foreman.

11 So to me this indicates someone
12 who maybe is not as heavily exposed as the
13 monitored population in general. Because the
14 second part of the question is: how full, how
15 complete, a monitoring record do we have from
16 this site during this year, or the years this
17 person worked there?

18 If they have a very robust
19 monitoring program, and this person was not
20 included, then that improves the chances that
21 he was not one of the most eligible people,
22 which would move him to the 50th percentile as

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1 the proper selection, rather than 95th
2 percentile.

3 So there are a couple of things
4 that factor into it, neither of which I know
5 the facts of, other than job title. And the
6 job title, to me, the 50 percentile sounds
7 like a reasonable, just going on job title, it
8 sounds like a reasonable choice to me.

9 CHAIRMAN GRIFFON: But then you
10 might get back to what John was saying. The
11 interpretation of that guidance, just
12 listening to that phrase that Kathy read, I
13 can see how three people could interpret it in
14 three different ways. You know, monitored and
15 likely exposed to, and so --

16 MS. BEHLING: Well, it's also a
17 bit interesting. During the period that he
18 wasn't monitored for external, he was
19 monitored for internal.

20 MR. FARVER: And see, I'm looking
21 at the report that apparently I wrote. And it
22 says that he was monitored for photon/electron

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1 dose from '67 through '69, and from '80
2 through '89. And then from '70 through '79,
3 there was no monitoring, external monitoring.

4 So I wrote that he was assigned a
5 non-construction coworker dose at 50th
6 percentile. Because I felt that he was likely
7 exposed to intermittent low levels of external
8 radiation. So I interpreted differently.

9 MR. CALHOUN: That makes sense.

10 CHAIRMAN GRIFFON: Seems
11 reasonable, yes.

12 MR. SIEBERT: That's how it was
13 interpreted in the original assessment from
14 us.

15 MR. FARVER: But I don't know. I
16 could argue and also see it the other way.
17 How do I know that, that it was intermittent
18 low levels? I don't know.

19 CHAIRMAN GRIFFON: Did his job
20 title change from those three different
21 periods?

22 MS. BEHLING: No.

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1 MR. FARVER: I don't think we have
2 information on that.

3 MR. HINNEFELD: We may not know.

4 CHAIRMAN GRIFFON: Right, may not
5 know.

6 MR. HINNEFELD: Sometimes we don't
7 have the last job title.

8 MR. STIVER: And also there's that
9 uncertainty about what really a production
10 foreman is doing.

11 MR. HINNEFELD: He was not a
12 production foreman.

13 MR. STIVER: I mean, with the
14 particular job title.

15 MEMBER CLAWSON: You know that's
16 what's always bothered me. Because working in
17 the industry, usually nine times out of ten I
18 have a foreman right alongside me that is an
19 independent overseer of what I'm doing, for
20 security reasons and also for other things.

21 That's why I really always shy
22 away when they throw out somebody's job title.

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1 Because, boy, there's a lot of interesting
2 ones that fit into it. And that's why it
3 makes me nervous. Because usually he's got as
4 much or sometimes more than I have in dose.

5 MR. SIEBERT: And one other thing
6 that we take into account is looking at, in a
7 case like this, where the individual actually
8 was monitored for a significant portion, on
9 either side, what coworker dose looks
10 reasonable compared to what he was getting
11 when he was being monitored.

12 Because it seems like if the
13 individual's being monitored, and he's getting
14 20 millirem per year, and then he has a ten
15 year non-monitored period, we're not going to
16 give him three rem per year.

17 MR. STIVER: Yes. Assuming his
18 exposure scenario is essentially the same --

19 MR. SIEBERT: Right. But once
20 again, putting all these things together,
21 that's another piece of the puzzle we need to
22 look at.

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1 MR. FARVER: Is that type of
2 wording in the documentation, the guidance
3 about: they should look at the surrounding
4 doses? I think it's a good idea.

5 MR. SIEBERT: We do look at that.
6 Matt, do you happen to know if that's in OTIB-
7 20? I know we updated OTIB-20 to put some of
8 this wording in, when we discussed it ad
9 nauseam before. Putting Matt on the spot.

10 MR. SMITH: Yes. I'd have to go
11 pull it up quick. And I don't know that we
12 talk about comparing the dose levels. That
13 may be encompassed in one of the procedures,
14 however.

15 MR. FARVER: I think it should be
16 included somewhere, just because that's just
17 another check on the system.

18 MR. STIVER: I may be wrong, but I
19 think I recall seeing that in the external
20 implementation guide.

21 MR. SMITH: It might also be in
22 Procedure-6.

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1 MEMBER RICHARDSON: Kathy, could I
2 ask two questions? I'm still trying to get
3 caught up. This is David Richardson. Maybe
4 the first one is: characterizing Method A and
5 Method B, are they on equal footing? Is one
6 preferred over the other?

7 MS. BEHLING: Well, what we were
8 trying to do, and again this was somewhat of
9 John Mauro's philosophy at the time, Method A
10 is supposed to be equivalent to what NIOSH is
11 doing. We are comparing apples with apples.

12 With Method B, John used to call
13 it -- and I don't believe John Mauro is on the
14 phone here. He thought he might be able to
15 join later in the day. And I hope I'm going
16 to explain this correctly.

17 But John would always talk about:
18 let's go in and let's use a single basis
19 document which gives us a history of the site,
20 so I understand what this person was exposed
21 to. But then let's do that practical health
22 physics back-of-the-envelope type

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1 calculations.

2 However, when John actually got
3 into this, it went a lot further than that.
4 He realized he couldn't just do back-of-the-
5 envelope type calculations with some of these
6 things. But that was the initial philosophy.
7 And, Doug, you can maybe expand on this a bit.

8 MR. SIEBERT: Yes. That helps.
9 That was what I was looking for.

10 MS. BEHLING: Okay.

11 MEMBER RICHARDSON: On Page 9 of
12 the draft, SC&A-TOR-DDR2012/CN016 -- the
13 document that you sent us. It lays out for
14 the medical doses, occupational medical doses.

15 It struck me that maybe SC&A had
16 switched around. Because in a sense the
17 Method B was conforming to what NIOSH is
18 doing. And Method A looked more, to me, like
19 a back-of-the-envelope approach. It's
20 dividing by a factor of 1.3 to account for the
21 uncertainty. Whereas Method B and NIOSH were
22 entering in a dose and assuming a distribution

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1 with some uncertainty around it. Am I right
2 about that, or not understanding?

3 MS. BEHLING: No. You're correct.
4 And again, this was one of the areas that, if
5 you go into the procedure, Method A went into
6 the procedures that we are going to select an
7 annual X-ray frequency. Because the procedure
8 indicates that that would be appropriate to
9 do.

10 Now with Method B, he went in and
11 actually looked at the 12 X-ray exams that
12 were in there, and decided that he was going
13 to calculate a dose for only those 12.

14 In actuality, NIOSH correctly used
15 ten of those X-ray exams, because two of them
16 were on the hand, and they were from an
17 injury. So really only ten of them were
18 associated with the test injury.

19 MEMBER RICHARDSON: I guess I'm
20 focusing not so much on the counting of the
21 number of X-ray exams as the handling of the
22 uncertainty in the estimate of the X-ray dose.

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1 Taking an assumption, I guess, a
2 historical assumption about what a dose from
3 an X-ray exam is, and dividing it by a factor
4 of -- or multiplying it by a factor of 1.3, to
5 account for that uncertainty, because you
6 actually haven't measured the X-ray dose,
7 versus entering it in as a distribution.

8 MS. BEHLING: Multiplying by 1.3
9 is in keeping with the procedure, I believe.

10 MEMBER RICHARDSON: In keeping
11 with the --

12 MS. BEHLING: With the procedure
13 and with the Technical Basis Document.

14 MEMBER RICHARDSON: So NIOSH
15 didn't do that correctly when they entered it
16 in as a -- what, a normal distribution with a
17 standard deviation of 30 percent?

18 MS. BEHLING: I believe you can do
19 either one.

20 MR. SIEBERT: Yes, I'd like to
21 point out the best estimate is to use the
22 actual value with a normal distribution with

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1 30 percent, as an overestimating assumption.

2 It's multiplying by 1.3, just to
3 take the high end of the distribution in mind.
4 So when it's an overestimate non-comp claim,
5 multiplying by 1.3, rather than doing the
6 whole distribution, was a common practice.

7 We don't do that anymore. We do
8 them all now as best estimate, with the actual
9 value and the 30 percent normal distribution.
10 Both are acceptable. One is an overestimate,
11 only taking into account the positive
12 uncertainty, as opposed to giving it the
13 distribution.

14 MS. BEHLING: Thank you, Scott.

15 MR. SIEBERT: Sure.

16 MR. STIVER: So it was kind of in
17 line with using the Monte Carlo methods and
18 calculations.

19 MEMBER RICHARDSON: Right, wanting
20 to do less Monte Carlo sampling, so you enter
21 it in as a constant, and a constant at one
22 standard deviation above the mean of the

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1 normal distribution. That's what you're
2 saying?

3 MR. SIEBERT: Right.

4 CHAIRMAN GRIFFON: 84th percentile.

5 MEMBER RICHARDSON: So that's a
6 different percentile, again.

7 CHAIRMAN GRIFFON: Yes, it would
8 be.

9 MEMBER RICHARDSON: It's a quirky
10 percentile. Okay. And can we go down and
11 look at the -- still I'm just trying to
12 understand -- the appendices list all the
13 values that are entered in. This is the
14 appendices of the other document, first blind
15 DR, January 2009. If you go down to Page 20
16 you start to get these appendices, where all
17 the doses are entered in.

18 MS. BEHLING: The IREP run.

19 MEMBER RICHARDSON: And now that's
20 the IREP input data for A, B, or NIOSH?

21 MS. BEHLING: For A.

22 MR. STIVER: That would be A.

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1 MS. BEHLING: Yes. The report
2 that we initially did was a dose
3 reconstruction using two methods, Method A and
4 Method B. And none of that data in there
5 reflects anything that NIOSH did.

6 NIOSH's data is only included in
7 the comparison. And so halfway through the
8 report, you will see the IREP input data for
9 Method A at the end of the report. You'll see
10 -- now let me be sure I'm correct here.

11 MR. STIVER: Beginning on Page 44
12 is the Method B.

13 MEMBER RICHARDSON: So if we start
14 at Method A with Table I-1, there's a series
15 of rows in the table about dose values that
16 are entered. And this is, again, just for my
17 understanding.

18 The first row, Exposure 1, there
19 was a recorded dose in 1969 for this worker.
20 There's an assumption about the energies. And
21 the value that's entered in is a constant
22 distribution with a value of 0.194.

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1 So under Method A here, under your
2 idea, you've done some correction again for
3 the dosimetry, a correction dosimetry
4 response, I guess, angular response or energy
5 response. But why is that value entered in as
6 a constant there? Because it's a recorded
7 dose, right?

8 MS. BEHLING: Yes, it is. We
9 generally entered it as a constant as a
10 claimant-favorable assumption. Doug, I'm
11 going to look to you for --

12 MR. FARVER: And I'm trying to
13 think if that's something we did, or if that
14 was something that was in the workbook.

15 MR. SIEBERT: Well, I would guess
16 that's because we're using the overestimating
17 DCF of one, versus an actual DCF.

18 MR. FARVER: It probably wasn't
19 for that one.

20 MR. SIEBERT: Not for that one?

21 MEMBER RICHARDSON: That's up
22 earlier in the page, where you get the 1.94.

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1 MR. STIVER: It can be kind of
2 confusing, because a lot of these dates
3 represent different types of exposures.

4 MEMBER RICHARDSON: So it's on
5 Page 12? You've a recorded dose of 0.1.39
6 rem. And you've got a series of factors that
7 it's multiplied by, dosimeter CF uncertainty.

8 So you're saying because you've
9 taken an uncertainty factor of 1.1 and
10 multiplied it by it, that you enter it in as a
11 constant?

12 MS. BEHLING: I'm looking.

13 MR. FARVER: I'm looking too.

14 MS. BEHLING: I think we used the
15 actual DCF values on these, Doug, didn't we?

16 MR. FARVER: We did. We took the
17 dosimeter value times the dosimeter correction
18 factor times an uncertainty factor times the
19 organ DCF. And for the skin dose DCF of one.

20 MS. BEHLING: Correct.

21 MEMBER RICHARDSON: So is NIOSH
22 convinced that it's claimant-favorable to

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1 enter in values as a constant at one standard
2 deviation, as opposed to allowing a normal
3 distribution with tails? I have a hard time
4 with the intuition about whether that is or is
5 not claimant-favorable.

6 CHAIRMAN GRIFFON: We've had this
7 discussion with Jim Neton a couple of times.

8 MR. HINNEFELD: It seems like Jim
9 was involved in that one before.

10 CHAIRMAN GRIFFON: Because we
11 raised the same issue earlier on it.

12 MR. HINNEFELD: It seems like we
13 demonstrated a long time ago that the issue
14 exists in a variety of situations.

15 CHAIRMAN GRIFFON: I don't recall
16 seeing a final sort of --

17 MR. HINNEFELD: I don't recall
18 specifically.

19 MEMBER RICHARDSON: Part of this
20 gets back to this question earlier about how
21 the Monte Carlos are being done. And you've
22 got 140-odd records.

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1 A lot of them are entered as
2 constants. There's actually no uncertainty of
3 distribution around them. None of them are
4 normal distributions.

5 And you've got a few triangular
6 distributions. It's always rubbed me the
7 wrong way. They rub me the wrong way because
8 they're not claimant-favorable either.
9 They're truncated.

10 But I didn't see any of what I was
11 expecting of normal distributions around
12 values. Maybe I shouldn't expect them. It
13 wasn't what I was --

14 MR. HINNEFELD: I don't know,
15 David. I don't recall if that approach, in
16 one batch or another, has been there forever,
17 as it is acceptable to use this particular --
18 multiplied, particularly in medical doses
19 rather than the actual dose with the
20 distribution. And I'm not 100 percent sure why
21 it was ever adopted. But it's been there
22 forever. It seems like there was some work

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1 done initially to convince ourselves it was
2 okay to do that. But it's been so long I ago I
3 don't recall.

4 CHAIRMAN GRIFFON: You might check
5 back with Jim on that. Because we have raised
6 this question since early on.

7 MR. SIEBERT: And once again, we
8 don't do that now. Now we use the actual
9 data.

10 MR. HINNEFELD: Yes, we don't do
11 that anymore. It'd probably be the
12 historical, for historical --

13 MR. FARVER: It looks like the
14 workbook tool put in distribution time as
15 constant. And I'm looking to see if there was
16 anyplace up front to change that, to add
17 uncertainty. In that workbook, I do not see
18 anywhere included.

19 CHAIRMAN GRIFFON: And when you
20 say you don't do that now, Scott, that's in
21 this instance? Or I think there's other
22 instances --

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1 MR. SIEBERT: For medical X-rays,
2 we use the actual value. It's an across the
3 board, and we use actual medical X-ray records
4 to do that.

5 CHAIRMAN GRIFFON: But David's
6 broader question, there's other instances
7 where you may just use a value constant,
8 right, as opposed to a whole distribution.

9 MR. SIEBERT: Generically, we're
10 getting away from doing that. And this kind
11 of speaks to Doug. Honestly, I'm going out on
12 a limb guessing here. But it's a pretty
13 educated guess.

14 The tool was written for
15 overestimating assumptions, if we had to do a
16 best estimate case, which would include Monte
17 Carlo calculations and include all the
18 distributions.

19 We would have used the best
20 estimate tool, which would have then been a
21 Crystal Ball calculation. That is much more
22 user-intensive, takes much more time.

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1 So if we can use the
2 overestimating tool, and it's a non-comp
3 claim, we would, which would have those
4 overestimating assumptions in them, rather
5 than the full distribution.

6 MEMBER RICHARDSON: I have another
7 question. Let's say that you've got medical
8 doses. You just assume that the person
9 received annual medical exposures over a 20-
10 year period.

11 So the spreadsheet's going to
12 have, am I right in thinking about this, 20
13 lines of doses of a certain energy. And now
14 you're --

15 MR. SIEBERT: Right, 1960, 1961,
16 right.

17 MEMBER RICHARDSON: -- you're
18 entering them in as a distribution under the
19 new way of handling this. So there's a mean
20 and an assumption of a variance for standard
21 error around it.

22 Do you know, or how those are

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1 being handled to get the post-year
2 distribution? Do you do a unique draw on each
3 one? Or do you assume that there's
4 correlation in the distributions around them?

5 MR. SIEBERT: Who wants to handle
6 an IREP question?

7 MR. HINNEFELD: Well, that would
8 be for Jim.

9 MEMBER RICHARDSON: Because in a
10 sense you could do either. You could imagine
11 each one is a unique draw. It's
12 computationally intensive, but it could be
13 done.

14 On the other hand, you could also
15 argue intuitively that there's correlation.
16 If the X-ray machine at that facility tended
17 to be delivering higher than average doses,
18 compared to some survey of doses from X-ray
19 machines in that period, then those would be
20 correlated.

21 It just has different
22 implications. I don't know, I'm just curious

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1 how this is being done.

2 MR. HINNEFELD: There have been
3 pretty extensive discussions with Jim and the
4 statisticians about that question, about
5 correlation and its impact on your sampling
6 strategy, when you do Monte Carlo. And I
7 don't know that I could understand them if I
8 listened to them.

9 MEMBER RICHARDSON: And then a
10 follow-up question is: do you know, is there
11 any way to know that it's implemented? Are
12 these chained samplings, are they correlated
13 samplings, are they independent draws? This,
14 again, is part of the black box.

15 MR. HINNEFELD: There is a way to
16 know. I don't know it. The people who
17 designed it were the people of SENES.

18 MEMBER RICHARDSON: Yes.

19 MR. HINNEFELD: And they designed
20 it to sample in a particular fashion.

21 MEMBER RICHARDSON: With Crystal
22 Ball, I think. I remember Owen used to use

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1 that.

2 MR. HINNEFELD: Probably, probably
3 it was designed that way. So they've designed
4 it, and they know how they designed the
5 sampling strategy.

6 Jim probably knows. I don't. So
7 there is probably a way to know that. And I
8 believe there have been discussions about this
9 issue. So if we want to put that on the
10 agenda, I'll have to get Jim down here to talk
11 about it, or whoever he designates.

12 MR. KATZ: What do we want to call
13 this?

14 MR. HINNEFELD: Correlated
15 uncertainty.

16 MR. KATZ: Correlated uncertainty,
17 thank you.

18 MR. HINNEFELD: Right. Jim refers
19 to it as "correlated uncertainty."

20 MEMBER RICHARDSON: And although
21 this blind DR review was done relatively
22 recently, the answer to some of these

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1 questions is: this is not how ORAU's doing the
2 reconstruction now?

3 MR. SIEBERT: This claim, on
4 ORAU's side, was done in 2006. So yes, there
5 would be differences on how it would be
6 assessed now. I don't know if I would be
7 sharp enough to know exactly how we assess
8 things. But any of those changes would have
9 been caught in the PER process, from the TBD
10 and things like that.

11 MR. FARVER: And I remember we
12 have discussed this, about the medical
13 exposures and the 30 percent and the 1.3, and
14 so I believe that has been changed.

15 So I don't think you even used to
16 do Monte Carlo calculations for skin doses.
17 Because you just would assume a DCF of one.

18 MR. SIEBERT: Right.

19 MR. FARVER: Right. So you
20 wouldn't do a Monte Carlo calculation.

21 MR. SIEBERT: Right. As we get
22 further down the road, and honestly Monte

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1 Carlo techniques become more robust in our
2 tools, we can use them with much more
3 simplification.

4 In Crystal Ball, as I said, it was
5 very user-intensive to run that tool through
6 Crystal Ball. So we had a very specific
7 number of dose reconstructors who knew how to
8 do that.

9 And if it had to go to best
10 estimate, we had those people do those types
11 of cases, and run them that way. So
12 realistically, just from an efficiency point
13 of view, if we didn't have to go down that
14 road, we wouldn't.

15 We would overestimate, if we could
16 get away with it, from an efficiency point of
17 view. Because it was just more efficient for
18 the client and for the claimant. Now that our
19 tools are becoming more robust and it's much
20 more straightforward running it, we are using
21 those methods more frequently.

22 Not in all cases; not everything's

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1 going to be run as a Monte Carlo best
2 estimate. But we are implementing those
3 things more consistently, because it is just
4 easier to do so than it had been in the past,
5 and more consistent to do so.

6 MR. KATZ: Does the Subcommittee
7 want to meet with him and talk about the
8 correlated uncertainty in DRs?

9 MEMBER RICHARDSON: I don't know if
10 he needs to come, at least be available, just
11 to answer that question.

12 MR. KATZ: Or be on the phone,
13 whatever.

14 MEMBER RICHARDSON: Yes, on the
15 phone. Yes.

16 MR. KATZ: But you would like to
17 discuss that at the next meeting, is the
18 question?

19 MR. HINNEFELD: Okay, so I want to
20 make sure I've got this, because I think I
21 understood it. You're asking, for instance,
22 if you have 30 years of medical exposures, how

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1 does IREP do its sampling when it propagates?

2 Are you going to do these 30 years
3 of medical times some other distribution for
4 each of those years? How does it draw a
5 sample as it works through those 30 years,
6 right?

7 MEMBER KOTELCHUCK: This is a much
8 broader question. Long experience tells all
9 that the medical X-rays play a substantial
10 role, eventually, in the PoC.

11 MR. HINNEFELD: Actually, long
12 experience would indicate to me that, in
13 general, they don't.

14 MEMBER KOTELCHUCK: That's what I
15 would guess as well, and yet we go through the
16 details with great care. Yes, and a lot of
17 things we do with great care. And then you
18 wonder: does it really matter in the end
19 decision?

20 MR. HINNEFELD: Yes. David's
21 question isn't specific to medical.

22 MEMBER KOTELCHUCK: Yes.

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1 MR. HINNEFELD: But, yes, we have
2 spent a lot on --

3 CHAIRMAN GRIFFON: I was going to
4 say, because it comes up in other instances.
5 That's why I was asking the broader --

6 MR. HINNEFELD: But to your
7 comment, you were exactly correct. We have
8 spend a lot of effort on doses that generally
9 don't get very big.

10 MR. SIEBERT: For the most part,
11 for most work. For some very specific cases,
12 it can make a big difference, in skin cancers
13 with PFGs that are in the beam. That can be a
14 significant dose.

15 So we're always trying to look at
16 the whole picture, not just the piece that
17 we're looking at, just like the Subcommittee
18 does, looking at the wider piece.

19 MEMBER KOTELCHUCK: It raises -- I
20 assume that, in some cases, after things are
21 "finished," quotes, or near the end somebody
22 goes back and said, okay, let's drop this

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1 category, this external, this internal, this
2 medical, and see what is really driving this.

3 Because that would help. Or it
4 may suggest, okay, if this is what's driving
5 it primarily, let's take a look back and see.
6 Maybe we ought to look at that more carefully.
7 Or: were we in agreement? Were ORAU and DCAS
8 in agreement there?

