

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

+ + + + +

ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEW

+ + + + +

MONDAY
AUGUST 6, 2012

+ + + + +

The Work Group convened in the Paris 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
- JAMES M. MELIUS, Member*
- WANDA I. MUNN, Member
- JOHN W. POSTON, SR., Member
- DAVID B. RICHARDSON, Member*
- PAUL L. ZIEMER, Member*

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ALSO PRESENT:

TED KATZ, Designated Federal Official
KATHY BEHLING, SC&A*
GRADY CALHOUN, DCAS
DOUG FARVER, SC&A
STUART HINNEFELD, ORAU Team
JOHN MAURO, SC&A*
MICHAEL RAFKY, HHS*
BETH ROLFES, DCAS
MUTTY SHARFI, ORAU Team*
SCOTT SIEBERT, ORAU Team
JOHN STIVER, SC&A*

*Participating via telephone

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

2 8:35 a.m.

3 MR. KATZ: This is NIOSH; this is
4 the Advisory Board on Radiation and Worker
5 Health, Dose Reconstruction Review
6 Subcommittee. We will begin with roll call.
7 And since this is the Subcommittee, we need to
8 talk about conflict of interest as well, for
9 the Board Members only. So as you register,
10 one main component of this meeting, we're
11 talking about Savannah River Site cases. If
12 you have a conflict with Savannah River Site,
13 please note that and that you will be recused
14 from that discussion. We're talking about
15 other cases, as well. So any of your major
16 sites where you have conflicts, please note
17 those as we go through the roll call.

18 So let's get started with Board
19 Members in the room.

20 (Roll call.)

21 MR. KATZ: Okay then. The agenda
22 for the meeting is posted on the website, as

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1 is -- well, there may be some materials
2 associated with this meeting. Most of the
3 materials are Privacy Act-protected.

4 And let me just note for Board
5 Members and staff, I circulated a document
6 that Mark had forwarded me last night to all
7 the staff, or most of the staff at least, and
8 all the Board Members just this morning. So I
9 sent them to your CDC account and your
10 personal account in most cases. Brad, I may
11 have missed you, so I'll forward it right now.
12 It's your agenda.

13 CHAIRMAN GRIFFON: And that
14 document that Ted sent out is for the 1 p.m.
15 We have one thing that's sort of time-specific
16 on the agenda today, which is the revisiting
17 the Board's dose reconstruction case review
18 process. And what Ted sent out was like sort
19 of the original draft that we came up with,
20 original procedure we came up with of sort of
21 how to look at it. I think we have basic
22 reviews, advanced reviews, blind reviews, it

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1 outlines what we were thinking of back then,
2 which, you know, it might have migrated a
3 little from that, but at least it will give
4 you a sense of where we started from. And
5 that's time-sensitive, because Jim Melius and
6 Paul Ziemer are going to phone in at 1:00 to
7 join that discussion. So we're going to sort
8 of keep that there.

9 Otherwise, Ted was helpful enough
10 to help me put together the agenda. Actually,
11 I think he did it. I don't even remember.
12 But, you know, it's similar topics that we had
13 on the last meeting's agenda and I think we
14 can go right down these. I think one of the
15 big topics this morning we're going to cover
16 is probably Scott's presentation of the ORAU
17 QA/QC program. But we can do these first two
18 items first. Stu, is that okay, this order? I
19 think they're both your sort of actions.
20 We've asked you to report back to us on these.

21 MR. HINNEFELD: Yes, yes. Ray
22 will be doing most of the -- he'll be doing --

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1 CHAIRMAN GRIFFON: Oh, okay, yes.
2 Sorry. So, update on DCAS blind dose
3 reconstruction quality control review. David,
4 I'm assuming, by the way, you have these
5 materials. David Richardson?

6 MEMBER RICHARDSON: Yes, I'm
7 pulling them up now.

8 CHAIRMAN GRIFFON: Okay, okay. So
9 we're working from that agenda that was sent
10 out?

11 MEMBER RICHARDSON: Yes, I have
12 that.

13 CHAIRMAN GRIFFON: Alright. So,
14 blind dose reconstruction quality control
15 reviews.

16 MR. CALHOUN: Okay. Basically,
17 it's just really a numbers update. As we
18 talked about last time, we go through and pick
19 a few each week, dose reconstructions to
20 review. These are cases that have not been
21 completed by ORAU yet, and we assign those to
22 one of our guys. Once they come over from

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1 ORAU, a third party reviews them and looks at
2 what we've done versus what ORAU has done.
3 Very few, if any, of these have gone through
4 final adjudication yet through Department of
5 Labor. So, basically, what I have here is
6 we've got 57 that have been selected to this
7 point. Twenty-one of those have been
8 completed, ten are assigned to health
9 physicists in DCAS, and twenty-six have not
10 yet been assigned to our guys for review.