9 Because it may not matter very
10 much if you're in disagreement in other areas
11 that didn't count much anyway. It would be an
12 interesting look back. If it isn't done now,
13 you may do it informally, or you may do it
14 formally.

15 MR. KATZ: I think that's
16 reasonable guidance for the Board's scrutiny,
17 as well as the program's, absolutely. Focus
18 where the money is.

19 CHAIRMAN GRIFFON: Well, on that
20 note --

21 (Laughter.)

22 CHAIRMAN GRIFFON: We're at a good

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1 point to take our lunch break. And we can
2 come back to this to start off after lunch, if
3 we need to wrap up anything on reviews. But
4 let's break for lunch and come back at 1:30.

5 (Whereupon, the above-entitled
6 matter went off the record at 12:23 p.m. and
7 resumed at 1:36 p.m.)
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1 A-F-T-E-R-N-O-O-N S-E-S-S-I-O-N

2 MR. KATZ: Good afternoon. This is
3 the Advisory Board on Radiation and Worker
4 Health, Subcommittee on Dose Reconstruction
5 Review. We're just getting started again
6 after a lunch break.

7 Let me check on the line and see
8 if we have Dr. Poston. Dr. Poston, are you on
9 the line?

10 Okay. Nonetheless.

11 CHAIRMAN GRIFFON: Well, where we
12 left off was on the item on the blind reviews,
13 SC&A's blind reviews. And I don't know that
14 we have anything more to discuss there. I
15 mean, I think they're going to deliver one
16 more similar sort of product.

17 MR. FARVER: Next one will be a
18 little different because it's a single cancer.
19 Now this was multiple skin cancers.

20 CHAIRMAN GRIFFON: Oh, okay, yes,
21 yes.

22 MR. FARVER: So the next one's a

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1 little different.

2 CHAIRMAN GRIFFON: Alright.

3 MR. FARVER: I don't know what it
4 will show, but it'll just be a little bit
5 different.

6 CHAIRMAN GRIFFON: Right, right.
7 And I don't know that we have anything more to
8 discuss on that case, but I think it does roll
9 into --

10 MR. KATZ: How soon will we have
11 it? Commence testing?

12 CHAIRMAN GRIFFON: Yes.

13 MR. FARVER: Oh, gosh. We'll have
14 to ask Kathy.

15 MR. KATZ: Kathy, you on the line
16 already?

17 MS. BEHLING: Yes, I am. I'm
18 sorry, I didn't hear the question.

19 MR. KATZ: I'm sorry. How soon do
20 you think you could have the second case to us
21 for comparison?

22 MS. BEHLING: You could get it in

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1 two weeks.

2 MR. KATZ: Oh, great, okay. Okay,
3 so --

4 CHAIRMAN GRIFFON: So it'll be
5 ready for our next meeting.

6 MR. KATZ: Plenty of time, yes.

7 CHAIRMAN GRIFFON: Alright.

8 MR. KATZ: Thanks.

9 CHAIRMAN GRIFFON: And then let's
10 do this next item, because I think that also
11 plays into the overall dose reconstruction
12 procedures for review, so it leads into it
13 nicely, which is the resolution of the Rocky
14 Flats cases. We were going to do a look-back,
15 as we were calling it, at the Rocky Flats
16 cases and Doug sent us out a document, and I
17 guess John or Doug will took the lead on that.

18 MR. KATZ: We have two documents.

19 MR. FARVER: There's two
20 documents.

21 CHAIRMAN GRIFFON: Oh, there's
22 two, that's right, yes.

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1 MR. FARVER: And they're
2 completely different purposes and content. I
3 mean, it's --

4 CHAIRMAN GRIFFON: First, tell us
5 what the documents are.

6 MR. FARVER: The first document is
7 what's called the look-back review, and it
8 goes back and it looks at the Site Profile
9 issues that have been updated and changed. It
10 talks about PER and it talks about some SEC
11 issues, and all the things that have been
12 changed since the last time we reviewed the
13 Site Profile. And then the second document is
14 specific to the Rocky Flats findings from the
15 10th to 13th sets.

16 CHAIRMAN GRIFFON: I know I've
17 seen the first one, but could you tell me when
18 you sent that first one out, just so I can
19 pull it up?

20 MR. STIVER: I think it was, gosh,
21 second week in October? I'd have to check, it
22 might have been like October 1.

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1 MR. KATZ: I have a good
2 explanation for this, because I sort of
3 interceded with this which is why you got a
4 second document. The intent, when we were
5 discussing this look-back, was to see how well
6 the case reviews reflect or may catch issues
7 that are relevant for SEC matters, PER
8 matters, in other words, how well they're
9 catching procedural problems, potential
10 procedural problems with dose reconstructions.

11 I mean, that was sort of the
12 question Dr. Melius was raising, whether
13 there's a gap between these processes and what
14 we wanted to know from these cases is: if a
15 case could potentially have indicated a
16 problem that later resulted in addition of an
17 SEC or issuance of a PER improving the
18 procedures, did it do that?

19 If it could have, did it do that?
20 Because we're trying to see how well are these
21 cases capturing those issues where they might.
22 So those were sort of my general instructions

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1 after they issued their first report, back to
2 them for what we needed that was really not
3 covered in the first report was --

4 MR. FARVER: I don't think what
5 you just mentioned there is going to get
6 covered in a DR review. In other words, it's
7 not going to be an issue that's going to
8 generate an SEC. It's not going to be an
9 issue that's going to, I don't know, be a big
10 procedural change.

11 Because those type of issues would
12 get identified either in, you know, the
13 Procedures Subcommittee or a Work Group or
14 through Site Profile reviews where we identify
15 the scientific issues.

16 I understand what you're saying --

17 CHAIRMAN GRIFFON: Well, that's
18 part of the discussion of the scope. That's
19 why I said it leads into the next discussion.

20 MR. FARVER: It probably is not
21 going to get identified in the DR review,
22 which I think is kind of what was shown here

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1 in the second report, and we can talk about
2 that.

3 MR. KATZ: Yes, that may be the
4 result of analyzing this, but the issue that
5 Dr. Melius was concerned about was, well, if
6 we're doing case reviews, shouldn't they be
7 identifying such issues where they -- when
8 they reside in the case, in effect? So if
9 they should have revealed a problem with the
10 Dose Reconstruction method and didn't, that
11 would be an issue.

12 MR. STIVER: Well, we have to keep
13 in mind that the basics and the blind DRs as
14 they're done today, are basically doing three
15 things: whether the data that was captured
16 from DOE and from the CATI are in fact used in
17 the proper way; whether the procedures were
18 followed, and the directions; and at certain
19 junctures where there's enough leeway in the
20 procedures that would require professional
21 judgment, an evaluation of how that was done.

22 But what we're looking at, the

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1 case reviews were never intended to look at
2 the big science issues or to go back and try
3 to capture if the procedure -- they follow
4 procedure, but to rule out the procedure --
5 and that was going to be done and I think
6 should be done in the venue of the Work Group
7 for that particular site, because otherwise
8 you'd have a situation where you're trying to
9 replicate again and again. Every time you do a
10 case, you have to go look at these science
11 issues again.

12 And so I think the only time I can
13 recall when a particular finding resulted in a
14 procedural change was, I believe, in the
15 overestimating approach used in the very
16 beginning. One case was used to compensate
17 another case when in fact it shouldn't have
18 been. And I believe that was what gave rise to
19 TBD-6000. But there's never, in my mind at
20 least, I've never seen where a DR finding
21 resulted in -- or an SEC arose from a final --

22 MR. KATZ: Well, I think a lot of

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1 DR case reviews have raised issues that went
2 beyond the case itself and I think --

3 MR. STIVER: Well, usually in the
4 sense of: is the coworker model being applied
5 in the correct way? So that's what I was
6 talking about earlier, kind of the subtle
7 interchange between --

8 MR. FARVER: A lot of them have
9 resulted in procedural changes, just update
10 the wording, additional wording, things like
11 that.

12 MR. STIVER: Yes, you're probably
13 going to find more procedural updates. Some
14 way to feed back into the PER process and that
15 situation.

16 CHAIRMAN GRIFFON: I think it's
17 strong -- too strong -- to say never intended.
18 Because I think Ted's right. In the early, in
19 the very early -- before your time, John and
20 Doug, that's where we identified a lot of the
21 big issues.

22 But we didn't have all of these

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1 other Work Groups going out, so it's evolved
2 into -- the bigger issues we push off into the
3 Work Groups, and now the Work Groups are
4 established, so they're kind of, you're right,
5 they're set.

6 MR. STIVER: I guess the way I see
7 it, and correct me if I'm wrong, especially
8 Mark and Ted, that where we seem to have a
9 problem is at the back end of the DR review,
10 and then integrating that with the science
11 changes per Site Profile discussions and also
12 in parallel with that, the SEC determinations
13 and PERs.

14 How does that all then feed back
15 into the final product? So when you go to the
16 Secretary, you know, actually present, we did
17 400 dose reconstruction reviews and they all
18 look great. Yet, at the same time, we've got
19 all these SECs and Site Profile changes. So I
20 wondered --

21 CHAIRMAN GRIFFON: Yes, that's
22 exactly what Jim was considering.

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1 MR. STIVER: Yes, so how do you
2 then integrate all that back into the process?
3 And that's where we need to kind of, you know,
4 put our heads together and think of a way to
5 sort of do that. But I think John Mauro's
6 first look-back report, what he tried to do in
7 that was, you know, kind of really capture the
8 changes that have occurred.

9 Basically, the DRs, they're a
10 snapshot in time. So what he did, he looked
11 at -- because, you know, we selected Rocky
12 Flats because the TBDs has been completely
13 revised, the tools had all been updated.

14 And so here we have a case where
15 you ought to be able to look at that, see
16 what, at the time that we did the Dose
17 Reconstructions, what the issues were, and
18 then, you know, what are the revisions that
19 have then taken place, and how many of those
20 are still relevant for the reconstructions?

21 And that's kind of what we
22 gathered was the -- our charge going forward,

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1 although, reading through the transcript,
2 there was a lot of discussion about this idea
3 of integration. So I think we tried to cover
4 both bases here as best we could. I don't
5 know, Doug, would you like to walk them
6 through the --

7 MR. FARVER: Which one?

8 MR. KATZ: Just before we leave
9 this, just to clarify, it's not, I mean, the
10 issue isn't so much are the cases integrators.
11 The question is: are the cases sort of
12 canaries, or whatever, in the mine? Are they
13 a useful tool, for indicating if there is a
14 fundamental problem with the dose
15 reconstruction procedures?

16 And I'm not sure, I can't think of
17 all the matters that have been addressed on
18 the SEC plane with respect to Rocky Flats, and
19 certainly all the other sites where we've had
20 SECs. But I wouldn't assume a priori that a
21 dose reconstruction case review couldn't
22 identify an issue that was in common with what

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1 ended up being an SEC matter.

2 MR. FARVER: No. It could happen.

3 MR. KATZ: Yes.

4 MR. FARVER: It may have, I don't
5 know.

6 MR. KATZ: Yes.

7 MR. FARVER: I think you would
8 have to look at all the SECs and what prompted
9 them, and the time frame, but --

10 MR. KATZ: But just to clarify, I
11 think the intent is that, to the extent that a
12 Dose Reconstruction case might do that,
13 perform that function, is it doing that? So
14 that's it. Not that it's a be-all and end-all
15 and that you don't need -- obviously the Site
16 Profile reviews dig deeply into the site
17 issues and so on, but to the extent that a
18 dose reconstruction case review does, you
19 know, have potential for identifying issues,
20 is it, at this point?

21 And that will also be useful for
22 thinking forward. How do you want to design

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1 your Dose Reconstruction case reviews in the
2 future so that, if they don't do that to any
3 degree, they might?

4 MR. STIVER: One area where they
5 might have actually done that, to some extent,
6 would be in observations that we've made. Not
7 formal findings, but issues that arise that
8 really aren't within the current purview of
9 the audit. But that may nonetheless still
10 bear on the scientific issues, and we've kind
11 of captured those in terms of observations,
12 because they really, to this point at least,
13 haven't been considered something that needs
14 to be addressed in the DR review, but
15 nonetheless, can be brought up for these types
16 of discussions.

17 MR. FARVER: So which report would
18 you like to go through first?

19 CHAIRMAN GRIFFON: We'll do it in
20 any order that you think.

21 MR. FARVER: John, are you on the
22 phone?

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1 CHAIRMAN GRIFFON: Go through the
2 look-back.

3 MR. STIVER: Yes, let's go through
4 the look-back first.

5 MR. FARVER: Okay. Do we all have
6 the look-back report?

7 MEMBER MUNN: November 20, right?

8 MR. FARVER: No. October 4.

9 MR. STIVER: Yes, I've got October
10 4.

11 MEMBER MUNN: Oh, okay. All right.

12 MR. STIVER: Actually, you know,
13 in this one, there's a pretty good executive
14 summary that kind of lets us know what the
15 issues are here. Let me know when we're ready.

16 MEMBER MUNN: Go right ahead.

17 CHAIRMAN GRIFFON: Yes, go ahead.

18 MR. FARVER: Okay. We can start
19 by going through the executive summary.

20 Basically, what prompted this report is: when
21 we do our DR reviews, we have a section in
22 there, 1.3, where we list previous findings

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1 that may be applicable to that case that
2 weren't previously identified during a Site
3 Profile review. So since the Site Profile had
4 been updated at Rocky Flats, we chose to go
5 through and see what had been changed and also
6 added in information on SECs and PERs.

7 So that's the basis of this. And
8 we can glance down at the first table, and it
9 just shows that there were eight cases, in
10 these sets from 10 to 13, for Rocky Flats.

11 And six of them out of eight were
12 compensated by the SEC. It shows in the final
13 column what DR version was used, and in many
14 cases, it was the revised DR review. Not the -
15 - I'm sorry, it shows the date of the DR,
16 which then will relate back to what version of
17 the Site Profile was used. Table One
18 basically shows eight cases, six of which were
19 compensated.

20 In Table Two, for each of the
21 cases, we will go through and identify
22 findings from the Site Profile that will be

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1 applicable to the case. We identified 11
2 findings during our Site Profile review, and
3 those 11 columns in Table Two represent the 11
4 findings.

5 And for each case, you can see
6 that they would be impacted to a certain
7 extent by most of the findings. So that was
8 the purpose of Table Two.

9 Table Three looks complicated.

10 CHAIRMAN GRIFFON: Wait, that's
11 Table ES Two, right?

12 MR. FARVER: Yes, ES Two and ES
13 Three, yes.

14 CHAIRMAN GRIFFON: Yes, this is
15 kind of a complicated table.

16 MEMBER MUNN: D means it's a
17 duplicate. That means it's not addressed
18 elsewhere.

19 MR. STIVER: Even for the two cases
20 that were uncompensated by the SEC in Table ES
21 Three on Page 12, those letters show that an
22 R would indicate that really and truly, the

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1 Site Profile explicitly addressed the issue.

2 P would mean that it partially
3 addressed the issue, and then D refers to
4 duplicate, because the issue was already
5 addressed as part of another issue. And the
6 letter N meant it would not be addressed in
7 any of the revisions to the Technical Basis
8 Documents.

9 Issue 11 was the only one that was
10 not addressed in any of the documents. There
11 were two that were duplicative. Number Seven
12 and Eight for both cases. And now it is a
13 partial address, if you want to call it that,
14 for issue number two for both of them.

15 And so with the rest of this
16 report, what we've done is: it just takes a
17 look at all those issues that were open and
18 addressed to the extent to which, just like in
19 the tables, how those findings could possibly
20 be, what their impact might be on those cases
21 today using the current revisions of the TBDs.

22 And which of those could then be

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1 closed out for the purposes of the dose
2 reconstructions. To give you an idea, to kind
3 of bring everything up to the current times,
4 given the fact that these were done several
5 years ago.

6 I don't know if there's really a
7 lot more to say about that. It was really the
8 intent of this particular exercise here.

9 Alright, Doug, if you'd like to --
10 if we want to go down to the end of this
11 thing, it might be the best time to -- let's
12 see.

13 MR. FARVER: I think one of the
14 key things of the whole document is: you go
15 through and you can see that there were 11
16 issues identified through the Site Profile
17 review, but I believe there are still many
18 that have not been addressed.

19 There are some that have, but also
20 many that have not. And a lot of that is
21 summarized on Page 35, Table 2.3: "Summary of
22 the Status of SC&A Site Profile findings."

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1 And that gives you the gist of it.
2 It says, you know, a lot of them were included
3 in Revision Two, some were addressed on
4 another issue, and some were unaddressed.

5 And so, you know, there's a few
6 here that should probably, may want to be
7 looked at at some other time. If you just
8 glance at Table 2.3, under internal dosimetry,
9 go down to, you know, ingestion, recycled
10 uranium, you know, those items were
11 unaddressed in the second revision.

12 MEMBER MUNN: They were addressed
13 in other findings, though. The ingestion
14 pathway and recycled uranium were.

15 MR. FARVER: Those specific ones
16 for Rocky Flats?

17 MEMBER MUNN: Yes.

18 MR. FARVER: Okay.

19 MR. STIVER: Ingestion has been
20 addressed as kind of an overarching issue.

21 MEMBER MUNN: Yes.

22 MR. FARVER: Okay. And you see in

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1 the next column, the path would be to
2 reevaluate this issue, so we'd have to go back
3 to the text and find out why we felt it was
4 not addressed and needs to be reevaluated.

5 And really, I am not the best person to go
6 through this because I had almost nothing to
7 do with this report.

8 MR. STIVER: John Mauro is the
9 principal author of this report.

10 Unfortunately, he wasn't able to call in
11 today. But, you know, the broad brushstrokes
12 of the thing is that, you know, while some of
13 these issues have, in fact, been addressed and
14 are no longer pertinent to the dose
15 reconstructions, some of them still are, there
16 are certain aspects that need to be
17 incorporated.

18 Even though the revision has taken
19 place, the dose reconstruction has identified
20 this as a potential problem that still needs
21 to be resolved.

22 But also -- oh, go ahead, excuse

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1 me.

2 CHAIRMAN GRIFFON: I was going to
3 say, Finding Three, if you're looking at
4 Executive Summary Three, Finding Three in the
5 body of the report is the neutron finding,
6 right? It's got a couple of elements to it,
7 but MP ratio and assignment, I think of people
8 not monitored by NTA film, whatever.

9 I mean, it became a neutron issue
10 as we evolved in the SEC discussions. And
11 your next -- I mean, maybe I'm transitioning
12 to your next report that Ted asked -- but it
13 seems to me that was identified in the Site
14 Profile review, correct?

15 MR. FARVER: Yes.

16 CHAIRMAN GRIFFON: That issue? It
17 wasn't really identified in any case.

18 MR. FARVER: Correct, so because
19 it was identified in the Site Profile review,
20 we would not make it a new finding.

21 CHAIRMAN GRIFFON: But was it
22 mentioned when you did your individual cases?

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1 MR. FARVER: It was contained
2 within 1, 2 and 3 --

3 CHAIRMAN GRIFFON: It was
4 mentioned in the top section where you said --

5 MR. FARVER: -- where we talk
6 about the findings.

7 CHAIRMAN GRIFFON: -- previous
8 findings, right?

9 MR. FARVER: yes.

10 CHAIRMAN GRIFFON: But those are
11 never captured in our matrix process.

12 MR. FARVER: Those are not, because
13 that would be double-tracking the finding.

14 CHAIRMAN GRIFFON: That's fine.

15 MR. FARVER: You know, one, it's a
16 finding under Site Profile.

17 CHAIRMAN GRIFFON: So, I mean, you
18 were at least acknowledging that that issue
19 remains on the table?

20 MR. FARVER: Right.

21 CHAIRMAN GRIFFON: But you're not
22 going to drill down to it in each and every

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1 case?

2 MR. FARVER: No.

3 CHAIRMAN GRIFFON: Because it's in
4 process, right?

5 MR. STIVER: Yes, it's identified
6 that these are issues that would be pertinent
7 to this case.

8 CHAIRMAN GRIFFON: Right.

9 MR. STIVER: They're still, you
10 know, under review in the Work Group.

11 CHAIRMAN GRIFFON: Right. I'm just
12 thinking, going forward, how these gaps can
13 be, how we can be sure we don't have gaps and
14 stuff.

15 CHAIRMAN GRIFFON: Right.

16 MR. FARVER: So for this set of
17 cases, none of those would show a deficiency
18 or a finding under neutron dose about the NTA
19 finding?

20 CHAIRMAN GRIFFON: Right, because
21 that was under review under the other --
22 right.

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1 MR. FARVER: So it would not
2 identify an SEC issue for these cases that
3 we're going to look at.

4 CHAIRMAN GRIFFON: Yes.

5 MR. STIVER: It's really to notify
6 the Subcommittee, you know, that these things
7 are still in play and could impact these
8 cases.

9 CHAIRMAN GRIFFON: Yes. It did more
10 or less identify it by saying, in your report,
11 in the body of your report, that these are
12 outstanding issues.

13 MR. STIVER: That's right, and
14 really this was one of the first things Dr.
15 Melius wanted us to do is kind of look back
16 and see, you know, are there still issues at
17 play in the Site Profile that might bear on
18 these cases at a later date, that they have in
19 fact been addressed.

20 And that's why it was put in that
21 Section 1.3 to begin with. And it's kind of,
22 from there, we've kind of expanded on this

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1 whole idea of how the different components are
2 working together.

3 MR. FARVER: I can speak in more
4 detail about the cases in the next report.

5 MR. STIVER: Unless you want us to
6 discuss this more, I think we could segue into
7 the next report.

8 CHAIRMAN GRIFFON: Yes, go ahead
9 to the next report. Or go ahead, Wanda.

10 MEMBER MUNN: Well, I'm not sure I
11 understood what that last exchange really said
12 there, because I was reading the last
13 paragraph of Finding Three here in the report.
14 That says, "In addition, the publication
15 record that introduces the TBD states that
16 many of the revisions explicitly address
17 neutron exposures more importantly.

18 "An SEC was granted primarily
19 based on issues related to the inability to
20 reconstruct neutron exposures with sufficient
21 accuracy. In light of the SEC, it appears
22 that this issue can be closed, as it applies

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1 to a given DR, except to confirm that the case
2 was, in fact, appropriately reconsidered in
3 light of the SEC."

4 That gives me a slightly different
5 impression than what I got when I was looking
6 at the table. It looks to me as if this was
7 considered and handled appropriately.

8 MR. FARVER: Oh, I see what you
9 mean. So you're saying --

10 MEMBER MUNN: See, it looks to me
11 like it's done, and done correctly.

12 MR. FARVER: Whereas, when you look
13 at the table and you see Finding Three --

14 MEMBER MUNN: Yes, it led me to
15 believe that it was --

16 MR. FARVER: Well, what it says
17 is, it was addressed in Revision Two --

18 MR. STIVER: And/or SEC.

19 MR. FARVER: -- and/or SEC and the
20 next action would be "reviewed under a PER-
21 21." In other words, you get a PER-21 review
22 just to make sure that the case fit into the

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1 SEC.

2 MEMBER MUNN: Okay.

3 MR. STIVER: PER-21 is basically a
4 one-pager that basically says we've revised
5 all these TBDs and it's pretty open-ended, and
6 that's the one we kind of put on hold.

7 MEMBER MUNN: Okay. Didn't seem
8 to jibe to me.

9 MR. FARVER: Do we want to start
10 the second report?

11 CHAIRMAN GRIFFON: Yes, let's try
12 that, let's go to the second report.

13 MR. FARVER: Alright. This is
14 called RFP Issues from 10th to 13th sets. And
15 probably went out not too long ago. And this
16 refers specifically to the eight findings or
17 the eight cases, Rocky Flats cases, from the
18 10th through 13th sets.

19 And that's pretty much what the
20 introduction states, and we go down to the
21 first Table One, Summary of the Findings, it
22 just shows that those were eight cases, the

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1 cancer, and the date the DR was completed.

2 There was 14 findings in the eight
3 DRs and one of the cases did not have any
4 findings. So really, there were 14 findings
5 out of seven reviews.

6 Table Two just lists a summary of
7 the case findings. One of the things I like to
8 point out is: even though they may have the
9 same alphanumeric ending on them, referring to
10 the same plan in the Table Two checklist we go
11 by, they are for different items. They are
12 not similar in any of the cases. They
13 just wound up getting grouped under the same
14 general criteria. But those are the 14 cases,
15 and those are just the basic titles of the
16 findings.

17 At the bottom of Page 5, we talked
18 about the SEC and pretty much state the SEC,
19 and the SEC pretty much has to do with the
20 neutron data, as we're all aware.

21 Table Three shows what cases were
22 compensated by the SEC and the reason they

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1 were not compensated. There was one case that
2 was initially not compensated, and I give a
3 basic description of what happened.

4 There were some objections filed
5 to the final adjudication branch and they went
6 through a process of reviewing records and
7 affidavits, and finally they determined that
8 the individual met the SEC requirements. And
9 so the individual was compensated by the
10 Board, the Final Adjudication Board. It's a
11 little different, that's why I had to kind of
12 explain that there in the paragraph.

13 While our case reviews did not
14 specifically identify the quality of the
15 neutron dosimetry data as a deficiency, it was
16 previously identified, as we saw, in the SC&A
17 review of the Site Profile.

18 And, if you go back and look at
19 our review of the Site Profile, it gives a lot
20 more information than was even contained in
21 the previous report. About the neutron, about
22 our concerns about the neutron data.

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1 So the first question is: Did we
2 identify any SEC issues in these cases, in our
3 findings? And the answer is no. Okay.

4 Next thing we're concerned about:
5 Program Evaluation Report issues. There are
6 three PERs issued, did any of our findings
7 identify PER issues? So Table Four lists the
8 three PERs, lists the effective dates, and a
9 description of what the concerns are.

10 The first one is PER-10, and it's
11 really for claims that were after August of
12 2005. All of these eight cases that we looked
13 at were completed -- oh, that's okay, make
14 sure I got that wording right.

15 MEMBER RICHARDSON: Completed
16 after 2005, I think that's right. Aren't you
17 2006, '07 and '08?

18 MR. FARVER: Yes. The description
19 should say for claims before August 31, 2005.

20 MR. STIVER: Yes, I think that was
21 just a typo there.

22 MR. FARVER: Because all our

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1 claims were after the date of the PER, so none
2 of the PER -- or none of our cases are
3 applicable for the PER-10, is the bottom line.
4 So we didn't have to worry about PER-10 issues
5 on the claims that we looked at.

6 So now we move on to PER-12. It's
7 for claims that were not evaluated for OTIB-
8 49, which is the highly insoluble plutonium.
9 OTIB-49 was issued in February of 2007, so it
10 would really be for claims that were -- is it
11 showing four?

12 Four of the cases we looked at
13 were completed before OTIB-49 became
14 effective. So in each of those reviews, the
15 SC&A did note that the case should be
16 evaluated per the guidance of OTIB-49.

17 We have one little mistake in our
18 one review of the one case. We recognize it
19 should -- on our initial report, we did not
20 have a reference to OTIB-49, but this is one
21 of the benefits of having our one-on-one
22 conversations with the Board.

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1 During the discussions at that
2 time, it was asked, well, gee, should this be
3 looked at for, you know, highly insoluble
4 plutonium? It was determined yes. So we went
5 to modify the case and we went and modified it
6 incorrectly.

7 We put the wrong wording in our
8 report. Meant well, just executed poorly.
9 Overall, OTIB-49 did not have an impact on any
10 of the four dose reconstructions we looked at,
11 since all of those four were included in the
12 SEC.

13 The four remaining cases were all
14 completed after OTIB-49 was issued, and two
15 were included in the SEC, were not impacted by
16 OTIB-49. One of the cases, we did perform
17 calculations of Type S and Super S plutonium
18 and found M plutonium to be the best, the
19 product who had the most dose in this case,
20 which showed our conclusions were consistent
21 with what they found in the DR.

22 There was only one case that was

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1 impacted by OTIB-49, and the DR did modify the
2 Type S plutonium dose according to the
3 techniques in OTIB-49 and assign the plutonium
4 dose to the breast from Super S plutonium.

5 So they did it correctly. So they
6 evaluated it and did it correctly. That
7 pretty much tells the story of each of the
8 eight cases and how they relate to PER-12.

9 MR. SIEBERT: Hey, Doug? Just to
10 verify -- I'm sorry to interrupt, just to
11 verify for you, I looked at PER-10 and it is
12 before August 31st, instead of after.

13 MR. FARVER: Before?

14 MR. SIEBERT: After.

15 MR. FARVER: Oh, thank you.

16 MEMBER RICHARDSON: Okay, good.

17 MR. SIEBERT: Sure.

18 MR. FARVER: The final PER was
19 PER--21. And it was for claims that needed to
20 be reviewed about new issues in the TBD, after
21 the TBD was reissued. PER-21 was issued after
22 the SEC designation for claims that were not

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1 determined to be a member of the SEC.

2 It's an effective date of
3 September 20 of 2007, and it determined which
4 previously completed claims required
5 evaluation for the effect of revising Rocky
6 Flats TBDs and TIBs. Since five of the SEC
7 cases reviewed were determined to be included
8 in the SEC, PER-21 did not impact those.

9 The remaining three cases were
10 completed before PER-21 became effective,
11 therefore those DRs were reworked according to
12 the revised Rocky Flats TBDs and TIBs. The
13 SEC review in those three cases, we did not
14 specifically identify that the TBDs or TIBs
15 had been revised.

16 Because what we were looking at
17 is, did they use the correct -- the revision
18 of the document that they specified in their
19 DR? So if the DR goes through and specifies,
20 you know, we reviewed according to revision
21 two, then we're going to go to revision two
22 and see that they followed the appropriate

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1 guidance.

2 Since the whole purpose of this
3 PER was to go back and incorporate TBD
4 revisions, we reviewed it to the actual TBD
5 that changed, so we would not identify any TBD
6 issues at that point.

7 And in those three cases, we
8 determined that the dose reconstructor
9 followed the approved revision to the TBD, so
10 it was pretty uneventful from the PER point of
11 view.

12 The final issue is procedural
13 issues. We looked at the 14 findings and kind
14 of made a determination: is our finding the
15 result of a error in a procedure or guidance
16 document? Did the dose reconstructor make a
17 mistake? Did SC&A make a mistake? Or just not
18 sure? And I entered that final section in
19 because I went through these 14 and I just
20 wasn't sure about one of them, and I didn't
21 have a category for it.

22 And Table Five kind of lists the

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1 findings, the type of error, the category I
2 placed it under, and the description. Now we
3 went through and I think our next step is to
4 go through the Rocky Flats Los Alamos findings
5 and NIOSH's responses and go through that.

6 I didn't include all that in this
7 document, because that also included the Los
8 Alamos, so I couldn't incorporate everything
9 into one document. So you'll probably have
10 questions on these, and we can discuss them in
11 our next segment.

12 Well, we can go through. The
13 first one, assigned missed photon doses were
14 not consistent with the DR report. I say
15 that's a DR error. And really it comes down
16 to two items. The DR report states that the
17 missed external dose was assessed as a best
18 estimate, but it was an overestimate.

19 So it gets a little wording issue.
20 And also, the DR report states that 238 zero
21 readings for missed dose were used, when
22 actually only 196 were used. I kind of look at

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1 this as a quality error. You know, you say one
2 thing, you did another. On the second one,
3 this is a little tricky one, and NIOSH gives a
4 very good description in the -- when we go
5 through their responses of the findings, but
6 for a year, 1958, there was a dosimeter
7 reading.

8 Well, it was a little confusing on
9 our part because they assigned a shallow dose
10 in 1958, but didn't assign a deep dose until
11 '59. So we're going through and trying to do
12 the bookkeeping, it didn't add up for the
13 year, individually.

14 And we thought that was a little
15 unusual. The third finding, inadequate
16 information --

17 CHAIRMAN GRIFFON: Can I just
18 interject?

19 MR. FARVER: Sure.

20 CHAIRMAN GRIFFON: I'm wondering,
21 just from a process standpoint, we're starting
22 to go into the individual findings, and I

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1 think that might be better served at a
2 different point in our agenda.

3 MR. FARVER: Well, yes, it's how
4 much you want me to go into these.

5 CHAIRMAN GRIFFON: Right. And at
6 some point, these are, I mean, you start
7 grouping these, these are matrix 10 through 13
8 findings from Rocky Flats, and we have
9 responses from NIOSH on all these?

10 MR. FARVER: Yes.

11 MR. STIVER: And we have an
12 updated matrix and all that.

13 MR. FARVER: Yes.

14 CHAIRMAN GRIFFON: And you updated
15 the matrix?

16 MR. STIVER: Yes.

17 CHAIRMAN GRIFFON: Alright. So I
18 mean, I think right now, I'd prefer to speak
19 to the larger purpose of this report.

20 MR. FARVER: Okay, the format for
21 this document was to go through and give a
22 basic description of the deficiencies and how

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1 it all related to PERs and SECs and so forth.

2 CHAIRMAN GRIFFON: For instance, I
3 mean, I'm looking at the -- you know, this
4 whole question of: were issues that were
5 identified as SEC issues later, were they
6 identified in the reports or whatever?

7 Looking at Table Three, I'm trying to, you
8 know, figure out, out of the eight, you have
9 five that ended up in the SEC; of those five,
10 in each one of those documents, did you, in
11 that summary section -- first of all, I don't
12 know when we started, SC&A started
13 implementing that 1.3 or whatever section John
14 referenced, where you would say the findings
15 were sort of in process at the Site Profile
16 level? Did all those five cases have that
17 identified in their report that's been issued?

18 MR. FARVER: Yes.

19 CHAIRMAN GRIFFON: Yes, so it was
20 on the table, right? So, in terms of gaps or
21 stuff missing, it's not necessarily that you
22 missed it. You knew it was there, you knew it

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1 was an issue. It's just, it might not be in
2 our matrices, and that might be where, you
3 know, we, as the Subcommittee, sort of miss
4 it, because we pay more attention to the major
5 findings than the body of your reports.

6 You know, I mean, that's just
7 something that we need to figure out how,
8 going forward, we don't lose that information,
9 you know?

10 MR. FARVER: And it may be my
11 fault, because I was under the impression that
12 the Site Profile findings were being handled
13 by the site Work Group.

14 CHAIRMAN GRIFFON: Yes, and I
15 think you're right, and we'll, I think that's
16 the next discussion moving forward.

17 MR. FARVER: And that's the basis
18 why I didn't want to track them in two
19 separate groups.

20 CHAIRMAN GRIFFON: Right. I just
21 sort of want to, I think it's important that,
22 you said, "Did we identify any of these cases,

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1 did we identify SEC issues?" The answer is no,
2 you said.

3 MR. FARVER: Well, that's not
4 quite correct. From our findings, we did not.

5 CHAIRMAN GRIFFON: From your
6 findings, you did not?

7 MR. STIVER: Yes, the findings
8 didn't describe what was the basis for the
9 SEC.

10 MR. KATZ: Right, but the dose
11 reconstruction case review did.

12 CHAIRMAN GRIFFON: Did capture it.

13 MR. KATZ: It's just that issue
14 that we're talking about here. I mean, it
15 wasn't in your findings, and that -- we can
16 think about that because that's just a
17 consequence of the fact that the only findings
18 that you resolve here are a different set of
19 findings, not the findings that are being
20 dealt with by a Site Profile group.

21 CHAIRMAN GRIFFON: Right.

22 MR. KATZ: SEC group. But they

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1 were captured in the case review and that
2 actually is kind of heartening.

3 CHAIRMAN GRIFFON: Right, right.

4 MR. KATZ: But there's a balance
5 there.

6 MR. STIVER: And if we get a case
7 review that has, like a partial reviews, where
8 an SEC has been granted, that will be in the
9 description with the dose reconstruction.

10 CHAIRMAN GRIFFON: Right. So I
11 mean, I think that's yes, like Ted said,
12 that's a good thing that we did identify it in
13 all cases, realize that it was in process, but
14 you know, the question going forward is how to
15 communicate this information to the external
16 world, and also make sure amongst all our Work
17 Groups and Subcommittees that we know where
18 all these things are.

19 They're in different bins, but we
20 know what's going on. But I think part of
21 Jim's concern was: you know, are we giving a
22 sort of misrepresentation of how, you know,

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1 like when we say there were no findings that
2 changed the compensability of these cases,
3 you're saying, well, in fact, there's seven
4 resulted in SECs later, is that sort of, you
5 know, misleading --

6 MR. FARVER: I think part of it
7 is: the DR reviews are just a piece, the Site
8 Profile reviews are a piece, and when we do
9 SEC reviews, that's a piece.

10 CHAIRMAN GRIFFON: Yes.

11 MR. FARVER: And so, you know, if
12 you want to go and look back and say: have we
13 already identified any issues that have turned
14 into SECs? That's a separate question and you
15 have to go look at all the pieces.

16 CHAIRMAN GRIFFON: Right, exactly.
17 Well, that's what I'm saying. When you say
18 you didn't find any of these things, that's
19 true in the spirit of the revision of the
20 findings. But you did acknowledge that it was
21 --

22 MR. FARVER: Just a small piece.

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1 CHAIRMAN GRIFFON: Right.

2 MR. FARVER: Okay, we don't have
3 to go through all these findings, and I mean,
4 you kind of get the gist of it. We'll be
5 revisiting them shortly.

6 CHAIRMAN GRIFFON: Any other
7 questions on the bigger -- the look-back and
8 these two are picks, not the individual
9 findings?

10 MR. FARVER: Yes, I think in, you
11 know, in the broader sense really, the
12 conclusion we're drawing is that there has to
13 be some mechanism in place for, you know, the
14 different components that are measured to
15 inform, you know, this Subcommittee of the
16 current status and some way to incorporate all
17 that into the final product.

18 CHAIRMAN GRIFFON: Well, I think
19 the struggle we've had, you know, from the
20 beginning, was that a lot of times, we didn't
21 want to hold up all these reviews to wait for
22 one global issue to be resolved, which was in

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1 another Work Group or another Committee, so we
2 pushed forward, understanding that these
3 issues were being worked on, not necessarily
4 within the case reviews.

5 And I think it's just a matter of,
6 like you said, making sure we acknowledge
7 what's happening at all levels. I guess the
8 other -- I mean, another challenge we've had
9 is always that these case reviews are ahead of
10 bigger work.

11 And the resolution for something
12 like the NDRP issue at the SEC level, you
13 know, took a while, so we're closing out cases
14 before we have resolution on some big issues.
15 You know, so that's the --

16 MR. KATZ: I think one thing you
17 can do to handle this better and to reflect
18 that sort of integration, is that when the
19 Dose Reconstruction Subcommittee reports out
20 in the future -- in the past, it's focused
21 just on the findings. And so it misses these
22 instances where there are other findings in

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1 effect, but they're on hold because they're
2 being dealt with in another venue.

3 So the report could acknowledge
4 not just the findings, but also these other
5 pending matters where a case review has
6 identified, you know, a potential concern
7 that's being resolved elsewhere. You could
8 have a section of the report that addresses
9 those methodological issues that are being --

10 CHAIRMAN GRIFFON: I'm thinking
11 that could cover every case, though, don't you
12 think?

13 MR. KATZ: Yes.

14 CHAIRMAN GRIFFON: I mean, every
15 case that we -- if we have a lump of 30 cases
16 and they cover 10 sites, almost every Work
17 Group is still in process, you know, with
18 outstanding findings to be resolved.

19 MR. KATZ: But the cases may not capture
20 all that. I mean, that's what we -- again, we
21 want the cases to capture that. We want the
22 cases to identify those issues, but --

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1 CHAIRMAN GRIFFON: Yes, but I
2 mean, if we report out on 30 cases and say,
3 you know, these 30 cases, in all cases we
4 resolved all findings, no major findings.
5 Except that all 30 of these cases have pending
6 issues in other Subcommittees, I think that's
7 kind of like -- why even issue a report, you
8 know?

9 (Laughter.)

10 CHAIRMAN GRIFFON: No, I mean, I'm
11 not trying to be --

12 MR. KATZ: Yes, but that's not
13 what you would say, I guess.

14 CHAIRMAN GRIFFON: Okay. Well,
15 how would we say it?

16 MR. STIVER: I don't know. We've
17 been sensitive in terms of binning these cases
18 by site and looking at what are the site
19 issues that are still at play that are going
20 to eventually impact these cases.

21 CHAIRMAN GRIFFON: Yes, binning
22 them, I think that we all agree that's

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1 something that's --

2 MR. STIVER: Yes, it might make
3 organizing this report a little easier.

4 CHAIRMAN GRIFFON: Yes.

5 MR. STIVER: And more informative
6 to the Secretary.

7 CHAIRMAN GRIFFON: But still, if
8 we bin, you know, we do LANL next, then do you
9 delay reporting out on the cases until the
10 Site Profile Group is done with the work on
11 LANL? You know what I'm saying? Or do you
12 still have some of these? Because the pending
13 issues are usually some of the bigger issues.
14 They usually impact a lot of cases.

15 MR. STIVER: Well, I guess it
16 depends on what you expect to get out of the
17 cases themselves. If we were looking at --

18 CHAIRMAN GRIFFON: Well, that's
19 why --

20 MR. STIVER: -- the quality aspect
21 of it, then you can go ahead and report as to
22 what we find, you know, go ahead, there's

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1 still issues at play here that are not going
2 to be reflected in these cases because they
3 still haven't been resolved.

4 But at the time that the case was
5 done, this was the snapshot in time, and it's
6 kind of a limitation of the process as it's
7 evolved.

8 CHAIRMAN GRIFFON: Again, I'm
9 thinking of what we might want to do going
10 forward.

11 MR. STIVER: Yes, I was looking at
12 Lew Wade's Phase One report and he kind of
13 separated out these different elements in a
14 way that seemed pretty reasonable as maybe a
15 template for --

16 CHAIRMAN GRIFFON: What do you
17 mean? Can you elaborate?

18 MR. STIVER: Just looking at, this
19 is from back in 2011. The ten-year Phase One
20 report, this is kind of the summary of it.
21 But it talks about how the different types of
22 dose reconstructions, the reworks, partials,

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1 the Site Profiles and procedures, the aspects
2 of, you know, the SEC that comes into play.

3 In trying to develop this going
4 forward, a lot of this looks like it's kind of
5 been laid out, you know, there's sort of like
6 a template, if you will, that maybe we can
7 build on. Like I said, if we do it right --

8 CHAIRMAN GRIFFON: Oh no, no, no,
9 I'm just trying to figure out what new was in
10 there that hasn't been said already.

11 MR. STIVER: Yes, there's nothing
12 really new in there, but you still have the
13 issue of what is to be expected from the DR
14 audit.

15 MR. KATZ: Let me just take back
16 some of what I just said we wouldn't say. We
17 could have, I think you could have a report to
18 the Secretary that lays out what you already
19 lay out in terms of findings and so on, and
20 then says, you know, "Within these 200 cases
21 that have been reviewed, we have seven sites
22 for which we have procedural issues, we have

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1 concerns, and we're exploring, you know,
2 through these other means."

3 And you could say it pretty
4 succinctly, but it would indicate that there
5 are outstanding procedural issues about how
6 best processes are done that impact on the
7 quality or validity of those dose
8 reconstructions for those, whatever they are,
9 seven sites, five sites, whatever it might be
10 that's implied.

11 I think that would be a more
12 accurate picture to give to the Secretary than
13 simply the accounting that we do now, which is
14 just based on this sort of narrower band of
15 findings.

16 CHAIRMAN GRIFFON: Right.

17 MR. KATZ: I think that would then
18 reflect the state of the quality --

19 CHAIRMAN GRIFFON: Well, I agree,
20 I wasn't completely making a joke about it, I
21 think that's more accurate to put it that way.
22 At least it puts a -- well, it's not really a

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1 qualifier in there, but it at least says there
2 are still outstanding issues, but then it
3 does, and it will, I think it will come out
4 that what we're doing here is more on the
5 quality type of issues.

6 And the bigger science issues tend
7 to be playing out on the Site Profile
8 committees.

9 MR. STIVER: And it's
10 acknowledgment of the status of each
11 particular site.

12 CHAIRMAN GRIFFON: Right.

13 MR. KATZ: And it wouldn't just be
14 site-specific, it would be procedure-specific,
15 too, because, for example, for a long time you
16 had the ingestion issue. That was still sort
17 of under resolution.

18 MR. FARVER: It might be important
19 to point out what the different groups do.
20 You know, because you have the Site Profile
21 reviews, you have procedure reviews that
22 impact multiple sites.

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1 MR. KATZ: I think the Secretary
2 isn't interested in much process, the
3 Secretary is just interested in results, but
4 again, you could do that very succinctly,
5 address those issues that are still on the
6 table being examined by the Board.

7 The Secretary doesn't care what
8 part of the Board is doing that, the Secretary
9 would just be interested to know that, you
10 know, for so many sites or for so many
11 particular issues, you know, the Board is
12 working on those with NIOSH.

13 MR. FARVER: It might be
14 worthwhile to consider --

15 MR. KATZ: I think that's sort of
16 innovative.

17 CHAIRMAN GRIFFON: It might be the
18 best we can do, I mean.

19 MR. STIVER: But having said that,
20 it might be a good idea to have at least some
21 process information out there so they would
22 understand why all these things are in

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1 disparate states of completion.

2 MEMBER KOTELCHUCK: Is this what
3 you want to report to the Secretary, or do you
4 want this to be internal document for the
5 Board and staff to just keep an eye, I mean,
6 so that we, you know, three weeks from now,
7 will I remember what we were trying to keep in
8 mind, what balls are up in the air?

9 Honestly, I won't, and it would be
10 valuable to have it somewhere on paper so that
11 or in the computer so that I can double-check
12 it and that will help a lot. That would help
13 certainly me a lot.

14 MR. KATZ: I mean, there's
15 different parts of the Board dealing with
16 different pieces. No one Board Member is
17 going to know, and I'm probably exposed to
18 more than most individual Board Members
19 because you're all spread across different
20 Work Groups and Subcommittees, but I think
21 it's nice integrating for the reporting to the
22 Secretary, which is something we have to do as

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1 a Board.