11 Some of the things that we
12 continue to need to work on that we haven't
13 done a whole lot on yet is, based on our last
14 assessment, we believe that we could do a
15 better job in determining, at least
16 documenting why we made decision A versus
17 decision B. So we need to get that out. We
18 haven't done much on that yet. And that's
19 basically where we are on the blind DRs.

20 CHAIRMAN GRIFFON: So when you say
21 better job documenting decision-making
22 process, or I'm paraphrasing, that's sort of

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1 one of your preliminary findings from your --

2 MR. CALHOUN: Yes, we documented
3 that in recommendations for improvement of
4 program. So that's just something that we
5 need to do.

6 CHAIRMAN GRIFFON: Okay.

7 MR. CALHOUN: And what that's
8 really going to involve is just talking to the
9 folks doing the reviews and saying, hey, you
10 know, when we come back and look at this two
11 weeks later, we really don't know why you
12 chose A or B --

13 CHAIRMAN GRIFFON: Write down your
14 work, show your work kind of thing that --

15 MR. CALHOUN: Yes, yes.

16 CHAIRMAN GRIFFON: -- we've said.
17 Yes.

18 MEMBER CLAWSON: Well, I just want
19 to clarify on this. That's the same thing
20 that we've been saying. When you're talking
21 about this, you're talking about why you use
22 this process versus the other one, just

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1 documenting better.

2 MR. CALHOUN: Right, right, right.

3 And these aren't like a full-blown dose
4 reconstruction. We showed these, at least a
5 couple examples of these, I think it was at
6 the last meeting. And, basically, our guys
7 will go through and do a dose reconstruction,
8 and, well, they don't write the report, but
9 they'll come up with the numbers. And they
10 just free-form write into an area what they
11 did, and it could be clearer as to why they
12 did it.

13 MEMBER CLAWSON: Right. And
14 that's something that we have seen quite a bit
15 of is: how did we get to that?

16 MR. KATZ: It just needs some
17 clarification, though. I think you're talking
18 about when you do the blind dose, because the
19 people that you have doing the blind dose
20 reconstruction are not showing their work --

21 MR. CALHOUN: Correct, correct.

22 MR. KATZ: It's not a criticism of

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1 the ORAU original dose reconstruction that
2 you're reviewing --

3 (Simultaneous speakers.)

4 MR. KATZ: -- your own review
5 process. You were thinking the other.

6 MEMBER CLAWSON: So was I.

7 CHAIRMAN GRIFFON: And going back
8 to the numbers then, you said that, the last
9 time we talked, we talked about you were
10 putting this stuff in a database of some sort
11 and that we, the Board, could get access to
12 that. Did you set that up or --

13 MR. CALHOUN: Right now I don't
14 know that we can, because they're pre-
15 decisional, they haven't gone through the
16 final adjudication. And that's usually what
17 we do when we do dose reconstructions that are
18 reviewed. I believe when we ran that by our
19 legal team that's what they said. Now,
20 there's certainly a way that we can get you
21 the, I guess the data sheets that we have. We
22 haven't done that yet.

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1 CHAIRMAN GRIFFON: What are the
2 data sheets? What do you mean?

3 MR. CALHOUN: Those are our actual
4 reviews.

5 CHAIRMAN GRIFFON: Oh, okay.

6 MR. CALHOUN: There's a form, of
7 course, that we fill out for every one of them
8 that goes through and says, you know, there's
9 something on internal, there's something on
10 external. That's the comparison of the two
11 dose reconstructions, the ones completed by
12 ORAU versus the ones completed in-house,
13 because we have a third person that will look
14 to compare the two after they're done.

15 CHAIRMAN GRIFFON: I guess I'm
16 curious because we talked last time about
17 being able to see at least the information in
18 aggregate form. We didn't want to re-review
19 each case, of course, you know, because we're
20 selecting separately, but just to see this in
21 aggregate form I think would be useful, like
22 what have you found in terms of QA as you go

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1 through, you know.