2 And the other thing you can do,
3 also, is to address in those reports, not just
4 issues that are still pending, getting
5 resolved, but those that have been put to bed.
6 So, I mean --

7 CHAIRMAN GRIFFON: Sure.

8 MR. KATZ: -- it would be nice,
9 also, for example, the ingestion which has
10 been put to bed, finally, I think, or just
11 about. You know, that'll be a good place to
12 report and consolidate that, too, that these
13 improvements have been made in the NIOSH
14 program.

15 MR. STIVER: Yes, there's been
16 quite a few of them.

17 MR. KATZ: So I guess what I'm
18 saying is, I mean, you could just sort of
19 broaden this dose reconstruction review
20 report. It was focused just on the case
21 review alone, and you could broaden it a
22 little bit so that it covers, really --

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1 CHAIRMAN GRIFFON: The report can
2 be broadened?

3 MR. KATZ: Yes, exactly.

4 CHAIRMAN GRIFFON: Yes, yes.

5 MR. KATZ: Because again, the
6 Secretary, you know, that's what the Secretary
7 wants to know. This program, how's it doing?

8 CHAIRMAN GRIFFON: Yes, and it
9 always is generated as a report from the full
10 Board anyway, it's not a Subcommittee report,
11 so. No, that makes sense.

12 MR. STIVER: What kind of a
13 timeline are we looking at as far as --

14 CHAIRMAN GRIFFON: For a report?

15 MR. STIVER: Providing a report to
16 the Secretary?

17 CHAIRMAN GRIFFON: Oh, I don't
18 know. We haven't done one in a while. I
19 think that was the pressure, you know?

20 MR. KATZ: And I think from the
21 last Board discussion we had, I think there
22 was considerable pressure to get to that state

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1 pretty soon, which is why we tried to
2 consolidate and fast-track some of this.

3 We're on this 10 to 13 sets and
4 maybe want to be thinking about, as you close
5 out Set 13, that being a good place to report
6 out.

7 MR. STIVER: Yes, that might be a
8 good spot to stop. Within the next six months
9 or so, hopefully?

10 MR. KATZ: Yes, I would hope so.

11 CHAIRMAN GRIFFON: We've reported
12 on one through five only?

13 MR. KATZ: Yes. Our first hundred
14 cases, whatever that was.

15 MR. STIVER: I think it was the
16 first five sets.

17 MR. KATZ: So yes, I think within
18 the next six months to have a report to the
19 Secretary would be a good thing, yes?

20 MR. STIVER: Yes.

21 MR. KATZ: Sort of nice, thinking
22 of the new administration, too, so good timing

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1 that way.

2 MR. STIVER: Along the lines of
3 what Dave was saying, as far as informing some
4 of the Board Members who might not have the
5 broad spectrum, it might be a good idea to
6 have some kind of internal presentation.

7 MEMBER KOTELCHUCK: I'm not sure what
8 some of the other Subcommittees that I'm not
9 on are doing, like the Procedures
10 Subcommittee.

11 MEMBER MUNN: As much as possible,
12 given the limitations we're --

13 MEMBER KOTELCHUCK: And that would
14 be useful.

15 MR. HINNEFELD: It's optimistic to
16 know what the Subcommittees you are on are
17 doing.

18 MEMBER KOTELCHUCK: Right, but if
19 we do it for the various Subcommittees.

20 MR. STIVER: If you're not
21 intimately involved in these things, it can
22 slip away really quickly.

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1 MEMBER KOTELCHUCK: Well, okay.

2 MR. KATZ: Or Stu was saying, even
3 if you are.

4 CHAIRMAN GRIFFON: I'm just trying
5 to think of a way that you can, now that we're
6 binning the cases, you know, doing Rocky
7 Flats, doing -- although, as we get the
8 smaller sites, obviously we're still going to
9 have some single case reviews.

10 But as you do that, is there a
11 way, since oftentimes when we're working on
12 these, we're looking at the matrices. Is
13 there a way to capture that Section 1.3 in the
14 Rocky Flats matrix? Maybe if you're binning
15 them by site --

16 MR. STIVER: If you're doing them
17 by site, it certainly makes it a lot easier.
18 Also, communicating with the Work Group Chair
19 to get the information you need for updates.

20 CHAIRMAN GRIFFON: Right, because
21 that would be helpful just to keep us abreast
22 of, you know, these are all Rocky Flats

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1 findings. Remember, in Section 1.3 of all
2 these reports we included, these are still
3 open findings, or whatever.

4 MR. FARVER: Well, we don't know
5 if they're open. We don't know what has been
6 closed or what has been opened until we go
7 back and look at revisions that have been
8 made.

9 MR. STIVER: So that was the value
10 of John's report, because he was able to show
11 the status of where we are now relative to
12 where we were.

13 CHAIRMAN GRIFFON: So you don't
14 know, you'd have to look back.

15 MR. FARVER: We'd have to go back
16 and look at each one.

17 CHAIRMAN GRIFFON: Because these
18 cases were done a while for you, yes. Oh,
19 right. Yes.

20 MR. FARVER: That was the reason we
21 found it might be useful to do one of these
22 look-backs for each of the sets we discuss,

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1 and if that was part of the Subcommittee
2 discussion.

3 CHAIRMAN GRIFFON: It does add
4 another layer of work, you know?

5 MEMBER MUNN: A rather extensive
6 layer.

7 MR. KATZ: Yes, I don't think we
8 want to do that, I think we really just want
9 to just answer the question with however many
10 we had to look back at. We just wanted to
11 answer the question at this point, how are
12 these cases kept --

13 CHAIRMAN GRIFFON: Yes, I agree.
14 But if we're going to report out at the end of
15 the 13th set, I think we'd want to know sort
16 of at this time, here's the remaining open
17 issues at these sites.

18 MR. STIVER: Right, right. Here's
19 our progress to date, here's what still
20 remains.

21 CHAIRMAN GRIFFON: Right.

22 MR. FARVER: Now, if you could

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1 task that to each of the Work Groups to look
2 at those Site Profile findings and report back
3 to us how many have been resolved.

4 CHAIRMAN GRIFFON: Yes.

5 MS. LIN: And then start with
6 LANL?

7 MR. STIVER: Doug, you're taking
8 work away from us?

9 CHAIRMAN GRIFFON: Start with
10 LANL, yes, assume they're all standard.

11 MR. STIVER: Yes, and Rocky is one
12 of those few examples where, you know, there's
13 been extensive revisions and all the workbooks
14 and so forth have been updated. It's made it
15 a good candidate for a trial, a pilot, I
16 think.

17 CHAIRMAN GRIFFON: Yes.

18 MS. BEHLING: This is Kathy. I
19 hate to add this to the mix, but I have to
20 say, it would have been nice if we could have
21 had a database like Wanda's procedures
22 database where all of the Work Groups could

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1 have fed in their findings --

2 CHAIRMAN GRIFFON: I knew that was
3 coming from Kathy.

4 MR. KATZ: Stop, stop.

5 MR. STIVER: I'm glad you said it,
6 because you saved me the trouble.

7 MS. BEHLING: I'm sorry, but that
8 would certainly be helpful for everyone, if
9 you had a database that all of the Work Groups
10 could feed into and we could all look at that
11 database and see where is that Work Group and
12 where is the findings?

13 MEMBER MUNN: And how many things
14 are closed.

15 MS. BEHLING: Having a database is
16 a lot of work, but it has certainly, I think,
17 paid off and, I think, Wanda can comment on
18 that, if she'd like.

19 MEMBER MUNN: I wasn't going to
20 say anything, Kathy.

21 MS. BEHLING: Sorry.

22 MEMBER MUNN: It's all right.

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1 MR. STIVER: Well, the Board
2 Review System gets us about 90 percent there,
3 it's working magnificently in the Procedures
4 Subcommittee.

5 MEMBER MUNN: Yes, catches it very
6 well. Makes it easy to check anytime. By
7 anyone.

8 CHAIRMAN GRIFFON: So yes, I'm not
9 sure where we are now with that, other than
10 the sidetrack of my brain going to thinking
11 about the database issue. I mean, I think
12 part of my concern with the database was that
13 you lose exactly that, when you start talking
14 about pie graphs and the closed 90 of 101, and
15 therefore we're almost successful -- you know,
16 you got an A for a grade.

17 You know, and people lose the --
18 you're not reading the findings. Maybe the
19 database has evolved a little bit, but
20 initially, I remember, you couldn't even get
21 to the documents in the database.

22 MR. STIVER: You can have

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1 attachments and links and it's really quite
2 nice. A list of the findings, who made the
3 comment and when it was resolved and so forth.
4 If we could have a situation where Work Group
5 Chairs could feed in as findings are resolved
6 in their Site Profile reviews, could go in and
7 it would be a situation where ideally, you'd
8 be able to open up a case and look through the
9 relational database, see every issue and
10 document that pertains to that and how it's
11 been addressed.

12 MEMBER MUNN: It's not the
13 flexibility of the program that's now the
14 issue, the issue is whether it is considered
15 usable by the people who could be using it.

16 MR. STIVER: Right.

17 MR. KATZ: What we talked about
18 doing in the Procedures Subcommittee for the
19 rest of the Work Groups is having SC&A staff,
20 at least, start using it for each Work Group
21 instead of doing these independent matrices,
22 start using it as the matrix generator, et

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1 cetera.

2 CHAIRMAN GRIFFON: And I think
3 you're actually -- didn't you start to
4 construct one for the DR Subcommittee?

5 MR. STIVER: Well, we haven't
6 actually done it, we're still using the matrix
7 and working back and forth with Scott and
8 folks over at DCAS.

9 CHAIRMAN GRIFFON: No, but I
10 thought you initially --

11 MR. STIVER: We haven't actually
12 generated a separate database. We have the
13 old database, the old access database.

14 CHAIRMAN GRIFFON: Oh, okay.

15 MR. STIVER: Which we used to use.

16 CHAIRMAN GRIFFON: Yes, yes.

17 MR. STIVER: But we could easily
18 resurrect that. It still wouldn't be
19 something that we'd dovetail into the --

20 MR. KATZ: The DR Subcommittee, we
21 talked about in the Procedures Subcommittee,
22 is the least good fit, right, for the --

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1 MR. HINNEFELD: DR is probably the
2 least good fit, they would have to design some
3 business rules, because it's the -- the
4 procedures review is sort of document-based,
5 you know, this is the document we reviewed,
6 here are the findings of that.

7 CHAIRMAN GRIFFON: Right.

8 MR. HINNEFELD: And so then when
9 you get to dose reconstruction, you have to
10 draw some rules about: what is the thing we
11 reviewed? Is that thing we reviewed the Set 1
12 report or, you know, say the Set 11 report, or
13 a group of dose reconstructions to go over?

14 Or is each reviewed case a
15 document that was reviewed? I think that's
16 the fundamental business rule to this decision
17 that has to be made. Once we do that, if we
18 said, for instance, each case reviewed is its
19 one own, quote, "document," from then it seems
20 pretty analogous to the procedures process.

21 Because you have a series of
22 findings under that document that get loaded

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1 and then the conversation and resolution can
2 occur. I mean, if that's the business rule we
3 make, then that can be done.

4 Now that puts some 300 additional
5 documents into the system, and there'd have to
6 be some sort of naming convention that we
7 would stick to very rigorously, so that
8 everything would work.

9 But that seemed to me to be the
10 easiest fit to get that process to work, that
11 application to work on these.

12 MR. STIVER: Okay.

13 MR. KATZ: One thought I had that
14 might be a consolidating rule for that, but it
15 has an issue with it, would be if you did it
16 by site, case sets by site, as opposed to case
17 sets. But the problem is: some cases, of
18 course, cross numerous sites, so I don't know
19 if that works, but otherwise -- I mean,
20 especially now that we're going down the track
21 of reviewing Rocky Flats cases and then
22 reviewing LANL cases and sort of work with

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1 that, but --

2 MR. STIVER: I wish we had a -- we
3 could have a category for multiple sites, but
4 I don't know if that would work in real
5 practice, but I was thinking, when Stu was
6 talking, that that would be a good idea for,
7 you know, looking at it by site, because a lot
8 of the findings are going to be similar.

9 So you want to track all these
10 findings for all these different documents
11 that are essentially the same thing, or do you
12 want to look at by site? Here are the findings
13 of these cases, you know.

14 MR. KATZ: Yes, it'd make the
15 relational issues much easier, for that
16 matter, right?

17 MR. HINNEFELD: If you want to
18 pursue this, we should have a design meeting
19 with our developer group. And whoever wants
20 to be engaged in this design meeting can let
21 me know, and we'll try to set something up.

22 Doug should definitely be there,

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1 Wanda, since you're common to both, you'd be a
2 good one to be there. Mark, yes. And John.

3 MR. STIVER: And possibly, I don't
4 know who you would want from IT, we have a
5 very good database person at SC&A, Don Loomis.

6 MR. HINNEFELD: If we're going to
7 use our application, our people are going to
8 want to do it. I mean, I've got no knock
9 against it, and the people I've worked with on
10 your side, the database people that I worked
11 with, I've got a lot of respect for.

12 Our data people are going to want
13 to do it, so if we're going to build it, make
14 it a module, what it would be would be a
15 module of what we call the Board Review
16 System. It's not called procedure review
17 system, it's called Board Review System.

18 You make a module there, you
19 design it so then when you select one of the
20 drop-downs of which Work Group you want to
21 look at, then you would pick "Dose
22 Reconstruction Subcommittee" and it would pull

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1 up then the documents that were reviewed by
2 the Dose Reconstruction Subcommittee. And
3 that would be --

4 MR. STIVER: And you could put all
5 the other Work Groups in, too, ideally, right?

6 MR. HINNEFELD: Most of them are
7 already on there on the menu. So, okay, and
8 then we'll bring probably Laurie, because
9 she's familiar with the other one. But we'll
10 bring some folks from our side, and then we
11 can set this up, and I guess we'd do this
12 telephonically, although sometimes it works
13 better in person.

14 MR. KATZ: Well, we could travel
15 to the facility, too, you know.

16 MR. HINNEFELD: Up to our place.

17 MR. STIVER: We've done that
18 before.

19 MR. KATZ: Yes, and then people
20 who can't travel can connect to the phone.

21 MR. HINNEFELD: Okay.

22 MR. STIVER: I want Kathy to be on

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1 it, too.

2 MR. HINNEFELD: How about
3 timing-wise for the design meeting? What are
4 we looking for? The Board meeting's in two
5 weeks, you want to try to get it in before
6 then?

7 MR. STIVER: No.

8 MR. HINNEFELD: Okay.

9 MR. STIVER: After that we've got
10 the holidays.

11 MR. HINNEFELD: After that we're
12 getting into the holidays, so we're looking at
13 the start of --

14 MR. STIVER: Early in January.

15 MR. KATZ: When it can be
16 arranged.

17 MR. STIVER: Do what we got to do,
18 yes.

19 MR. HINNEFELD: Okay, I think that
20 we'll take that, we'll start looking for
21 potential dates in January, and I'll include
22 Ted in any correspondence, and the people I

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1 can think of who should be there. I can copy
2 off, I'll copy all Subcommittee Members so
3 whoever can chime in to be there or not.

4 And then we'll start looking for
5 available dates in the calendar in January.

6 I don't have a lot of January to work with.
7 First part of January, kind of available.

8 Okay --

9 CHAIRMAN GRIFFON: The design
10 process should be faster since Wanda's worked
11 most of the bugs out, right?

12 MR. HINNEFELD: We've got a --

13 MR. STIVER: Actually, it's pretty
14 amazing.

15 MR. HINNEFELD: We've got a system
16 that we'll want to be making this a module of,
17 so there'll be some constraints, and we'll be
18 working within those constraints. But, okay.

19 We want to come in with the ideas of what we
20 want to be able to do with, you know, when we
21 have all these findings in there, how do we
22 want to look for them, how do we want to grab

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1 them?

2 Because there could be some data
3 fields we're going to have to add in order to
4 be able to do what we want to do.

5 MR. FARVER: Would this also
6 incorporate the Site Profile findings?

7 MR. HINNEFELD: Yes, it's built
8 to. It's built to.

9 MR. FARVER: Aren't those pretty
10 much covered in the procedures, the Site
11 Profile issues?

12 MR. HINNEFELD: Actually, no.

13 MR. FARVER: Are we going to have
14 any TBD issues in there?

15 MR. HINNEFELD: No.

16 MEMBER MUNN: You have TBDs --

17 MR. HINNEFELD: Most of the Site
18 Profile reviews are not in there because the
19 findings on the Site Profile Reviews are dealt
20 with in matrices by the individual Work Group.

21 MR. FARVER: But we want to do
22 that.

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1 MR. STIVER: Eventually we'd want
2 to migrate that over to the --

3 MR. HINNEFELD: And the system was
4 built with the idea that those would all be
5 moved in there, also.

6 MEMBER MUNN: That it would all
7 eventually be encompassed.

8 MR. HINNEFELD: Yes.

9 MR. STIVER: So limit this meeting
10 to just the cases or try to tackle all the
11 issues?

12 MR. HINNEFELD: I think the first
13 step would be, if we want to move this
14 Subcommittee there first, the design meeting
15 should be this Subcommittee. We want these
16 findings in there. And then we'll have an
17 additional group of Board Members who are
18 familiar with the application and we'll have
19 maybe more, maybe some of these Board Members
20 on site-specific Work Groups they're on will
21 say, we think this is worthwhile, let's move
22 this design into now our -- now the design

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1 should be less once you get to one site.

2 Once you do one site, you would
3 hope that all the rest of them would be in
4 position --

5 MR. STIVER: The rest of them
6 should fall in line.

7 MR. HINNEFELD: Right, you've got
8 a design for all of them.

9 MEMBER MUNN: Yes.

10 MR. HINNEFELD: So, but this would
11 be the hard design.

12 MR. STIVER: The first one is the
13 tough one.

14 CHAIRMAN GRIFFON: Well, I mean, I
15 think the big factor convincing me is that you
16 have the other site Work Groups. I mean, I
17 think if those aren't there, I still don't see
18 the great improvement.

19 MR. HINNEFELD: It's all built.

20 MR. KATZ: There's nothing else --

21 MR. HINNEFELD: Nothing prevents
22 us from working today. I'm sorry, Ted.

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1 MR. KATZ: Sorry.

2 MR. HINNEFELD: Nothing prevents
3 us from working today except -- I'm sorry if I
4 want to talk over top of you anyway.

5 Nothing prevents us from doing that today,
6 except loading in what the most current matrix
7 is, and then I don't know how much history we
8 can reconstruct to put in there, but we could
9 get in where we are today on maintenance.

10 MR. KATZ: So what I was going to
11 say, which is consistent with what Stu was
12 saying, is what we agree is that we would
13 start doing this going forward, not
14 retrospectively, but there's nothing stopping
15 us now.

16 The system's built to use for a
17 Work Group that's reviewing, for example, a
18 Site Profile. That's a document. That goes
19 in, there's no trouble putting that document
20 in, the Site Profile, all those TBDs.

21 There's no problem putting in the
22 reviews from SC&A, that's all set up and ready

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1 to go, to pop it in. And there's no problem,
2 then, beginning to use the matrix that's built
3 into the system already to capture findings
4 and their state of resolution and all that.
5 That's all built in already.

6 So it's really just starting to
7 use it. That's all that's needed. For the
8 Work Groups that -- I mean, the one limitation
9 will be that, for a lot of Work Groups that
10 already covered, you know, a lot of water
11 under the bridge, that won't already be put
12 into the system, all of that history of what's
13 been resolved. That won't be there. But going
14 forward, it would be easy to start up using it
15 tomorrow for any given Work Group, I think,
16 right?

17 MEMBER MUNN: Any site-specific
18 Work Group.

19 MR. KATZ: Right, that's what I'm
20 talking about, site-specific.

21 MR. STIVER: And really, how hard
22 would it be to load up the history? Once you

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1 have the module in place, then you can
2 populate it with all the documents pertaining
3 to that particular site.

4 MR. KATZ: Yes, absolutely.

5 Documents are not a problem. It's all the
6 issue resolution, some of that history would
7 be harder to --

8 MR. STIVER: Yes, it'd be tough.

9 MR. KATZ: But yes, it can all be
10 put in, it's just it's a good bit of work.
11 It's a lot of loading.

12 MEMBER MUNN: It would be, and it
13 would be very time-burdensome for someone to
14 be --

15 MR. STIVER: Well, at least to
16 have it going forward, we certainly have that
17 --

18 MEMBER MUNN: Well, yes, but site-
19 specific Work Groups, as Ted said, can drop
20 into it immediately.

21 MR. HINNEFELD: Steve Marschke
22 would be a good attendee.

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1 MEMBER MUNN: Yes.

2 MR. STIVER: Oh, absolutely.

3 CHAIRMAN GRIFFON: Well, we can
4 have, this may be more detail for the design
5 discussion, but for the DR segment, I think
6 starting at the 6th set of cases going forward
7 would be helpful. Even though we closed out
8 the six and seven, we haven't reported out on
9 those, so it would be nice to have them.

10 MEMBER MUNN: Well yes, but we
11 have records of them, our records are good.
12 It just will have to be a slightly different
13 mechanism for input, that's all.

14 CHAIRMAN GRIFFON: And on those,
15 you won't have the history of the back and
16 forth, but you'll at least have the final --
17 okay. All right, I think we're on the next
18 item. Maybe we should take a ten-minute
19 break.

20 And then come back, and we want to
21 talk about the DR method going forward.

22 MR. FARVER: You want to do that

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1 first and then go into the specific findings
2 later?

3 CHAIRMAN GRIFFON: Yes.

4 (Whereupon, the above-entitled
5 matter went off the record at 2:51 p.m. and
6 resumed at 3:04 p.m.)

7 MR. KATZ: We're back on line,
8 Subcommittee on Dose Reconstruction Review.

9 CHAIRMAN GRIFFON: Okay. Moving
10 on to the next agenda item, which is the one I
11 wanted to start right after lunch, revisiting
12 the Board's Dose Reconstruction case review
13 process. Identification of options for path
14 forward. And you've sent us this -- this got
15 circulated to everyone, right? No, okay.
16 Have you circulated anything to everyone?

17 MR. KATZ: No.

18 CHAIRMAN GRIFFON: No, okay. All
19 right. Okay.

20 MR. KATZ: No, I haven't.

21 CHAIRMAN GRIFFON: I thought
22 everyone had those documents.

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1 MR. KATZ: No. And we can't
2 actually. We cannot have them.

3 CHAIRMAN GRIFFON: Okay. Alright.
4 The thing I'm speaking of is the, it's got
5 some of the background on the, from our past
6 approach and some possible ways to modify
7 that. So --

8 MR. KATZ: I mean, Mark, you have
9 distributed to everybody the old language on
10 the dose reconstruction methods, dose
11 reconstruction review methods. And, Mark,
12 you, before the last meeting you distributed
13 those to everybody. I don't if everybody has
14 spent any time --

15 CHAIRMAN GRIFFON: Does everyone
16 have those or?

17 MS. LIN: Mark, I think you need
18 to add me to your distribution list.

19 CHAIRMAN GRIFFON: Yes, I don't
20 know that I just, I think I sent it to Ted
21 last time.

22 MS. LIN: Yes, if it's from Ted,

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1 then I should have it.

2 MR. KATZ: So that goes back a
3 good deal of time.

4 CHAIRMAN GRIFFON: Was it in the
5 June meeting or I think we had an August
6 meeting, didn't we?

7 MR. KATZ: Yes, we had an August
8 meeting and so it would have been before that.

9 MEMBER MUNN: And so this was
10 August, you said?

11 (Simultaneous speaking.)

12 CHAIRMAN GRIFFON: I just thought
13 it would be something, you know, to initiate
14 the conversation. Okay. This isn't the right
15 document, this is ranking file.

16 MR. KATZ: No.

17 CHAIRMAN GRIFFON: Alright. So
18 let me, I'll just give an overview of what we
19 did initially and then sort of the idea going
20 forward or any of our ideas going forward.
21 And I think part of what we want to do is
22 update our internal procedure just on how we

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1 do these things. If nothing else, to reflect
2 the reality of what's going on right now.

3 I saw Doug's, no, I want a look of
4 concern because part of it was the, I think
5 the initial procedure was written when we
6 first started the Board two years in maybe.

7 And the process has evolved on the
8 Subcommittee. So what we're really doing now
9 is not exactly reflected in the initial
10 procedure. So at the very least we should
11 update our own protocol to reflect what's
12 happening.

13 But initially we had envisioned
14 something called an advanced review, a basic
15 review and blind reviews for the three types
16 of case reviews. And I guess what sort of
17 ended up happening was that a lot of the
18 questions that would be taken up in what I was
19 envisioning as a more advanced review, ended
20 up going to the Site Profile process.

21 So the questions of data integrity
22 or the questions of, you know, larger issues

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1 on like neutron dosimetry. Those type of
2 issues ended up going either to Site Profile
3 Work Groups or to, I don't know where we ever
4 been with things like ingestion or --

5 MR. KATZ: Procedures.

6 CHAIRMAN GRIFFON: Yes, I think
7 they ended up in Procedures, right.

8 MEMBER MUNN: Right and they're in
9 our, they're now incorporated in our process
10 as overarching issues we're tracking. Many of
11 them -- I shouldn't say many of them. Some of
12 them lie in the Work Groups of one sort or
13 another where they're actively pursuing them
14 rather than in Procedures but that's where
15 we're tracking them.

16 CHAIRMAN GRIFFON: Right, so, you
17 know, the question is, to consider is, you
18 know, I think the vision of advanced and basic
19 sort of evolved into, as Ted said earlier in
20 our side discussion, a hybrid of the two where
21 we weren't necessarily doing what I had
22 envisioned as an advanced, except in the case

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1 of the mini Site Profile type reviews.

2 I think those I would consider as
3 what I was originally thinking of as advanced
4 reviews because those are the cases where we
5 have an AWE site, we pull one case and there's
6 likely never going to be a, well in a lot of
7 those cases there is not a Site Profile
8 anyway. So we treated them as like, you know,
9 do the Site Profile and the case review all in
10 one, as one function. So that would be sort
11 of falling under the category of advanced
12 review.

13 The other ones tend to be more, as
14 we've seen a lot of the findings we're having
15 are more quality related and we may
16 acknowledge some of these bigger issues just
17 as we just discussed. But a lot of those are
18 being taken care of in the Site Profile
19 process.

20 And then there's the question,
21 which was our two agenda items ago, of the
22 blind reviews and where they fit into this

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1 process. So I guess that's what we want to
2 flush out. Do we think the current model
3 should be unaltered?

4 Do we, how do we want to, since we
5 really haven't done a lot with the blind
6 reviews, do we want to continue that? Do we
7 want to have more blind reviews, to what end,
8 what are they going to be, what's the utility
9 of them? And I guess that's the question on
10 the table.

11 MEMBER MUNN: Well my question
12 would be whether our current process is
13 illuminating any problems that we see that we
14 feel should be addressed that aren't. Or it
15 seems to me we've done a pretty good job of
16 identifying what we need to be looking at;
17 whether we're looking at it in the correct way
18 may be another issue for consideration.

19 But I'd be interested in hearing
20 what anyone might feel is a shortcoming in our
21 current approach. Revising what we're doing
22 is always a good idea if we see that we're

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1 leaving something significant out of our
2 process. If we're not then --

3 DR. MAURO: Wanda, this is John
4 Mauro. I've been on the line for a little
5 bit.

6 MEMBER MUNN: Well hi there, John.

7 DR. MAURO: Hi, and I've been
8 listening in. And I was just going to listen.
9 But it turns out I have, I'm doing something
10 right now that goes right to the question, at
11 least part of it that I wanted to just mention
12 to the group.

13 I'm actually reviewing a case
14 right now that comes out of Dow Chemical. And
15 you know the section in our DR reviews where
16 we call it Section 1.3, where we list all of
17 the issues that were identified by SC&A having
18 to deal with the Site Profile. And I think
19 everyone's familiar with that, it's what I
20 called Section 1.3. And we list the issues.

21 What I've just done that I think
22 goes a little bit toward what we're talking

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1 about is instead of just listing the issues,
2 since I'm so familiar with TBD-6000 and with
3 the various appendices that go with it, it
4 turns out Dow is part of that process, I put
5 in a paragraph under each of the original
6 findings that were associated with our review
7 of TBD-6000 and Appendix C of TBD-6000, which
8 deals with Dow.

9 And I put a paragraph in saying
10 where are we with regard to each of those
11 issues. And it turns out that an awful lot,
12 at least in the case of Dow and TBD-6000, all
13 of the original issues that we raised all the
14 way back since, you know, our first review
15 that we list in Section 1.3 now, have been
16 resolved.

17 And I put a little paragraph
18 saying this issue, you know, was resolved by
19 the, it could be the TBD-6000 or the Dow
20 process. So all I'm saying is that it might
21 be worthwhile when we do our DR reviews and we
22 put in the list of issues that deal with the

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1 Site Profile, in Section 1.3, that with a
2 little bit more homework and it wasn't that
3 difficult to do by the SC&A people working
4 with the other SC&A people saying okay, where
5 are we.

6 For example if it's Rocky, I get
7 in touch with Joe Fitzgerald. Joe, where are
8 we on issue number one? And you add a
9 paragraph so that right there in the DR
10 review, you know, in addition to doing what we
11 always do in putting in 1.3 issues, a little
12 paragraph saying what the status is of those
13 issues.

14 And that would bring, that would
15 make every one of the case, the DR review
16 cases, current and it would also alert the,
17 your Subcommittee to perhaps interact with
18 the, let's say the Rocky Subcommittee if there
19 are issues there that are still, either they
20 may have been addressed in a more recent
21 version of a Site Profile, but they have not
22 yet been resolved or they may have been

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1 addressed and resolved.

2 And all of that could be captured
3 when you do the actual DR. And I think it
4 could be done pretty easily by SC&A people
5 just simply talking to the other SC&A people
6 that are involved with that particular site.

7 And I would offer that up as at least a piece
8 of one way to sort of capture the current
9 status of affairs and marry Site Profile work
10 with DR review work.

11 CHAIRMAN GRIFFON: You can say
12 database now if you want. John, I don't know
13 if you heard. We were just discussing the
14 possibility of migrating the DR data to the
15 database, similar to the Procedures Committee.
16 So and then if we also did that with the Site
17 Profile, you know, that would make this
18 marriage maybe even easier, you know.

19 DR. MAURO: And you guys are way
20 ahead of me. Wonderful, beautiful, thank you.

21 CHAIRMAN GRIFFON: So you haven't
22 been on the call very long because we did that

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1 just before break.

2 DR. MAURO: I did catch a piece of
3 it. But I was thinking more in terms of that
4 1.3. But you folks have gone way past 1.3.

5 CHAIRMAN GRIFFON: I'm just
6 thinking of billable hours, you know. Anyway,
7 okay.

8 DR. MAURO: Okay, anyway. I had
9 my say, thank you.

10 CHAIRMAN GRIFFON: Good point,
11 John. We miss you at these meetings.

12 DR. MAURO: I miss you guys too.
13 Are you kidding me?

14 CHAIRMAN GRIFFON: So that is one
15 point and that's, yes, I agree with that
16 completely. But you know, I think the
17 challenge, I was talking with Ted a little bit
18 on the break and before this meeting was that,
19 I guess the, for me some of the gray area is
20 this area of you're doing a DR review and you,
21 you know, you I guess we don't want to get it
22 so narrow that it's only looking at the number

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1 in the NIOSH, you know, just a strict
2 procedure review.

3 You know, in other words did they
4 follow the procedure and their numbers match
5 our numbers that we got using the same
6 protocol. If something looks awry, it should
7 be noted in the report. And I, that might
8 fall into the things like John was saying, the
9 observations, you know, that you're, that you
10 make that, you know, might bring up other
11 issues that aren't really in the Site Profile.
12 You know what I mean, yes.

13 MR. FARVER: No, I don't. Could
14 you give an example of what you're getting at?

15 CHAIRMAN GRIFFON: Well, you know,
16 I guess, you know, if you're just looking at,
17 if it's just a strict I look at the DR Report,
18 this would just be another peer-review if
19 you're doing it, if you're going to have a
20 checklist and you're going down and saying,
21 okay, if I use procedure so and so as they've
22 prescribed and I put in this number I get the

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1 same number they got, check, right?

2 MR. FARVER: Well I mean that's a
3 big part of it.

4 CHAIRMAN GRIFFON: Yes.

5 MR. FARVER: There's the other
6 part is --

7 CHAIRMAN GRIFFON: That's the part
8 I'm interested in is the other part. What's
9 the other part, right?

10 MR. FARVER: The other part is can
11 you get the guy in the right building?
12 Neutron dose comes to mind.

13 CHAIRMAN GRIFFON: Yes, that's a
14 good one. That's a good example you just gave
15 my example.

16 MR. FARVER: -- neutron dose. So
17 we do look at those things.

18 CHAIRMAN GRIFFON: And the CATI
19 stuff is an example.

20 MR. STIVER: Yes, those are the
21 three elements really. You know, and that
22 last one is, you know worker placement and

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1 scenario development, that's probably the
2 biggest in terms of size. Those are the
3 category a, b and then the c and d were the
4 models, whatever those were.

5 MR. FARVER: And it's also things
6 like --

7 (Simultaneous speaking.)

8 CHAIRMAN GRIFFON: But I can think
9 of another one might be the assumptions on the
10 internal dose. You know that when you follow
11 procedures, you know, and according to
12 procedure their numbers work out, we got the
13 same numbers, however, we have some question
14 about the assumption for using Class N, you
15 know, and those kinds of things.

16 MR. FARVER: Yes.

17 CHAIRMAN GRIFFON: And they may
18 fall into Site Profile, but they may not, I
19 guess.

20 MR. FARVER: And we've had this
21 combative discussion before about whether it's
22 chronic or is it several acutes or how should

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1 we consider this? And so those things do come
2 up.

3 MR. STIVER: The only concern I
4 have about that is once we, you know, if we
5 were to get into those issues here it would be
6 basically, essentially replicating what would
7 be going on the --

8 CHAIRMAN GRIFFON: Well that's
9 what I'm saying. There's this --

10 (Simultaneous speaking.)

11 CHAIRMAN GRIFFON: -- little bit
12 of a gray area.

13 MR. KATZ: They don't have to be
14 resolved here, but the issue is wanting,
15 making sure that they're identified in the
16 case. Whether they get resolved, they
17 probably would get resolved in the Site
18 Profile Work Group. But we'd want to capture
19 that in the case.

20 (Simultaneous speaking.)

21 MR. STIVER: Otherwise it might
22 just slip off the radar scope altogether and

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1 never get back.

2 CHAIRMAN GRIFFON: See my fear is
3 if you, I mean, part of the reason for doing
4 individual case reviews is that it might open
5 your eyes to something that people weren't
6 thinking about when they were designing the
7 bigger profile. So if you see something that
8 says, wait a second, you know, we know there
9 were, you know, they've sort of resolved this
10 but this brings new light onto this. This
11 doesn't really fit into this model that
12 they've adopted before.

13 MR. FARVER: We try to mention
14 things that we're not sure about or don't
15 really make sense to us. And I think you'll
16 see in some of the findings we talked about
17 we're not necessarily so concerned about, that
18 they did it wrong.

19 It's why did you do it that way?
20 And if you want to do it that way we don't
21 really have a concern, but let's put it in the
22 documentation so that everybody knows to do it

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1 that way.

2 DR. MAURO: This is John again.
3 Let me second that. That's exactly what
4 happened to me about a day ago when I was
5 reviewing this Dow case. And I noticed they
6 used a particular dose conversion factor. And
7 something that, you see when we do a Site
8 Profile review we operate at a certain level
9 of granularity.

10 When you do a DR review you're
11 actually going in and matching the person's
12 numbers one by one, every number that's in
13 that, you know, the IREP input. And all of a
14 sudden you don't realize it, but you're really
15 getting down into the bowels of exactly the
16 procedure down to the finest level you could
17 imagine. And things start to emerge that
18 didn't emerge before. And you try to, well I
19 document that in the case. What I'm saying is
20 --

21 CHAIRMAN GRIFFON: Such as, yes.

22 DR. MAURO: Yes, no I mean,

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1 actually I have things brought up more of
2 observations, they follow the rules but all of
3 a sudden we realize, wait a minute. This
4 rule, it never really dawned on us that, you
5 know, until you really get down to using it,
6 it's a funny sort of thing.

7 You think when you do your Site
8 Profile review, you know, you really capture
9 everything. I hate to say this but, you know,
10 when we do our Site Profile reviews we go
11 vertical on certain issues. But other things
12 we leave alone. You have to make a choice,
13 make a choice as to where you're going to
14 delve.

15 But when you get to the DR review
16 I can't tell you how much you realize this,
17 well this has happened to me anyway, when I
18 actually try to match numbers then I really
19 get this complete rich understanding of the
20 exposure matrix that's in the Site Profile of
21 all the procedures that are referenced,
22 whatever they are and actually implement them

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1 myself to see how they were actually used in
2 this case.

3 What I'm getting at is the DR
4 review process is the most powerful tool that,
5 you know, and of course the SEC, that's
6 another thing all together. But I'm saying
7 the DR review process, it is a driver that
8 gets you right down into the bowels of
9 everything that's going on in this program.

10 And it's not until you actually do
11 a case that the complete understanding of how
12 everything is being done and where things may
13 be, you know, not entirely consistent, where
14 there are judgments being made. So I, in my
15 mind, I think the DR Subcommittee and the
16 things you're talking about right now are the
17 most powerful, important things going on other
18 than SEC issues.

19 Everything is subservient, the
20 procedure reviews, the Site Profile reviews,
21 they're all subservient to the DR Subcommittee
22 activities and looking at cases.

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1 MEMBER MUNN: Well I certainly
2 felt subservient.

3 DR. MAURO: Remember what the Site
4 Profiles are there for. They were originally
5 invented as an idea to help do better DRs.
6 And so they do, in my mind, the DR
7 Subcommittee, I'm sorry I got, you hit the
8 subject so near and dear to my heart that this
9 is where the action is.

10 CHAIRMAN GRIFFON: I've always
11 said that, John. This is where the action is.

12 DR. MAURO: Other than SECs. I
13 realize everyone understands the importance of
14 --

15 CHAIRMAN GRIFFON: As I recruit
16 new Members that's what I say. This is where
17 the action is.

18 MR. STIVER: And how has that
19 worked out so far?

20 MEMBER MUNN: You see how that's
21 worked for you don't you?

22 MEMBER CLAWSON: That's why we all

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1 have caffeine.

2 CHAIRMAN GRIFFON: Let me, here's
3 what I'm trying to get at in terms of sort of
4 maybe modify, not modifying but being a little
5 more specific in the procedure that we have.
6 And I think we just raised a few. But what
7 are some of the examples of this other
8 category that was mentioned earlier.

9 And I think worker placement, the
10 CATI findings, the professional judgments on,
11 you know, internal dose type of, or you know,
12 fitting internal dose data, that sort of
13 thing. Can you give me other examples that
14 fall under those?

15 MR. STIVER: Really CATI findings
16 are pretty important. Those really do spell
17 out and help you develop a scenario in the
18 placement of those.

19 CHAIRMAN GRIFFON: Right.

20 MR. STIVER: And probably the two
21 biggest issues in terms of determining dose.

22 CHAIRMAN GRIFFON: Yes. I guess

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1 that's --

2 MR. FARVER: -- problems of large
3 areas.

4 CHAIRMAN GRIFFON: That's some of
5 the pretty large areas anyway. I mean but
6 that is the idea is to not, you know, I'm
7 trying to put some language in the procedure
8 just that reminds us all that we're not just
9 narrowly looking at does this number match the
10 number we got and going down a checklist.

11 You know, to keep in mind that
12 we're, and I'm not saying you're not doing it.
13 I'm just saying going forward and outlining
14 the information that we're taking. I think it
15 would be good to document that, you know.

16 MR. STIVER: Maybe we should start
17 talking about the observations in the
18 evenings. Oftentimes those --

19 CHAIRMAN GRIFFON: Yes, we glean
20 over those.

21 MR. STIVER: Yes, but basically
22 there was no response required. We capture

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1 them, we never talk about them. They're in
2 the matrices. You know oftentimes those are
3 things like John Mauro was talking about.

4 I've made comments about let's say
5 how a certain radionuclide was treated. It's
6 in accordance with the TBD. But when you do a
7 TBD it could be improved. So I think that is
8 an observation. So at least it gets in there
9 at some point. It's not lost completely.

10 CHAIRMAN GRIFFON: Right. And I
11 mean the other one, since John's on the phone,
12 I mean in the blind review and that whole idea
13 of skin contamination contributing to the skin
14 dose, you know.

15 MR. STIVER: Well that's a good
16 thing because then you can really see --

17 CHAIRMAN GRIFFON: That's an issue
18 that I don't think we've ever really, we've
19 brought it up, John brought it up, you know,
20 many meetings ago. But it's sort of like, I
21 don't think it's being handled anywhere. I
22 don't know that there is a way to -- I think

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1 we had that discussion like how do you --

2 MR. HINNEFELD: Well I really want
3 to read what John wrote in that Roman numeral
4 I or II or whatever it was on there.

5 CHAIRMAN GRIFFON: And I haven't
6 looked at it yet either, right, right.

7 MR. HINNEFELD: -- going in is
8 that once you start inventing an exposure that
9 you don't know can happen or not, you stop --

10 CHAIRMAN GRIFFON: Maybe that
11 wasn't the best example, but I mean I'm just
12 thinking of these other issues that come up
13 that are not, you know, just simply quality
14 issues and --

15 MR. FARVER: Now for example, when
16 you talk about the skin contamination, we
17 would probably raise that if you read through
18 it and let's say the guy's a roofer and
19 there's something in his CATI report about
20 they replaced the roofs on the contaminated
21 building so and so and he's got skin cancer on
22 the hand or something.

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1 We would probably bring that out
2 saying that that's possible. I don't know how
3 to resolve that, you know. That's either hot
4 particle or something on the skin and what
5 size, how big, how long was it there? But I
6 mean we would probably bring that out. I know
7 we have in the past.

8 MR. KATZ: But again, you don't
9 have to necessarily resolve it with that case.
10 So it's like, we have these two categories.
11 Were the procedures followed? And then are
12 the procedures adequate in light of this case?
13 And that's sort of the second part. Does this
14 case shed light on a possible problem with the
15 procedures?

16 MR. FARVER: Yes, and then are
17 there just errors?

18 MR. STIVER: Well the errors in
19 the quality --

20 (Simultaneous speaking.)

21 MR. KATZ: They're either followed
22 or not. And if they're not, there are errors

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1 in there. That's where the procedure's
2 followed part. That's the slavish part that
3 Mark wants to be, is saying --

4 CHAIRMAN GRIFFON: I'm not saying
5 it's not important.

6 MR. KATZ: No, but it's an
7 element. But that's sort of the basic part of
8 the review. The advanced review is does this
9 case shed light on any weaknesses in the
10 procedures?

11 CHAIRMAN GRIFFON: And how do the
12 blind reviews fit into this model?

13 MEMBER RICHARDSON: Well one
14 second before we move on to that, are you
15 imagining that this new database is going to
16 somehow increase our ability to keep track of
17 these things which are called observations
18 because they're not pointing out to problems
19 of implementation. But they're kind of the
20 bigger issues in a sense, kind of
21 philosophical issues about whether the rules
22 that we're playing by are the best rules that

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1 they can be.

2 And are we supposed, I mean, I
3 agree with that, that we've collected a number
4 of them and we haven't --

5 CHAIRMAN GRIFFON: Sort of gleaned
6 over them.

7 MEMBER RICHARDSON: Yes. We've
8 had a lot of focus on quality issues recently,
9 I think. And that's maybe distracted us from
10 making the full use that we could of those.
11 So I don't know if by tracking them more
12 within a database that's useful or we're
13 supposed to give them to Wanda.

14 CHAIRMAN GRIFFON: Well I think
15 those are observations.

16 MEMBER MUNN: I would care not to
17 have any more what ifs. I've dealt with
18 enough what ifs.

19 MR. STIVER: If it's something you
20 think might impact a procedure then, you know,
21 it should be flagged and sent on to the
22 appropriate Work Group.

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1 MEMBER RICHARDSON: Are they,
2 right now are they, do they all have like an
3 address where they're to be sent?

4 CHAIRMAN GRIFFON: No, sometimes.
5 I mean I think lately though we've been saying
6 no action required because they're
7 observations.

8 MR. STIVER: Yes, an observation
9 we don't require --

10 CHAIRMAN GRIFFON: So I want to
11 look back at those.

12 MR. KATZ: I mean, I think the
13 reality just because again, it sort of helps
14 sitting in all the different venues, I think
15 the reality of what happens right now is that
16 there's no formal system. So we don't have
17 this database where they get automatically put
18 in this database and then they can be referred
19 easily to the Subcommittee on Procedure Review
20 or what have you.

21 But what we have is SC&A staff who
22 are familiar with the issue, like John on the

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1 phone here. He's familiar with the issue from
2 one venue and he brings it to the other venue.

3 So we have a lot of that that's happened in
4 this program, a ton of it I would say that's
5 happened.

6 So I'm not, I don't think we have
7 a program so far that's sort of completely
8 defective on this at all. I think a lot of it
9 has happened. But it'd be good to develop a
10 more formalized and sort of gap free system so
11 that this, we know this happens.

12 CHAIRMAN GRIFFON: But also even
13 though we know it's happening we don't
14 necessarily know the current status on some of
15 these.

16 MR. KATZ: Yes and we can't, yes.

17 CHAIRMAN GRIFFON: You can't just
18 pull it up quickly, right.

19 MR. FARVER: We could do away with
20 observations and turn them into findings. But
21 the problem would be that they don't always
22 fit under one of our categories.

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1 MEMBER MUNN: They don't really
2 rise to the level of a finding. And they
3 aren't something that we need to see as being
4 pursued and "resolved." It's just an
5 observation.