2 MR. CALHOUN: That would be easy to
3 do.

4 MR. KATZ: Well, that's your
5 reports, right?

6 MR. CALHOUN: Yes.

7 CHAIRMAN GRIFFON: Oh, that's the
8 reports? That's not the data --

9 MR. CALHOUN: No, those are one-by-
10 one. What would happen, what I would
11 recommend is that every so often we just do
12 another assessment, because that threw
13 together all of them for you that were done to
14 that point. And so we need to do that anyway
15 to look at how our program is going, so maybe
16 every whatever, ten cases, after the tenth
17 case is complete we do an assessment of all
18 those and then you can see --

19 CHAIRMAN GRIFFON: I was just
20 under the impression that this was, you know,
21 that you were putting it into some sort of
22 database as you were going along.

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1 MR. CALHOUN: It's not a data
2 base. It's sheet by sheet.

3 CHAIRMAN GRIFFON: Okay. Sheet by
4 sheet, yes, yes.

5 MEMBER RICHARDSON: Remind me,
6 what number are you on now?

7 MR. CALHOUN: One.

8 CHAIRMAN GRIFFON: No, no, no --

9 MR. KATZ: How many cases have you
10 --

11 MR. CALHOUN: Fifty-seven
12 selected. Twenty-one completed, ten assigned,
13 twenty-six selected for review but not yet
14 assigned to a DCAS health physicist.

15 CHAIRMAN GRIFFON: And when you
16 say 21 completed, that's by ORAU?

17 MR. CALHOUN: No, that is we have
18 looked at it in our review. The third party
19 has compared both of them, so it's done.

20 MEMBER RICHARDSON: So could we
21 expect a report at 20, at 25? What number --

22 MR. CALHOUN: I'll make sure that

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1 you get one for the next show, for the next
2 meeting, okay?

3 MR. KATZ: Yes, I think ten would
4 be good because that will be almost every
5 meeting we'd have an update, right? That
6 would be good, sort of periodicity.

7 CHAIRMAN GRIFFON: Yes.

8 MR. KATZ: And then, just to be
9 clear, those checklists or whatever it is that
10 summarize, you'll make those become available
11 somehow?

12 MR. CALHOUN: I think. Stu, do
13 you remember what the discussion was on that?

14 MR. HINNEFELD: I don't recall
15 exactly.

16 MR. CALHOUN: We looked into that,
17 and I don't know -- I know that from a -- you
18 can't access it through NOCTS, I don't
19 believe. I don't know if you have rights to
20 do that. We can't. I don't know if they can
21 or not.

22 MR. HINNEFELD: See what? What

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1 I'm looking at?

2 MR. CALHOUN: Yes.

3 MR. HINNEFELD: They don't have
4 it.

5 CHAIRMAN GRIFFON: I think that's
6 what --

7 MR. KATZ: I mean, anything can be
8 made available if it's okay with OGC.

9 MR. CALHOUN: Right. If it's okay
10 with them. We'll check on that.

11 MR. KATZ: You'll pursue that?

12 MR. CALHOUN: Yes.

13 MR. KATZ: Okay.

14 CHAIRMAN GRIFFON: Alright, I
15 don't think there's much more to say on that.

16 How about the second topic, items related to
17 the NIOSH 10-year review? And does that
18 include -- there was a cost assessment thing
19 sent around, right? Is that one of the --

20 MR. KATZ: Yes, that's one of
21 them.

22 CHAIRMAN GRIFFON: Yes.

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1 MR. KATZ: And I've re-circulated
2 that or somehow reminded everybody where we
3 got that. We got that from Stu back in the
4 spring.

5 CHAIRMAN GRIFFON: Right.

6 MEMBER RICHARDSON: I'm sorry.
7 I'm thinking a little bit about the blind dose
8 reconstruction still.

9 CHAIRMAN GRIFFON: Okay.

10 MEMBER RICHARDSON: Maybe there's
11 no opportunity right now to do more, but if we
12 could take a little bit of time after seeing
13 the report at the next meeting to think about,
14 you know, how that report is structured and
15 how we might be able to give some useful
16 feedback for other things that would be, you
17 know, that would fit in with all those
18 discussions we had leading up to doing these
19 blind dose reconstructions about, you know,
20 quality assurance/quality control and trying
21 to give some feedback to NIOSH about how best
22 to use these. Because right now, you know,

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1 one-by-one I think is a very kind of detail-
2 focused, kind of granular approach to looking
3 at those data, but there might be other ways
4 of doing exploratory analysis to understand
5 bigger, kind of the larger topography of the
6 main issues.

7 So just to put that out there,
8 because it sounds like it's moving ahead now;
9 and, yet, we don't want it simply for the
10 process, we want it for the results. And it's
11 not quite clear how those results are going to
12 be presented and analyzed and understood yet.

13 CHAIRMAN GRIFFON: Okay. Yes,
14 that sounds good, David. I mean, I'll put
15 that on here. And I think, yes, you know, we
16 can't really speak to that much until we see
17 at least the first cut. But I'll put it on
18 that the Subcommittee can discuss that first
19 report and whether we have comments on what it
20 includes, how it can be used, et cetera.
21 Okay.

22 MEMBER RICHARDSON: It's great.

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1 Again, it's great that NIOSH is doing this.

2 CHAIRMAN GRIFFON: Yes.

3 MR. STIVER: This is John Stiver.

4 I just got on the line.

5 MR. KATZ: Oh, welcome John.

6 CHAIRMAN GRIFFON: Why weren't you
7 here, John?

8 (Laughter.)

9 MR. STIVER: There's a long story
10 there, involving about a five-hour wait and
11 then a cancellation and -- you don't want to
12 know.

13 CHAIRMAN GRIFFON: No excuses.

14 MR. STIVER: Yes, I know. I
15 thought about taking a train or a bus --

16 MR. KATZ: Greyhound's always --

17 CHAIRMAN GRIFFON: Bicycle. Okay.

18 So I think we're on to our next item. The
19 second item is the items related to NIOSH 10-
20 year review. And if I'm reading this right,
21 are the four things under that, are they sub-
22 bullets?

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1 MR. KATZ: Yes.

2 CHAIRMAN GRIFFON: Okay. It's a
3 little confusing here. So we've got the four
4 bullets under there, including the ORAU
5 quality management system and the cost
6 assessment, which we've got two separate
7 deliverable products on. Before this meeting,
8 everybody should have got those, right?

9 MR. KATZ: Two?

10 CHAIRMAN GRIFFON: Well, we've got
11 something on the quality management system.

12 MR. KATZ: Oh, yes, all right.
13 Two separate. Quality is one and cost is
14 another document, right?

15 CHAIRMAN GRIFFON: Right. So I
16 guess we can go with the QA management system
17 first. And Scott Siebert has joined us and is
18 going to present something on this.

19 MR. SIEBERT: I am. Now I'm
20 waiting for my projector to warm up here real
21 quick. Have I sufficiently impressed people?
22 Can I take my jacket off?

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1 MEMBER MUNN: Yes. Thank you for
2 the show.

3 MEMBER POSTON: You forgot to turn
4 around.

5 (Laughter.)

6 MR. SIEBERT: Oh, look at that.
7 It's working.

8 MEMBER MUNN: Excellent.

9 MR. SIEBERT: Alright. These
10 slides are just based upon the document that
11 we sent out about a week or two ago that was
12 actually outlining our QMS system. So there
13 should be nothing new in here if you've had a
14 chance to read over that document.

15 So as said, I am Scott Siebert,
16 still senior health physicist with ORAU team.

17 We're going to handle our quality management
18 system, QMS. We based our QMS system on the
19 ISO 9000 document, which is talking about the
20 requirements. I'm going to break down the
21 five requirements that are all right here: our
22 documentation requirements; our competence,

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1 awareness, and training; product realization;
2 monitoring and measurement of product;
3 analysis of data and information; and we're
4 going to look at each piece of these
5 separately.

6 Okay. So for our documentation
7 requirements, we do control all our documents.

8 We have a document control system.
9 Everything is prepared, reviewed, approved,
10 issued, used, and revised following our
11 prescribed processes. We have documentation
12 in place that describes that process, and
13 that's actually tracked through that same
14 process, which is interesting. So we actually
15 have just hundreds and hundreds of documents
16 that are through this system, and they all
17 follow this specific requirement.