6 MR. FARVER: I'm looking at a
7 couple here to try to get an idea of what they
8 are.

9 CHAIRMAN GRIFFON: Yes, give me an
10 idea.

11 MR. FARVER: This is one where we
12 point out that one of the tables in the TBD,
13 the headers, they're the wrong time periods.
14 You know, it goes from let's see, pre-1970,
15 you know, before 1970 to post-1970.

16 CHAIRMAN GRIFFON: Neutron dose.

17 MR. FARVER: Should that be pre-
18 `70, post-`71 or, so we do point out things
19 that we come across different things in
20 documentation. I remember this one, I forget
21 the document it was in, there were two tables
22 in there with the same number.

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1 So it gets confusing when you try
2 to refer to a table when there's two tables
3 with the same numbers in them. So we'll point
4 things out like that even though we can find
5 the actual value they used because we can
6 search both tables.

7 CHAIRMAN GRIFFON: Now see those
8 aren't the overarching --

9 MR. STIVER: Yes, those are kind
10 of niggling little details.

11 MEMBER RICHARDSON: Although those
12 are all observations which do have an address
13 to which they could be sent and corrected, and
14 acted upon very easily. And we probably
15 should do that because it's, you use your
16 energy to observe it and it should, we just
17 sat on it.

18 MR. STIVER: Yes, there should be
19 some outcome.

20 MEMBER MUNN: There usually are.

21 CHAIRMAN GRIFFON: Yes, I think we
22 usually say refer to Site Profile, but how

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1 well that's linked and how, yes, the database
2 --

3 MR. STIVER: Once we have so there
4 may be some place --

5 CHAIRMAN GRIFFON: But I'm
6 thinking more of the broader ones. Early on I
7 know at least those broader issues were
8 recorded as findings. And I think part of the
9 reason that we stopped doing that was it was
10 showing up in every case and this is kind of -
11 -

12 MR. STIVER: There was a
13 replication.

14 CHAIRMAN GRIFFON: Yes, right.

15 MR. STIVER: There's so many
16 replications you're going to be showing these
17 same types of things that we can't resolve.

18 CHAIRMAN GRIFFON: Although we
19 have a fair amount.

20 MR. FARVER: That was another
21 reason for making a new observation because it
22 was already being tracked.

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1 MR. KATZ: I mean an observation
2 does sound kind of innocuous. You could call
3 them by where they fit, potential procedure
4 issue, potential TBD issue. I mean that's
5 not, I mean that's what they are and then you
6 know it's there. And that's, and you also
7 know sort of who's supposed to be addressing
8 it.

9 MR. STIVER: Yes, we're going to
10 take these more seriously then give them a
11 more --

12 MR. KATZ: It's just potential.
13 It doesn't mean it is. It has to be explored.

14 MR. FARVER: We use whatever title
15 you want.

16 MR. KATZ: Right. So when you
17 were asking about title. You were saying
18 should we be calling these findings and I'm -
19 -

20 MR. FARVER: No, I'm saying we
21 could elevate them to a level of a finding.

22 MR. KATZ: Well I'm saying, you

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1 can call them a potential procedure issue,
2 potential TBD issue.

3 MR. FARVER: We could call them an
4 observation. I mean the --

5 (Simultaneous speaking.)

6 MEMBER RICHARDSON: You're saying
7 that findings have actions that need to be
8 taken --

9 MR. FARVER: Correct.

10 MEMBER RICHARDSON: And
11 historically the way that we've handled
12 observations is just to wave them goodbye.

13 MR. FARVER: Correct. If you want
14 to call them a potential TBD issue you're
15 going to have to have some consequences and
16 some tracking of that.

17 MR. KATZ: Yes, but I think it's
18 implicit. It's potential TBD issues, so then
19 there's a group that deals with that TBD. The
20 same thing with Procedures we have a group
21 that deals with Procedures.

22 MR. FARVER: You would have to

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1 assign it a, some kind of number, some kind of
2 identifier, so, okay which is basically
3 tracking it like you would a finding. But
4 you're not calling it a finding.

5 MR. KATZ: Right and that will fit
6 very nicely with the system that Stu was
7 describing that we have and Wanda that we
8 have, the Board's review system.

9 MS. BEHLING: Would it make sense
10 to call, this is Kathy, to call these --
11 findings, or no, maybe we'll stick with
12 observations.

13 MEMBER MUNN: We were very clear
14 at the outset what a finding was. A finding
15 was a defect of some sort that affected our
16 job which is to do dose recalculations and to
17 compensate people large sums of money if they
18 had reached a certain level. That's what a
19 finding was.

20 And anything that did not reach
21 that level of specificity was not a finding.
22 If we were observing that a table had an

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1 incorrect heading on it, if we were commenting
2 that this job is a better job than was done in
3 the preceding review, those are observations.
4 And they're, some of them should have an
5 action of some sort. Others really don't
6 require an action.

7 They are certainly not a technical
8 issue that affects the compensation that is
9 the major concern and the major focus of the
10 entire Board. I think it would be a mistake
11 for us to begin to elevate them to anything
12 other than an item which probably should be
13 corrected and needs to be tracked until it's
14 fixed because it's not affecting the
15 compensation issues which are our primary
16 concern.

17 DR. MAURO: Wanda, this is John.
18 I'd like to just, I agree with what you just
19 said but there's -- it turns out that when we
20 do our scoring in that Table 2, in our DR
21 reviews, whenever we do have a finding and
22 let's say and usually it has to do with a

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1 quality issue. I mean, that's why it makes it
2 into the table.

3 And we usually give it a low,
4 medium or high. And there is a certain degree
5 of judgment made. And usually something
6 becomes high if, for one of two reasons. One,
7 it could actually profoundly affect the dose
8 outcome and perhaps the compensation decision.
9 That's always gets a high.

10 But also it gets a high if we feel
11 that this is something that is fundamental and
12 that could impact many cases. So it may turn
13 out that we have, you know, there's ambiguity
14 in a guideline where judgment has been made or
15 judgment is being made by the DR person.

16 And he's been given that
17 flexibility because no Site Profile is that
18 prescriptive, it will never be that
19 prescriptive. There's always going to be a
20 certain degree of judgment. There's no
21 escaping that.

22 But the judgment, in our opinion,

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1 is so fundamental that it could affect many
2 cases. And maybe it doesn't have a big affect
3 on the compensation decision for this case.
4 But it could have an affect on those kinds of
5 judgments; we give them a high score. So I
6 mean, at least I do.

7 So I would say that, I don't know
8 if anyone agrees with that. But the judgment
9 that we make, SC&A makes on why we think
10 something is high, and of course we have a
11 chance to talk to you folks about it during
12 the one on ones. So we do have a pre-
13 screening process where we go low, medium or
14 high based on the one-on-one conversations we
15 have with you.

16 MEMBER MUNN: And I don't think
17 you're getting any push back on that position,
18 John. I don't think so at all. I'm just
19 saying that, in my personal opinion, the
20 established criterion that we had for
21 identifying the difference between a finding
22 and an observation was a valid one. That was

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1 my only point. I don't see raising
2 observations to the level of findings.

3 CHAIRMAN GRIFFON: Well if the two
4 examples I heard, you know, from Doug, I will
5 agree with that. I mean, because those, you
6 know, changes on and I think in those
7 instances, I may be wrong, but I think the
8 tables are wrong in the TBD, but in fact the
9 workbook had, was doing the calculation
10 correctly. You know, it didn't really affect
11 the reconstruction at all. I agree, that's an
12 observation.

13 Nonetheless, it should be captured
14 by NIOSH and fixed, you know, for the next
15 revision of the profile. On the other hand,
16 if you have observations that are sort of
17 these broader issues, as John was saying
18 earlier, and I don't have an example in my
19 mind. But if there was something that was
20 more of a scientific question but they sort of
21 knew it was being handled on the, I guess --

22 MR. STIVER: What if you came

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1 across something that was, had broad
2 implications but wasn't necessarily rigidly
3 defined as a finding, per se because it was
4 kind of outside the scope of what the TBD had
5 prescribed?

6 So something that would be in the
7 Site Profile environment would be considered a
8 finding, it just so happened that the dose
9 reconstructor was the first one to notice it
10 during the review. Right now it would be --

11 (Simultaneous speaking.)

12 MR. STIVER: There's a few
13 different categories of observations that say
14 what they are.

15 DR. MAURO: I've got the biggest
16 one for you. The biggest one is the judgment
17 on whether we use 50th percentile full
18 distribution, when to use the 95th percentile.
19 I run into that and that's a judgment call.

20 CHAIRMAN GRIFFON: Is that listed
21 as an observation though in your previous --

22 DR. MAURO: That, the person, the

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1 way it goes right now, that would be a finding
2 that is in Section 1.3 on the Site Profile
3 because what happens is the Site Profile
4 leaves, and the procedures. And not only in
5 the Site Profile, but it's also in the
6 procedure, I forget which, 60, I forget which
7 OTIB it is.

8 But what happens there is the,
9 rightly so, stay with me for a minute, rightly
10 so that discretion is left up to the dose
11 reconstructor, that is should I give this
12 person the full distribution or should I give
13 them the 95th percentile? And that I keep
14 running into that and the place that I very
15 often find myself on one side, and let's say
16 NIOSH on the other side, is a judgment call.

17 And that judgment has to be made
18 by the DR. And therein lies what I would
19 consider to be something that right now is,
20 goes toward, you know, you would argue, well
21 is that something you put a score into people
22 or is that an observation? In my opinion,

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1 that's so important we can't just leave that,
2 we're not going to worry about that right now.

3 I mean that goes to the heart of
4 the dose reconstruction and how those
5 judgments are being made. So to call it an
6 observation when it has such a profound
7 implication, maybe not for this case that
8 you're doing right now because it wouldn't
9 change anything. Very often it doesn't change
10 anything because the guy may be down at a 25
11 percent PoC.

12 But the very idea that there is
13 this ambiguity and the judgment that's being
14 made is do we go with the 50 percentile or do
15 we go with the 95 percentile. That just keeps
16 coming back time and again. And the question
17 is, I think when that comes up as an issue on
18 a real case it's imperative that it be fed
19 back to the Site Profile folks or to Wanda
20 with the Procedures Subcommittee that we got
21 to work this out.

22 CHAIRMAN GRIFFON: John --

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1 DR. MAURO: Because it's essential
2 to every one of the DRs.

3 CHAIRMAN GRIFFON: I think we're
4 in agreement, John. The one thing I'll note
5 also in the first five sets that we did in
6 that final report, at the end of it we had,
7 John spoke to the case ranking. But I also
8 added in the column for, I forget what we
9 called it, but the broader ranking or the, and
10 I guess this was the question that John just
11 raised that this here's a judgment that likely
12 has no impact on this case.

13 But it was a pretty big issue for
14 the whole site. How are they going to deal
15 with the 50th versus 95th. So we might have a
16 low site -- low case ranking, you know, higher
17 overall ranking because it had, you know, it
18 didn't impact this case but it had potential
19 to impact others. And that was the idea. So
20 I think those, yes, I agree with you, John.
21 That should be a finding, that shouldn't be an
22 observation.

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1 MR. FARVER: Right and the other
2 one that should be --

3 CHAIRMAN GRIFFON: Maybe the
4 disposition is to go to the Site Profile, it's
5 being --

6 MR. STIVER: Certainly it should
7 be a finding. It needs to be a disposition
8 and tracked in the appropriate --

9 CHAIRMAN GRIFFON: Right.

10 MR. FARVER: Also if you're
11 looking at the percentile and you disagree
12 with what NIOSH did because of something you
13 read in the CATI or job description and you
14 feel it was one way or the other different.
15 You know, it was a secretary -- maybe 95
16 percent and maybe failed should be 50 percent.
17 So that would be a finding.

18 A case where it would not be a
19 finding was if during our review of a Site
20 Profile, you know, exposure matrix we brought
21 up the point that, you know, we didn't like
22 their percentiles or something, you know, 50

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1 to 95 and we thought it was ambiguous or
2 whatever, you know the grouping. Since we
3 have been identified in another report that
4 would probably either go in under 1.3 or as an
5 observation, if it had already been
6 identified. So I could see where it could go
7 in either --

8 CHAIRMAN GRIFFON: I would think
9 that would be in 1.3, wouldn't it? I would
10 hope.

11 MR. FARVER: Yes, but before 1.3 I
12 believe we were putting it in observations.
13 Just an honest judgment.

14 CHAIRMAN GRIFFON: And I think
15 we're all saying similar things here. I mean
16 the idea is just not to, you know, narrow the
17 review so much that you're just looking at
18 sort of a checklist, you're keeping an, and
19 I'm not saying that you haven't been doing
20 that. I'm just saying again that we should
21 reflect that in what we write as a protocol.

22 MR. STIVER: I think we definitely

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1 need to be cognizant of those things that
2 could, you know, kind of be more site wide and
3 identify them.

4 DR. MAURO: How would you think
5 about, what would we do to Table 2, then? You
6 see right now Table 2, you know, is not
7 designed to capture those types of issues if
8 they really go back to concern about clarity
9 in a dose reconstruction site 00 I'm sorry, a
10 Site Profile or a procedure that may or may
11 not be active, that is, you know.

12 There may not be an active Work
13 Group, but we do have an issue. It may be an
14 issue that we've already identified and is in
15 a finding in one of our Site Profile reviews
16 or it might be a new issue. I just came
17 across one that just surfaced while I was
18 doing this. My goodness there's something
19 wrong here.

20 And it wasn't captured in the Site
21 Profile review so it's sort of like another
22 category that do you want to try to capture

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1 that in the Table 2 score card, somehow? Is
2 that the question that's on the table?

3 MR. STIVER: Yes. I think that
4 ultimately that's where it would have to be
5 done.

6 MR. FARVER: What I would suggest
7 would be just adding a single category. You
8 know, we go up to letter H and that's our
9 totals. I would bump that down to I and make
10 letter H whatever you want to call it,
11 potential TBD issues. Group them all into one
12 category.

13 MR. STIVER: Yes or you know,
14 either way. It can be easily incorporated
15 into the structure that we have.

16 CHAIRMAN GRIFFON: And the TBD and
17 that TBD procedure category would also cover
18 all these things like, I'm just thinking out
19 loud, but it would cover all the workbooks and
20 all the, because they're driven by the
21 procedures, right, by the --

22 MR. FARVER: It would cover

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1 overarching issues, how about that, the two
2 you mentioned. It would not cover --

3 CHAIRMAN GRIFFON: Well I mean, I
4 guess what I'm getting at is the workbooks
5 are, should be consistent with the TBD or
6 procedure that they fall under, right. So --

7 DR. MAURO: I would agree that the
8 workbooks, for all intents and purposes, are
9 an extension of the Site Profile and the
10 procedures. And if we have, if we see that
11 they didn't, the workbook didn't follow that,
12 you know, that's basically a quality assurance
13 issue. If it does follow it, but we don't
14 like it, it's basically saying well we don't
15 like the Site Profile.

16 CHAIRMAN GRIFFON: That's what I'm
17 getting at, right, okay.

18 MR. STIVER: That procedure if
19 it's not site specific.

20 MR. FARVER: So if it follows the
21 Site Profile, but you don't like it, it would
22 go into that --

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1 MR. STIVER: Potential.

2 MR. KATZ: Potential TBD issue,
3 right.

4 MR. FARVER: Okay. I can live
5 with that. And then if it's something like
6 there's an error in the title of a table, that
7 --

8 MR. STIVER: That's still an
9 observation.

10 CHAIRMAN GRIFFON: That's an
11 observation, yes.

12 MR. KATZ: It doesn't have the
13 potential to affect dose --

14 CHAIRMAN GRIFFON: I think Wanda
15 clarified that. I think that, I agree with
16 Wanda, that stays, that's an observation all
17 the way, yes. Okay. Now dare I ask about
18 blind reviews? Where do we think they fit
19 into the picture?

20 MR. STIVER: I think we saw this
21 morning they can be pretty helpful in
22 identifying the impacting decisions with the

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1 question of judgment, something that we don't
2 typically see as much in these basic reviews.
3 We sure see it, you know, within SC&A and also
4 doing the comparison with NIOSH. Now does
5 that -- that would have to feed into some
6 other, you know, to become a metric.

7 CHAIRMAN GRIFFON: I think they
8 have a lot of utility in identifying the
9 critical points --

10 MR. STIVER: Yes, critical points,
11 yes.

12 CHAIRMAN GRIFFON: -- in the, yes.
13 And when you're reviewing that you might
14 notice it. But when you do it blind --

15 MR. STIVER: When you do it blind
16 you put a little bit more thought into it
17 typically.

18 CHAIRMAN GRIFFON: Yes, right.
19 And then also the, you know, I guess the, you
20 know, the importance of different decisions
21 too I think can be highlighted in that
22 process. Anyway I --

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1 MR. FARVER: It could very
2 difficult to do particularly getting the, or
3 using the updated tools that are available.
4 You know, we're a little bit limited on what
5 we use. I think they've made changes. Are
6 there any changes to the platform that the
7 tools are on or can they all still be PC
8 based?

9 MR. SIEBERT: No, there's been
10 some platform changes.

11 MR. FARVER: Yes, so there might
12 be some difficulties getting us access or the
13 ability to use the current tools.

14 MR. STIVER: Yes, we'd have to
15 have full access to the tool sets first.

16 MR. FARVER: That's the only
17 problem I see.

18 MR. SIEBERT: That's a key
19 question.

20 MR. FARVER: Because I know we're
21 having some issues with the CAD W because that
22 was all moved to a different platform that's

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1 not easily used on our PCs.

2 MR. STIVER: You guys are all on
3 Windows 7 now, right? We have some who are
4 and some who aren't at this point. We need
5 something for us to work on, on our end.

6 MR. HINNEFELD: Well let's figure
7 out what has to happen --

8 MR. FARVER: Yes, I just want to
9 make sure we're comparing apples to apples.

10 CHAIRMAN GRIFFON: Yes, yes. And
11 we don't want to throw a burr into right away.

12 MR. SIEBERT: And we are
13 implementing that over time with the tools.
14 And some tools are in the old process and some
15 are coming to the new process as we --

16 MEMBER MUNN: That's another one
17 of our numerous TLAs that gives me real grief.
18 It's very hard for an engineer to hear CAD and
19 not think computer assisted design. I have to
20 stop and think about that every time. All
21 right.

22 MR. KATZ: So any other thoughts

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1 about the value of blind reviews and about how
2 much should be done? I mean we've done two --

3 CHAIRMAN GRIFFON: And also the
4 approach. I mean I think we have two
5 different ways to use and I saw some value in
6 actually both methods.

7 MR. STIVER: I like the idea of
8 having both -- to see the impact of where we
9 find a technique using these very complex
10 workbooks versus the standard health physics
11 calculation.

12 CHAIRMAN GRIFFON: Yes, because I
13 think the approach, the standard health
14 physics calculation kind of approach has the
15 potential to identify things that, because if
16 you start putting the blinders on and these
17 are the tools that they're using.

18 MR. STIVER: And you start
19 thinking of them outside the boundary.

20 CHAIRMAN GRIFFON: Yes, you can
21 think outside the box.

22 MEMBER KOTELCHUCK: Also, I mean

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1 it is very helpful to --

2 DR. MAURO: Have you folks had a
3 chance to talk about Kathy's report on the
4 blinds?

5 MR. KATZ: Yes.

6 DR. MAURO: Okay. You did do
7 that. Because when all is said and done that
8 conversation should have revealed what value,
9 you know, what did it do for us.

10 CHAIRMAN GRIFFON: It did.

11 DR. MAURO: I read the report, I
12 said, okay, you start to see how it serves the
13 process. It's another way to get at quality
14 and consistency and, you know, where the
15 judgments are being made, where the errors
16 might be made.

17 So it's a whole other, I mean in a
18 way you could say that the blind review is
19 your final score of whether or not this is
20 working. And quite frankly, I know that
21 NIOSH, you folks are doing blinds right now.
22 Is that correct?

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1 MR. HINNEFELD: Yes.

2 DR. MAURO: And so in a way you're
3 doing the exact same thing that we do with
4 those too. And it's going to be, you know,
5 there's no doubt that in the end the blind
6 review process, whether done by the Board and
7 its contractor or done by NIOSH, is probably
8 the purest way in which you could judge the
9 quality and consistency of the DRs.

10 I would strongly recommend that
11 blind process continue, whether it continues
12 with the Board and its contractor and/or with
13 NIOSH and the role the Board might play in
14 reviewing those, to me that is, everything
15 else, I mean that is your final test, so to
16 speak.

17 It tells you everything. If
18 everything is working well or you, every one
19 of these blinds should come out pretty close
20 to each other and if they don't you'll know
21 why. You can figure out why, as Kathy pointed
22 out in her report.

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1 MR. KATZ: Let me ask a question
2 that came up earlier, but we didn't pursue it
3 yet because we were going to talk about it
4 now. But DCAS is doing these blind reviews
5 using the A formula basically, along those
6 lines of what you've done at SC&A in your A
7 and B formulas.

8 So does it makes sense for the
9 Board to be doing blind reviews in the A
10 formula or should it just focus on doing them
11 using the B formula? That's the John Mauro
12 formula.

13 MR. STIVER: I would say there's
14 value in retaining the original component in
15 that, because we're also comparing it to what
16 NIOSH did.

17 And I think one of the problems
18 NIOSH has had so far and it may not be this
19 way for much longer, is that just being on the
20 learning curve. Whereas, some of the SC&A
21 people have been doing this for years and
22 years and years. And it might give you a

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1 better idea compared to the blind reviews like
2 the one Kathy did or John has done.

3 DR. MAURO: One of the things I
4 learned, because I was the one who was
5 involved in what I call the basic approach, is
6 you know, I'm not, the workbooks as everyone
7 knows, they make my head spin. And I say to
8 myself, I can find myself lost in a workbook
9 trying to figure out, you know, okay what did
10 they do?

11 I don't want to look at that. I
12 want to look at that DOE data. I want to look
13 at the bioassay data. I want to look at the
14 film badge data. And I want to determine for
15 myself whether or not I, you know, what the
16 doses are. And what I learned, I learned
17 something very important in the process, is
18 that NIOSH's workbooks and procedures operate
19 at a much higher level of resolution than I'm
20 working at.

21 In other words they have
22 incorporated steps in the process where there

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1 are adjustments made and considerations given
2 to certain factors that really bring you into
3 the state of the art in dose reconstruction,
4 taking into consideration some real nuanced
5 things that -- so I would say in a funny sort
6 of way, I think the body of literature that
7 has been compiled and documented by NIOSH is
8 astounding.

9 The procedures, I mean I've
10 learned so much health physics in reading
11 those procedures. And so when there is a
12 difference, very often it's NIOSH did a better
13 job than I could do using my pencil and paper
14 and my calculator and use what I call the
15 common sense approach. But it reveals that.

16 So I mean the value was, my
17 goodness look. The reason we're different is
18 NIOSH did a much better job on adjusting for
19 neutron energy distribution or whatever it is.
20 But also what it does is, the common sense
21 approach also, you can become blinded by the
22 workbook.

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1 In other words, I could see a
2 person going into a workbook and going through
3 it step by step almost by rote, never really
4 thinking about what they're doing, just
5 automatically running the workbook. So I
6 think you've got to do both.

7 I have to say I think you've got
8 to do what I call the common sense, basic
9 health physics approach. But also you want to
10 work through and see the workbook approach.

11 It's just so revealing, as Kathy's report
12 pointed out.

13 CHAIRMAN GRIFFON: I think from,
14 you know, with our, my argument would be for
15 keeping some capacity on the Board level of
16 doing those blind reviews. Yes. I think both
17 understanding now that I'm happy that NIOSH is
18 implementing this.

19 But also from a public standpoint
20 I think that, you know, that's what the Board
21 is here for is to be an independent sort of
22 oversight review. And I think having a layer

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1 of those blind reviews is good.

2 I'm struggling with the questions
3 on number, you know, how many should we do.
4 Because that was one of the criticisms we keep
5 hearing is you said you were going to do two
6 and that was eight years ago and now you're
7 finally finishing two.

8 You know, so how many should we be
9 doing? Especially given that NIOSH has now
10 got a path forward and we have access to
11 looking sort of at their aggregate findings
12 from that process.

13 And the second part is selection.
14 You know, I think it's difficult because we,
15 if we want it to be truly blind, it has to be
16 an in process case. And then we're often,
17 we're likely to get anything. You know, we're
18 not going to get best estimate cases.

19 MR. FARVER: Right and I think
20 that's what we saw this morning with the big
21 difference in the internal dose was --

22 CHAIRMAN GRIFFON: Because they

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1 were overestimating.

2 MR. FARVER: -- overestimating it.

3 MR. STIVER: Yes, I think you get
4 the biggest bang for our buck we have to look
5 at those that are, you know, close to a
6 compensation level.

7 CHAIRMAN GRIFFON: But we won't
8 know if it's truly, so that's my question of
9 the selection. How do you, you know? And if
10 we're going at, Stu, what did you say? The
11 best estimate cases, it's less than five
12 percent overall isn't it? Or it's a low.

13 MR. HINNEFELD: It's a pretty low
14 percentage --

15 CHAIRMAN GRIFFON: So our chances
16 of getting that randomly, you know, are --

17 MR. STIVER: About two and half
18 percent, somewhere between 45 and 50, I
19 believe.

20 CHAIRMAN GRIFFON: So two and a
21 half percent.

22 MR. STIVER: Pretty small.

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1 CHAIRMAN GRIFFON: Yes.

2 MEMBER MUNN: But statistically we
3 are not going to want to do as large a number
4 as would be necessary for us to get a good
5 statistical evaluation of anything. That's
6 just too large a number, too time
7 constricting, just simply can't do that.

8 So it would, it seems, be wise for
9 us to choose a relatively low number that we
10 would attempt to maintain as much non-specific
11 criteria in choosing as possible but still
12 have the best estimates in there if we
13 possibly can and rely to a large extent on an
14 overview of the NIOSH internal review process
15 to give us a feel for what their findings are
16 to see whether there's any major disconnect
17 with the findings that we would have in our
18 relatively small number of cases. I wouldn't
19 think that we'd want to do more than, we've
20 done two, ten?

21 MR. STIVER: We've done two.

22 Would it be possible for us to do, you know,

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1 take a case that, you know, it's already been
2 performed and adjudicated through NIOSH, so we
3 can finalize it, you know, unbeknownst to the
4 SC&A reviewers, that are within that range
5 that look to be good candidates. And we could
6 pick those that have, work that in house and
7 then compare that back to what NIOSH did in
8 the process.

9 MR. SIEBERT: I just have one
10 clarification for my mind. Does that mean
11 that for the comparison A which is checking
12 the NIOSH version versus you guys following
13 the same procedures, you guys would need to
14 know the date that claim was actually done so
15 you use the same revisions of all documents
16 that were in place at that time? Because
17 otherwise you don't have --

18 MR. STIVER: Yes, otherwise you
19 would be comparing apples to oranges.

20 Otherwise we're stuck with trying to pick two
21 and a half percent. If you get something at
22 ten or 15 percent, you know, you're starting

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1 to see the impact.

2 MEMBER KOTELCHUCK: If we're going
3 to have a small number, my feeling is the
4 types of cancers are critical. We've looked
5 at one skin cancer, we're looking no more.
6 But pick some them that we, that tend to come
7 in more frequently types of cancers.

8 CHAIRMAN GRIFFON: Also ones that
9 tend not to be overestimated like prostate
10 often would be overestimated because, we can
11 other selection criteria. That's what I was
12 thinking about. Are there other things we can
13 select by other than PoC? I think we can
14 maybe think --

15 (Simultaneous speaking.)

16 CHAIRMAN GRIFFON: And then, you
17 know, overall I think, Ted and I were talking
18 about this earlier, but generally like 60 a
19 year has been a rough number of how many --

20 MR. STIVER: That's about average.

21 CHAIRMAN GRIFFON: -- cases are
22 reviewed. And do we think, I mean I'm just

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1 throwing out, would ten percent, you know,
2 would six be too many blind reviews or should
3 it be?

4 MR. STIVER: Why don't we ask this
5 to Kathy and John and Doug, what kind of
6 effort went into producing the blind reviews
7 in terms of hours as compared to a, you know,
8 a basic?

9 (Simultaneous speaking.)

10 MR. KATZ: Kathy, John, did you
11 hear the question?

12 DR. MAURO: Yes, I did. The way,
13 when I was looking at these, quite frankly, I
14 do it the same way. I check, when I do my DR
15 reviews I do the same thing except that in
16 this case in the blind I don't know what
17 doses, you know, that they, NIOSH got. I
18 don't know what PoC was attained.

19 But I have all the data. So it's
20 really about the same amount of time. And I
21 could tell you right now cradle to grave to do
22 a, what I would say my judgment is cradle to

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1 grave for a realistic whether it's a blind
2 review or a DR review, it takes 100 work
3 hours.

4 So I mean if you want to, you
5 know, to go through the process. Now
6 certainly some of them we do better. But
7 they've been on that order. And John you have
8 all the stats, but I think --

9 MR. STIVER: I can pull that
10 information. I don't have it on hand right
11 now, but it's --

12 DR. MAURO: You don't have it. I
13 know when I was keeping track of it we were
14 tracking at around that. Now of course it's
15 quite variable depending on the complexity of
16 the cases. But the cases have been getting
17 quite complex. So what I'm saying is, I think
18 the amount of time it takes to do a blind is
19 probably not that much different than it takes
20 to do the actual DR review.

21 MR. KATZ: I find that a little
22 surprising considering the DCAS experience --

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1 CHAIRMAN GRIFFON: Also isn't
2 John, everybody's also, I'm thinking, John, I
3 mean most of your case experience is the AWE
4 cases though.

5 DR. MAURO: That's absolutely
6 true.

7 CHAIRMAN GRIFFON: So I think the
8 other cases are different.

9 MR. STIVER: Yes, a DOD site like
10 Savannah River or, you know, those really
11 complex ones that Ron Buchanan does, those --

12 CHAIRMAN GRIFFON: Yes, those
13 require time too, right.

14 MR. STIVER: A lot of effort goes
15 into them. But I think that 100 hour figure
16 at least for the Part A sounds probably like
17 ball park -- what I actually spent on the
18 first two.

19 MR. KATZ: You missed the
20 discussion, John, earlier where DCAS was
21 explaining their blind review experience. And
22 there's a lot of learning curve, et cetera

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1 that goes into doing them yourselves versus
2 reviewing. They're two very different in
3 their experience, very different enterprises.
4 And I'd be surprised if it's the same
5 resources too.

6 DR. MAURO: Are you, I just, on my
7 own, I'm kind of curious, what is the level of
8 effort it usually takes to do one of your
9 listed cases? Are you free to disclose that
10 or is that something you --

11 MR. HINNEFELD: Boy ORAU sent us
12 something.

13 (Simultaneous speaking.)

14 MR. KATZ: In hours?

15 DR. MAURO: In work hours, not
16 dollars. No, no. Just --

17 MR. SIEBERT: I believe between
18 dose reconstruction and peer-review the
19 average is somewhere between 12 to 16 hours.

20 MR. KATZ: But that's --

21 DR. MAURO: That's terrific.

22 Okay. I could never do one in that time.

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1 MR. CALHOUN: I've never done one,
2 a blind DR. But I would, I can't imagine it
3 would take us any more than 30 hours. Beth's
4 done one. I mean, what do you think?

5 MS. ROLFES: Maybe 30 hours.

6 MR. STIVER: About 30, so about a
7 week's worth of effort.

8 MR. KATZ: Okay. So double what
9 ORAU takes though is what you're saying?
10 Which makes sense, I mean you don't do this
11 every day and they're doing it every day.

12 MS. ROLFES: When I did mine I
13 didn't use the tool. So I did it as a TBD.

14 MR. KATZ: Right. That's sort of
15 similar to what John's saying, so John, you
16 might double what you would consider your
17 resources for doing a review, double that for
18 doing it.

19 DR. MAURO: A blind?

20 MR. KATZ: A blind.

21 DR. MAURO: Okay.

22 MR. FARVER: And a lot of it

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1 depends on the case and how many data points
2 you're looking at and how many thousand DOE
3 records are included.

4 MR. STIVER: They can range over a
5 factor of ten. I mean some of these you can
6 bust out in one afternoon. Others can take
7 two weeks of hard effort.

8 MEMBER KOTELCHUCK: If we're
9 talking about one, two, three, we can't set a
10 percentage. I think we can't set a number
11 even. I think if we're talking about, two are
12 in process, one is done, one is in process.
13 My sense is if we have five, right if we have
14 five different ones of different cancers and
15 then let's see if there are systematic things
16 that we're learning.

17 And then we can reassess and say
18 fine, we've learned what we can learn, stop.
19 Or say no, we see a pattern in these kinds,
20 let's go ahead with x more.

21 MR. STIVER: Cyclic incremental
22 type of approach.

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1 MEMBER KOTELCHUCK: Yes, that's
2 right.

3 CHAIRMAN GRIFFON: I agree and
4 that's why I wasn't trying to make us stick to
5 ten percent. Six sounds like a reasonable,
6 you know, five or six. And then we reassess.
7 I don't think we can really assess with one or
8 two. Let's get a few more at least.

9 MEMBER KOTELCHUCK: Right there
10 are no patterns going to come out.

11 MR. FARVER: But on our part the
12 biggest hold up is just going to be getting
13 that interface together and the tools to the
14 workbooks.

15 CHAIRMAN GRIFFON: The only other
16 thing I would ask is that because we can
17 probably wrap up this discussion, the only
18 other thing I would ask is that if you have
19 ideas on how to, I think the type of cancers
20 obviously we'll need selection criteria. Are
21 there other criteria that would help us?

22 MR. STIVER: Type of cancer,

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1 complexity of the case, various things like
2 that.

3 CHAIRMAN GRIFFON: Well you know,
4 like I said, several of these things you're
5 not going to have if the case is in process,
6 right. So if it's a true blind review, what
7 are you going to know?

8 Well one thing is site. We could
9 make sure we don't get the same site all the
10 time or --

11 MR. HINNEFELD: The case of the,
12 like the contractor, the SC&A review will be
13 done.

14 MR. KATZ: Will be adjudicated.

15 MR. STIVER: Yes, it will already
16 be adjudicated so we'll be able to look at --

17 MR. HINNEFELD: So we'll know and
18 then if you, you know, we can ask that.

19 (Simultaneous speaking.)

20 MR. HINNEFELD: You know, we have
21 access. We can either trust them not to look
22 at it or we could mask it. You know, I guess

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1 DCAS could say okay, well SC&A now can't see
2 these two --

3 MR. KATZ: You can block them.

4 MR. HINNEFELD: Yes, we can block
5 them too. It depends on what you guys want.

6 CHAIRMAN GRIFFON: But also, I'm
7 just thinking about, we I mean, as a selection
8 criteria we can't say we want something
9 between 45 and 50 PoC because then SC&A sort
10 of says okay, well I've got 42, you know.
11 We'd better look at this closely.

12 MR. KATZ: I think you've got to
13 do the selection out of SC&A's awareness.

14 (Simultaneous speaking.)

15 CHAIRMAN GRIFFON: Some of it may
16 be the mechanics of how we do this. We might
17 have to have a closed door session of the
18 Board to select the blind cases. Anyway we
19 can figure that outside of this.

20 MR. STIVER: Just do that and send
21 us the information for that one.

22 CHAIRMAN GRIFFON: Alright. So I

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1 think that is helpful just in terms of what
2 we're doing on the regular reviews and the
3 idea of the blind reviews.

4 MR. FARVER: What kind of
5 timeframe, for now, were you looking at or
6 thinking about for these blinds? Like next
7 year, total year or?

8 CHAIRMAN GRIFFON: Yes, I mean I
9 would think for the next year we would want
10 five or six, you know.

11 MEMBER KOTELCHUCK: So two are
12 almost, two are --

13 MR. FARVER: Two are done.

14 MEMBER KOTELCHUCK: One and a half
15 done, so three next year?

16 MR. FARVER: Okay.

17 CHAIRMAN GRIFFON: Yes, so we
18 should probably, I mean I think at the next
19 Board meeting I'm going to present some of
20 what we've discussed here. If the Board
21 agrees, I think the next thing we should do is
22 task at least a few more, you know, to get the

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1 ball rolling.

2 MR. FARVER: You want to do two in
3 the first six months and then two the second
4 six months, for four?

5 CHAIRMAN GRIFFON: Yes.

6 MR. FARVER: Or if it's small like
7 that I think we could handle.

8 CHAIRMAN GRIFFON: Or three and
9 three, whatever.

10 MEMBER KOTELCHUCK: Two and two
11 during the regular year, one in the summer and
12 then have the Board discuss is that too much?

13 MR. FARVER: Well I'm not sure --

14 MEMBER KOTELCHUCK: I'm looking,
15 when the Board meets in the fall to be able to
16 talk about them. That's a good, sort of
17 academic calendar.

18 MR. FARVER: I think a lot of this
19 we're not going to really know for sure until
20 we start digging into them.

21 MEMBER KOTELCHUCK: Yes, okay.

22 (Simultaneous speaking.)

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1 CHAIRMAN GRIFFON: That gives us
2 enough to go on. That's, I think that's good.
3 And can we, I'm not sure how much we're going
4 to get into the matrices. But let me ask, I
5 want to take five only because I need a
6 comfort break.

7 But can we, what is the preference
8 and since Scott and Doug are probably closest
9 to this, should we try to look at matrix eight
10 and nine? Are we close to wrapping those up?
11 I can't remember. Or should we do ten through
12 13?

13 MR. SIEBERT: I think we'd
14 probably get through Rocky and LANL.

15 (Simultaneous speaking.)

16 MR. SIEBERT: They're pretty close
17 because --

18 MR. FARVER: We'd probably get
19 through at least Rocky.

20 MR. SIEBERT: Quite a bit of them
21 because we have a --

22 CHAIRMAN GRIFFON: Let's take five

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1 and then we'll focus on Rocky after the break.
2 And we've got to be cognizant of some people
3 have to, Dave, you have to leave a little
4 early that's --

5 MEMBER KOTELCHUCK: Yes, I could
6 leave before the end, but probably maybe a
7 quarter of five.

8 CHAIRMAN GRIFFON: We'll be done
9 by, I think we'll wrap up by five anyway.

10 (Whereupon, the foregoing matter
11 went off the record at 4:14 p.m. and went back
12 on the record at 4:24 p.m.)

13 MR. KATZ: We're back.
14 Subcommittee on Dose Reconstruction and
15 Review.

16 CHAIRMAN GRIFFON: Okay. We're
17 going to just do, we're going to jump to the
18 last item on the agenda which is the case
19 reviews for the Rocky Flats cases in the 10th
20 through 13th matrices. And I will, there is a
21 matrix that was sent out to, does everybody
22 have one of those?

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1 Alright. You're one ahead of me.
2 I just got it, so I'll leave it up to either,
3 I guess Scott or Doug to start off on them.

4 MR. FARVER: Okay. It's the basic
5 matrix format. We have the finding, the NIOSH
6 response and SC&A response. And then an SC&A
7 suggested action. Our finding 252.1 assigned
8 missed dose, missed photon dose not consistent
9 with the protocol or the DR Report.

10 We have a lengthy NIOSH
11 description, I mean it's very thorough. And
12 it comes down to really two basic issues. The
13 DR Report says that they used best estimate
14 methods. And really we've used overestimates
15 for some portions, okay. So that's one part
16 of this.

17 And then the second part is, the
18 DR Report states that 238 missed doses were
19 used, so basically 238 cycles were used to
20 calculate the missed dose. When you look at
21 the calculations only 196 were used. Now so
22 if it's mainly an issue of what was said in

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1 the DR Report was not what was actually done.
2 That's what it all boils down to.

3 And we've seen this before. You
4 got the gist of it, Scott?

5 MR. SIEBERT: Yes, the, it's
6 really, the first one is the wording issue of
7 overestimate versus best estimate methods,
8 which when I look back at the actual report we
9 do state the processes claim the dose was
10 assigned estimating using efficiency measures,
11 which is overestimates.

12 And then in the next paragraph it
13 does say this dose reconstruction was
14 performed using best estimate analysis for
15 some components. So I believe we were
16 relatively clear on the fact that portions
17 were overestimated.

18 MR. FARVER: Some were, some
19 weren't.

20 MR. SIEBERT: The overall claim
21 was overestimated, but portions were best
22 estimate, so.

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1 MR. FARVER: Okay. And in some
2 reports we'll see where they'll say that it
3 was efficiency methods for, you know, certain
4 parts and they'll list the parts. And I mean
5 for photon, for other external doses.

6 And then for internal dose they'll
7 say we used efficiency methods or something.
8 It just, it was clear in this one. And then
9 the other issue is just the number of zeros.

10 MR. SIEBERT: And the number of
11 zeros I would, that's just, that's a typo
12 error between the numbers between the two
13 because, yes, you're right. Your numbers and
14 ours as to the actual count of what was used
15 were relatively consistent, so.

16 MR. FARVER: Yes, it's not a
17 complaint about the method or anything. It's
18 just what was written and not what was done.

19 MR. SIEBERT: Right.

20 MR. FARVER: Okay. So we suggest
21 just closing that one.

22 CHAIRMAN GRIFFON: Can I ask, I

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1 mean this, I should point out for the record
2 this is our first attempt at this process
3 where you guys had an interim discussion.

4 Were there any Board Members on the --

5 MR. FARVER: This is the second
6 attempt. And we didn't have any discussion.

7 CHAIRMAN GRIFFON: It's the second
8 attempt.

9 MR. FARVER: I mean we didn't, I
10 mean the second --

11 MR. SIEBERT: Nothing you said was
12 right.

13 (Simultaneous speaking.)

14 MR. SIEBERT: There was a call in
15 between, we had discussed that before. We
16 have never had that process.

17 CHAIRMAN GRIFFON: Okay.

18 MR. SIEBERT: This has all been we
19 submit our responses, they submit responses
20 back. So it's all been on paper.

21 CHAIRMAN GRIFFON: Okay.

22 MR. FARVER: And really what it

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1 would come down to us wanting to need a call
2 is if something isn't clear. But usually the
3 explanation made it clear or --

4 CHAIRMAN GRIFFON: Well the only
5 reason I asked is because when we initially
6 had the idea of having a call, we were going
7 to make it known to the Subcommittee in case
8 someone wanted to dial in. No one had that
9 opportunity.

10 MR. FARVER: We haven't had --

11 MR. SIEBERT: We haven't had to do
12 that, right.

13 CHAIRMAN GRIFFON: I was just
14 going to ask if we had, yes. Right.

15 MR. FARVER: So far what's worked
16 in potential findings was we get responses in
17 time, we can look at them thoroughly. A lot
18 of times we understand what was done so we'll
19 recommend closing it. And on a couple of
20 instances like you'll see here, we recommend
21 that the Subcommittee --

22 CHAIRMAN GRIFFON: I just wanted

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1 to clarify, I wanted to note whether we had a
2 call. And so in this case you don't, there's
3 no recommendation to, no need to change,
4 modify, I mean the concern about the language
5 in the report being misleading.

6 MR. FARVER: We've seen it several
7 different ways. It's like sometimes they will
8 say that it's a --

9 CHAIRMAN GRIFFON: Right.

10 MR. SIEBERT: Well this one didn't
11 specifically say external recorded dose,
12 external missed dose and external ambient
13 dose. It was specified which pieces were best
14 estimate and which were overestimated.

15 MR. FARVER: And we were wrong on
16 that part. But then the number of zeros just
17 did not match up with what they calculated.

18 CHAIRMAN GRIFFON: And so the last
19 column is our action as a Subcommittee. If,
20 I'm just asking the other Subcommittee
21 Members. I mean I think this is okay. Any
22 comments? Any reasons not to close it?

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1 MEMBER MUNN: I don't see any.

2 CHAIRMAN GRIFFON: All right.

3 Fine, we'll close.

4 MR. FARVER: Okay. Moving right
5 along is --

6 MR. SIEBERT: That closed a whole
7 case.

8 MR. FARVER: That closed a whole
9 case, yes, now we're 53.1.

10 CHAIRMAN GRIFFON: We're already
11 more efficient.

12 MR. FARVER: Incomplete accounting
13 of the recorded dose? Okay. This is the one
14 where I mentioned that part of the dose for
15 1958 was assigned in '58 and part of it was
16 assigned in '59. The shallow dose of '58 was
17 just for part of '58 was assigned in '58. The
18 deeper dose was assigned in '59.

19 They assigned all the dose. They
20 broke it out into two separate years. And you
21 could see part of the issue was the dosimeter
22 that ran from December through the beginning

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1 of January from '58 to '59. Our biggest
2 concern was well if you want to put it in '59,
3 put it in '59 or put it in '58.

4 But we just didn't understand why
5 it was split. It makes it difficult to review
6 a dose reconstruction like this when it's not
7 clear if the things are split like that.

8 MEMBER MUNN: So there wasn't
9 anything wrong with it. It just wasn't
10 obvious.

11 MR. FARVER: The numbers were
12 correct, just spread out a little bit.

13 MEMBER MUNN: Okay. It could
14 happen to anybody.

15 MR. FARVER: And really that's the
16 first time I've seen that happen. I don't
17 know if they do that a lot. There was just
18 different ones we haven't seen before.

19 MR. SIEBERT: That's really
20 unusual though, yes.

21 CHAIRMAN GRIFFON: Can I ask for,
22 I know we closed 252. But for both the last

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1 252 and since that closed out the case, like
2 Scott said, and 253, they're both in the SEC
3 time frame. Are they non SEC cancers I assume
4 or are these --

5 MR. CALHOUN: Part of them would
6 have to be, but that doesn't mean, you know,
7 they may have had a second.

8 CHAIRMAN GRIFFON: These years in
9 question, yes.

10 MR. SIEBERT: And it may have been
11 done prior to the SEC. This was done in 2006,
12 the first one was done in 2006.

13 (Simultaneous speaking.)

14 MR. SIEBERT: Yes, the SEC was
15 later then that.

16 MR. KATZ: 2008.

17 MR. SIEBERT: Yes. So that's why
18 there's no --

19 MR. CALHOUN: The second one is
20 SEC cancer only.

21 MR. STIVER: There's only two out
22 of the eight that were not SECs.

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1 CHAIRMAN GRIFFON: That's right.
2 These are the, yes, these are those ones.

3 MR. SIEBERT: And once again, the
4 second one was done in 2007 as well. So the
5 same thing, it's prior to the SEC.

6 MEMBER MUNN: Recommendation is to
7 close it.

8 MR. FARVER: Recommend to close
9 it. Don't know what else to do to it.

10 MEMBER MUNN: That's great. Why
11 not? Discrepancy is explained.

12 MR. FARVER: So we, are we
13 finished with 253.1?

14 CHAIRMAN GRIFFON: Yes.

15 MR. FARVER: Okay. All right.
16 253.2, inadequate information for derivation
17 of the organ dose. This stems from, we
18 couldn't match their calculations. So and
19 this was a Monte Carlo calculation, so a lot
20 of times we do have difficulties matching
21 their numbers. Usually if it's within like
22 ten percent then we'll say okay, it was

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1 probably just due to Monte Carlo fluctuations.

2 Okay. This case, we couldn't
3 match it that close. So when we got this
4 response back Ron went and reworked it again
5 using values from OTIB-12, which does have
6 values in it that you can approximate Monte
7 Carlo calculations. And the values were
8 closer. So it was done correctly. We just
9 had difficulty interpreting it. Was that the
10 gist of it?

11 Part of the reason we had trouble
12 deriving the organ dose was that a file was
13 not included. The IREP output sheet that was
14 included in the files we received did not
15 match the final IREP workbook sheet. So we
16 didn't know how you got from one to the other.
17 The numbers were different.

18 So you have a workbook which the
19 final page has your IREP output. And then you
20 have your final IREP input sheet. And they
21 should match. So there's two and --

22 CHAIRMAN GRIFFON: When was this

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1 form dated?

2 MR. SIEBERT: 2007, early 2007.

3 CHAIRMAN GRIFFON: Because I, I
4 mean I understand and it seems, the outcome
5 seems fine. In the middle of the response,
6 the first paragraph, they say the practice was
7 not to include the detailed calculations at
8 the time, the practice was not to include the
9 detailed calculations with the claim files.
10 Wasn't this after we talked about the show all
11 work, include all the work kind of concepts or
12 no?

13 MR. SIEBERT: 2007's awfully early
14 for that.

15 CHAIRMAN GRIFFON: I can't
16 remember.

17 MR. SIEBERT: Compared to this
18 Subcommittee.

19 CHAIRMAN GRIFFON: Yes.

20 (Simultaneous speaking.)

21 MR. SIEBERT: Well and I
22 personally think it probably should have been

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1 included as well.

2 MR. FARVER: Anyway, we suggest
3 closing that one because we don't know what
4 else to do with it.

5 CHAIRMAN GRIFFON: Is everybody in
6 agreement?

7 MEMBER MUNN: Yes.

8 MR. FARVER: Now if we want to
9 look at an observation, we can look at
10 observation one on the next page of 253. We
11 were able to match NIOSH's numbers for certain
12 years. But there were two years when our
13 adjusted gamma dose was less than what was
14 used by NIOSH.

15 Now this goes back to, NIOSH was
16 very good about this. They did give responses
17 to observations. It goes back to their
18 response for 253.2. And I'm guessing that had
19 to do with the file that wasn't included. The
20 reason that we couldn't match those couple of
21 years because it was done a little bit
22 differently in the worksheet that we didn't

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1 have. But that's an example of an
2 observation.

3 CHAIRMAN GRIFFON: I mean why was
4 that separate from 253.2? You reported that
5 separately, why?

6 MR. FARVER: Just an observation.
7 It really didn't impact, excuse me, impact
8 anything. It was one of these cases where the
9 numbers didn't exactly match. We didn't know
10 why, but it really wasn't going to have an
11 impact on anything.

12 MEMBER MUNN: It was explained in
13 253.2 why there should be, why it would not be
14 unexpected to have slight differences.

15 CHAIRMAN GRIFFON: Yes, I was just
16 trying to understand why that was listed
17 separately than the finding we just went
18 through.

19 MR. FARVER: The same thing for
20 observation two.

21 CHAIRMAN GRIFFON: No action. Are
22 we in agreement as a Board first?

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1 MEMBER RICHARDSON: I don't
2 understand. So there's a bunch of these like
3 253.4 and .3, all these are tied back to
4 253.2, the kind of the response that's given
5 there.

6 MEMBER MUNN: Yes.

7 MEMBER RICHARDSON: But how does
8 that response kind of bear on like observation
9 number four related to the neutron dose?
10 Maybe I'm not -- is it sort of that this sheet
11 was quirky and they used values based on a
12 phone conversation?

13 MEMBER MUNN: Well probably
14 because --

15 MR. STIVER: It looks like there's
16 -- it was a Monte Carlo calculation.

17 MEMBER MUNN: And SC&A had half,
18 found half that assigned by NIOSH in cases
19 where the findings are claimant favorable then
20 there's not going to be any major --

21 MR. STIVER: That's a best
22 estimate Monte Carlo.

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1 MR. SIEBERT: And remember those
2 findings were prior to them using the OTIB-12
3 DCFs which were closer DCFs than what you're
4 going to see in Monte Carlo. And then once
5 they did that those are things that matched up
6 better, is my understanding from what they
7 did.

8 MR. HINNEFELD: How many workbook
9 sheets are we talking about in our response to
10 253.2? There's the RFP workbook version
11 three, IREP output, which really isn't an IREP
12 output. It's an input to some Monte Carlo
13 calculation.

14 MR. SIEBERT: It's the output from
15 the workbook in IREP form. It's the last page
16 of the workbook.

17 MR. HINNEFELD: So and then down
18 in the next paragraph, there's an input data
19 worksheet. Is that part of the RFP tool, the
20 RFP workbook?

21 MR. SIEBERT: Yes, input data is
22 the second tab in the tool.

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1 MR. HINNEFELD: So that's one of
2 the tabs?

3 MR. SIEBERT: It's one of the tabs
4 in the tool.

5 MR. HINNEFELD: Okay. And there's
6 a comment there that says when the NDRP gamma
7 dose is greater then the DOE file reported
8 dose you make some sort of correction to
9 something.

10 MR. SIEBERT: Right.

11 MR. HINNEFELD: Which would be
12 photon dose or?

13 MR. SIEBERT: It's, yes, it's the
14 whole NDRP collection stuff. I don't have
15 that off the top of my head as to what the
16 specific corrections are. But it's handling
17 the NDRP data.

18 MR. HINNEFELD: Okay so it's, so
19 it has to do with the interpretation of the
20 NDRP data. And it's sort of a conditional
21 when the photon doses or gamma doses -- and
22 then the year worksheets are other tabs of the

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1 tool, of the RFP worksheet where it talks
2 about the, on the year worksheets --

3 MR. SIEBERT: Yes, those are all
4 still tabs of the --

5 MR. HINNEFELD: Those are tabs on
6 the RFP workbook. Too many moving parts for
7 my brain.

8 CHAIRMAN GRIFFON: I know it's a
9 little late in the day to figure out some of
10 this --

11 MR. HINNEFELD: So something about
12 when the RFP gamma dose is used, it's used in
13 some fashion for like based on the missed dose
14 zero selection. This is all a fairly, it
15 seems to me to be an, it's a fairly
16 complicated interpretation that uses the NDRP
17 dose.

18 MR. SIEBERT: That's what we're
19 going on.

20 MR. HINNEFELD: And it's built
21 into the worksheet and so not, if someone like
22 me looked at the worksheet I would be

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1 completely flabbergasted about what I was
2 looking at. I mean I would not know really
3 what I -- because I don't do this. But it's
4 the interpretation of the, how to utilize the
5 NDRP data which I recall is there are a bunch
6 of things, there's bits and pieces, a bunch of
7 different pieces to the NDRP.

8 MR. SIEBERT: Right it's not a
9 full data set for that individual. It's
10 pieces, parts that we have to interlock into
11 what we have.

12 MR. HINNEFELD: So you have to
13 assemble it and based on some if's and then's
14 and that's all done in the workbook.

15 MR. SIEBERT: That's what that is.

16 MR. FARVER: And what we found is
17 -- the workbook we've got all the IREP output
18 or input data. And then you have the final
19 IREP file that you plug in and do your PoC
20 calculations. Those two things did not match
21 and we, for some, for some it did.

22 And so we're questioning, well

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1 where are the work calculations, and when we
2 did our calculations we always came up with
3 less. So the numbers in the final IREP were
4 higher, but we weren't exactly sure why. But
5 they were less, that's claimant favorable.

6 That we did not make in a finding.

7 MR. HINNEFELD: Okay. So when it
8 was, when your numbers were higher then it
9 showed in the finding.

10 MR. FARVER: If it would have
11 showed up higher we probably would have made
12 it a finding.

13 MR. HINNEFELD: Okay. And when it
14 showed lower then it's not. They showed up
15 lower on --

16 CHAIRMAN GRIFFON: That's still a
17 finding. But that's not the question I guess,
18 you know. It's a quality finding you're
19 saying.

20 MR. FARVER: Yes, because the file
21 was not included at the group of files.

22 MR. HINNEFELD: Okay.

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1 MR. STIVER: I'm not sure we even
2 understood what they did.

3 MR. SIEBERT: Right that was at
4 the time, as I said when we moved forward one
5 tool was used that has the generic
6 overestimates of the DCF1, something like that
7 to put the data into the correct format for
8 the complex, for the best estimate tool to do
9 the Monte Carlo calculations on the pieces
10 that needed that Monte Carlo calculation.

11 That's why there's some of it that
12 will stay the same such as medical technology,
13 I believe missed dose, those things stayed the
14 same because Monte Carlo doesn't affect them.
15 But the Monte Carlo calculations that were
16 different were the ones that were run through
17 the tool for the measured external, and yes
18 that file should have been in there.

19 (Simultaneous speaking.)

20 CHAIRMAN GRIFFON: This is another
21 tough one only because, I mean, I think
22 observation number one I still think should be

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1 a finding number one. But you know this, the
2 explanation this is a 2007 case, not a 2001
3 case. So, you know, the idea of well this was
4 a while ago or a long time ago. I mean, I
5 don't know.

6 MR. FARVER: And the reason --

7 CHAIRMAN GRIFFON: We have to
8 start to watch out for that explanation.

9 MR. FARVER: -- was number one
10 they were already identified in a finding that
11 we didn't know how they came up with their
12 doses. We identified that something was
13 different between the two IREP sheets. So we
14 already made that a finding.

15 So now we're getting down here and
16 we do some calculations and we figure well
17 there's a couple here that we don't really
18 know why they came up the way they did. But
19 they're less than, I mean they're less than
20 the NIOSH values so that's claimant favorable,
21 it's already been identified.

22 And really to tell you the truth

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1 these could go either way. I can make them
2 findings or I can make them observations.

3 CHAIRMAN GRIFFON: I mean are
4 those all part of the --

5 MR. FARVER: It's all part of, you
6 don't know how you got from this IREP table to
7 this IREP table. So we did our calculations
8 and they don't match yours, but we don't know
9 what calculations you really used.

10 MR. SIEBERT: So then really the
11 specifics for portions of what's discussed in
12 253.2, specific years and information as
13 opposed to the generic issue of you couldn't
14 understand where the numbers came from, why
15 there's a difference between the IREP sheet
16 from the end of the tool and the IREP sheet
17 that was actually run for PoC.

18 MR. FARVER: Yes.

19 CHAIRMAN GRIFFON: But then to get
20 to this 253 observation two. I don't think
21 we're going to, you know, maybe wind it up
22 with this discussion. But observation two,

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1 you talk about this like David said the phone
2 call. And, you know, the other interesting
3 part for me in that explanation is that this
4 new dose conversion factor, it wasn't included
5 in the modified TBD. Is that what I'm
6 understanding this to say?

7 MR. SIEBERT: Correct.

8 MR. FARVER: So that probably
9 should have been a finding.

10 CHAIRMAN GRIFFON: Yes.

11 MR. FARVER: That one, now that
12 I'm reading it. But you know, once again it
13 didn't have an impact on the case.

14 CHAIRMAN GRIFFON: But it could
15 impact on a wider number of cases if --

16 MR. FARVER: It could have. I'm
17 looking at that now thinking, you know --

18 CHAIRMAN GRIFFON: You know, was
19 this person right with the phone call or was,
20 I'm not following this. You know, is --
21 should the -- why wasn't the TBD modified?

22 MR. SIEBERT: I can't speak to --

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1 CHAIRMAN GRIFFON: I'm sort of
2 asking.

3 MR. STIVER: That one probably
4 should have been a finding.

5 MR. FARVER: Yes, and a lot of
6 time when we're --

7 CHAIRMAN GRIFFON: That certainly
8 could affect other cases and it wasn't done --

9 MEMBER RICHARDSON: I guess it's a
10 bigger question of are values often changed
11 based on telephone conversations?

12 CHAIRMAN GRIFFON: Right.

13 MEMBER RICHARDSON: I mean have we
14 seen this as a precedent before?

15 CHAIRMAN GRIFFON: I haven't.

16 MR. STIVER: This is back in the
17 early years.

18 CHAIRMAN GRIFFON: No, this is not
19 early years though. I don't --

20 (Simultaneous speaking.)

21 MEMBER RICHARDSON: So here's a
22 bigger question though. Are values changed

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1 based on phone calls that happened three years
2 ago and haven't been documented anywhere?

3 CHAIRMAN GRIFFON: Right.

4 MR. SIEBERT: Well that comment
5 was not a comment that was put in by the dose
6 reconstructor in 2007. That's a comment that
7 was in the workbook explaining why the DCF,
8 the ICRP-60 DCF value was different than what
9 we would normally refer back to.

10 CHAIRMAN GRIFFON: And this value
11 was not implemented in subsequent revisions.

12 MEMBER RICHARDSON: But it was in
13 that revision?

14 CHAIRMAN GRIFFON: Yes.

15 MR. STIVER: It was in that
16 revision that the --

17 MEMBER RICHARDSON: I mean it was
18 in that revision of the workbook, but was it
19 in the --

20 MR. SIEBERT: I can't tell you
21 specifically on that one.

22 CHAIRMAN GRIFFON: I'm reading

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1 what I'm seeing here. I don't know.

2 MR. STIVER: It was not
3 implemented but I don't know why it was
4 incorporated to begin with.

5 MEMBER RICHARDSON: I mean the
6 spreadsheet is supposed to represent as
7 implementing procedures that are -- the
8 spreadsheet is supposed to be a calculation
9 following on procedures, right?

10 MR. SIEBERT: Generally true or
11 documenting updated things until we can get
12 the procedures updated to what the new
13 information is if we have to do that. That's
14 the kind of thing that we put the dose
15 reconstructor guidelines in place. Something
16 like that would be called out these days in
17 something like that so it's documented
18 somewhere other than just within the tool.

19 CHAIRMAN GRIFFON: Because you
20 might wait on updates to --

21 MR. SIEBERT: To the TBD itself.

22 CHAIRMAN GRIFFON: -- because

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1 you've got several -- comments and --

2 MR. SIEBERT: But we may want to
3 use the best information for interim, which,
4 you know, we run that stuff through DCAS and
5 we make those decisions.

6 CHAIRMAN GRIFFON: Well I'm
7 interested in looking at case 253 myself. I
8 don't know that we can, you know, I think,
9 yes, I think if nothing else observation two I
10 think should be elevated to a finding. And I
11 don't know that I'm prepared to discuss this
12 further without looking at more of the details
13 of that case, back at your report I think.

14 MR. FARVER: My report didn't say
15 a whole lot about that observation.

16 CHAIRMAN GRIFFON: Maybe just,
17 maybe it's a matter of, you know, pulling the
18 case file. I think I'm interested enough in
19 this one to understand what was happening in
20 the workbook. Other's opinion. We're hitting
21 that time of day.

22 MR. FARVER: Well I shouldn't say

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1 that. There is a Table 5 in our report that
2 kind of lists all the different dose
3 conversion factors and the different TBD
4 revisions and it has changed over the years.
5 And then the one that was used in this DR
6 Report is a completely different one. In
7 other words, the TBD says .345. And this one,
8 the DR Report used .327.

9 CHAIRMAN GRIFFON: That was the
10 DCF we were just talking about?

11 MR. FARVER: Yes. So I guess
12 you'll have to look at the evolution of why it
13 changed from 654 to 345 and how it wound up to
14 327, which is half of 645.

15 CHAIRMAN GRIFFON: I don't know.
16 I was looking at the next case to see if it
17 was just like one finding and maybe we could
18 tackle that. But I think we might have to
19 leave it at that.

20 MR. FARVER: Yes, this one's just
21 a..., we don't know why you used that dose
22 conversion factor when there's other ones out

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1 there. And maybe that should have been a
2 finding.

3 CHAIRMAN GRIFFON: Okay. I mean
4 is there any, who has, I mean I can go a
5 little while longer. I don't have a time
6 frame here. If we want to attack --

7 (Simultaneous speaking.)

8 CHAIRMAN GRIFFON: I would say
9 this for now. I'm not prepared to close on
10 those observations. But maybe we can move on
11 to 274.1.

12 MR. FARVER: I'm not sure you want
13 to do that.

14 CHAIRMAN GRIFFON: Is it nasty?

15 MEMBER MUNN: Well it's the
16 workbook.

17 MR. FARVER: It's messy.

18 MEMBER MUNN: Yes.

19 MR. STIVER: RFP workbook.

20 MR. FARVER: I can give you a
21 preview.

22 CHAIRMAN GRIFFON: Yes, give us a

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1 preview and then maybe we'll decide whether we
2 want to call it a day. Make it nasty.

3 MEMBER MUNN: It goes on, it goes
4 on and on.

5 MR. FARVER: Do you remember from
6 that report I wrote there was one of these
7 that I listed as unknown because I didn't know
8 what the cause of it was? Guess which one
9 this is.

10 MEMBER MUNN: This was it.

11 CHAIRMAN GRIFFON: Now I'm
12 intrigued.

13 MR. KATZ: Maybe we should
14 schedule the next meeting, that way you, in
15 January, you have all this -- still ready
16 for..., so we don't have to wait so long.

17 MR. FARVER: Yes, you may want to
18 look at this one for the next meeting because
19 --

20 MR. STIVER: That's a good idea.
21 Prepare it in advance.

22 MR. SIEBERT: It's NDRP

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1 manipulation.

2 MR. FARVER: It's NDRP
3 manipulation.

4 CHAIRMAN GRIFFON: Alright.
5 You've said enough. Ted's got a good idea.
6 Let's schedule the next meeting.

7 MR. FARVER: Quickly the employee
8 had reported dose for a certain amount of
9 years. And it came up to like 5.5 rem over
10 the period of four years if you look in the
11 dosimetry files.

12 MEMBER MUNN: Which is not a big
13 deal for four years.

14 MR. FARVER: Okay 5.5 rem. And
15 now it's, you go to the DR Report and there's
16 zero recorded dose for those five years.

17 MEMBER MUNN: Go figure.

18 MR. FARVER: Go figure.

19 CHAIRMAN GRIFFON: That's a good
20 place to leave us. Go figure.

21 (Simultaneous speaking.)

22 CHAIRMAN GRIFFON: Alright.

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1 Let's look at our calendars and these meetings
2 always end up this way don't they?

3 MR. STIVER: They end up pretty
4 punchy at the end of the day.

5 MR. KATZ: So let's put this as
6 the first item of our agenda for next time.
7 We'll start with these case reviews.

8 MR. KATZ: They're closely related
9 emotionally.

10 CHAIRMAN GRIFFON: Alright. So
11 let's look into January.

12 MR. KATZ: How about the third
13 week in, the week of January 14th? How does
14 that look?

15 CHAIRMAN GRIFFON: The week of the
16 14th?

17 MR. KATZ: How does that look for?

18 MEMBER MUNN: I will not be
19 available in January.

20 MS. LIN: Do you already have a
21 procedure review the 5th of February?

22 MEMBER MUNN: Yes, I do.

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1 MR. STIVER: Tag onto that.

2 (Simultaneous speaking.)

3 CHAIRMAN GRIFFON: You're not
4 available in January at all, Wanda?

5 MEMBER MUNN: I don't see how I
6 could be. I could probably do a phone on the
7 third week in January.

8 MR. CALHOUN: The 6th and the 16th
9 is bad for me in January.

10 MR. HINNEFELD: I can't do the
11 18th.

12 MR. FARVER: What about the fourth
13 of February?

14 (Simultaneous speaking.)

15 MR. HINNEFELD: What are we
16 talking about?

17 CHAIRMAN GRIFFON: How about the
18 14th? Wanda, can you dial in that day or?

19 MEMBER MUNN: I could dial in on
20 the 14th, yes.

21 MR. STIVER: January 14th.

22 CHAIRMAN GRIFFON: Is that

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1 possible? Or wait a second or better yet the
2 15th, I'm sorry.

3 MR. FARVER: The 15th is better
4 for me then the 14th.

5 CHAIRMAN GRIFFON: 15th, yes.

6 MEMBER MUNN: I'll try. I'm not
7 going to be very available that day, but I can
8 be on and off.

9 MR. KATZ: Well we need to worry
10 about a quorum too. Poston didn't show and so
11 we have to be careful about that.

12 MEMBER CLAWSON: We'll shoot for
13 that one.

14 CHAIRMAN GRIFFON: Is another day
15 better in that week, Wanda?

16 MEMBER MUNN: My spouse's surgery
17 is on the 5th.

18 MR. KATZ: So that's actually not
19 any good that week then.

20 MEMBER MUNN: I mean it's on the
21 8th and so I'm going to be kind of --

22 MR. KATZ: Well then let's push it

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1 up. If I don't have a quorum we can't meet.
2 And we don't want to show up here and find out
3 we can't meet.

4 CHAIRMAN GRIFFON: Well then
5 realistically what was the 5th was the
6 Procedures?

7 MEMBER MUNN: No, the 5th of
8 February is Procedures.

9 CHAIRMAN GRIFFON: I mean, how
10 about the 4th then, yes?

11 MEMBER MUNN: It's a possibility.

12 MR. KATZ: The 4th is open.

13 MR. KATZ: Is the 4th okay, folks?

14 (Simultaneous speaking.)

15 MR. KATZ: Let's do the 4th.

16 MR. STIVER: The 4th it is.

17 MR. HINNEFELD: We'll start at
18 8:30 again?

19 MR. KATZ: Yes, let's start at
20 8:30. Okay.

21 CHAIRMAN GRIFFON: Alright.

22 MR. KATZ: Okay. So February 4th,

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1 8:30 and here, but call in if you can't come.

2 CHAIRMAN GRIFFON: Alright. And
3 with that I think meeting adjourned.

4 MR. KATZ: And thank you everyone
5 for all your hard work. And thank you
6 everyone on the line. And have a good day.

7 (Whereupon, the meeting in the
8 above-entitled matter was concluded at 5:01
9 p.m.)

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