18 We also control our records. We
19 show our results from our records from the
20 definition from ISO 9001. Results that were
21 achieved or evidence of activities performed
22 and, obviously, legible, readily-identifiable,

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1 and retrievable, unlike many of the records
2 that we get to decipher from other parts of
3 this project. Everything that we do ends up
4 being electronic, so it's obviously easily
5 tracked and retrievable or at least at the
6 moment it's retrievable. Now, anybody who's
7 tried to open up a Bernoulli drive recently or
8 anything paper tape, we'll see what happens.

9 Competence, awareness, and
10 training is the next section. And if I go
11 through here too quick and you guys have any
12 questions, by all means, just jump in. We
13 have qualified personnel by our contract.
14 It's a minimum of a bachelor's degree in a
15 science that is related to dose reconstruction
16 -- internal, external health physics, whatever
17 -- or two years of professional experience.
18 When somebody just meets the minimum, we have
19 then what's called a dose reconstructor in
20 training, and their work is reviewed by a
21 senior qualified health physicist. Our
22 contract just requires a health physicist, but

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1 we actually make sure it's the senior people.

2 And this is not, we don't consider the peer
3 review acceptable to be this level of review.

4 This is then in addition to the peer review
5 process, so a senior health physicist reviews
6 their work first and then it goes into peer
7 review. So it's an additional step.

8 Training. The objective three,
9 dose reconstruction, manager identifies all of
10 our training in dose reconstruction. It
11 includes all the NIOSH directives and over 125
12 other documents: OTIBs, TIBs, TBDs, Site
13 Profiles, various procedures. As they also
14 are updated, the training also has us re-
15 view them and train on the latest version of
16 them and to document all that, as well. It
17 also includes a three- or four-day initial
18 dose reconstructor training. We've squished
19 it into three days before and found that
20 that's really hard to do, so we've done it in
21 four days generally.

22 In addition, as things come up, we

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1 have, obviously, periodic staff meetings where
2 we give out information. And as additional
3 issues come up, if it's warranted, we'll have
4 additional training sessions. A good example
5 is when Super S plutonium, we finally got that
6 up and running, that's a relatively complex
7 issue, so a couple of us went around to all
8 the area offices and we had a training session
9 on Super S plutonium.

10 MEMBER MUNN: Scott, with respect
11 to your enumerating the number of documents
12 there that you've dealt with, we've had some
13 problems in the other Subcommittee with
14 respect to how documents are enumerated, what
15 the headings, the numerical headings are that
16 you put on them. Has ORAU been, have we
17 discussed that with ORAU, and are we
18 attempting to work out any glitches that we
19 have with respect to whether this is an ORAUT
20 or an ORAU or an OTIB? You know, we've had
21 some problems with the numbering system --

22 MR. SIEBERT: Well, normally, I

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1 guess the main problem that we've run into
2 before, I believe, is OTIBs and TIBs. That's
3 the main one --

4 MEMBER MUNN: That's one of it.
5 And the other is the number of digits that we
6 have in a numerical document.

7 MR. SIEBERT: Oh, whether it's
8 0001 or 001?

9 MEMBER MUNN: Whether it's 00 or
10 000, yes.

11 MR. SIEBERT: We haven't
12 specifically discussed that issue that I'm
13 aware of. The differences are the ORAU Team,
14 we use four digits, and DCAS historically
15 started with three digits. That's where the
16 inconsistency between the digits came from.
17 Also, the differences between OTIBs and TIBs,
18 when you had an OCAS TIB and an ORAU TIB, we
19 couldn't call them both OTIBs, we couldn't
20 call them both TIBs. That's slowly being
21 changed over as OCAS has been renamed to DCAS.
22 If you'll notice, they're now becoming DTIBs,

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1 because now they're DCAS Technical Information
2 Bulletins.

3 MR. HINNEFELD: We should fix that
4 and just go back to TIB.

5 MEMBER MUNN: Yes, you know, this
6 is why I brought it up because, understanding
7 it's not this Subcommittee's grief but it's
8 one of the things that are a glitch we're
9 going to have to work out, and it sounds to me
10 as though ORAU itself doesn't have any problem
11 with it. It's the combination of the --

12 MR. SIEBERT: It's the
13 inconsistency between us, and we can work on
14 that.

15 MEMBER MUNN: All right. We'll
16 address that in the other Subcommittee. Sorry
17 to insert that, but thank you.

18 MR. SIEBERT: That's fine.
19 Anything you say is on topic, Wanda.

20 MR. FARVER: Scott, one question.
21 How are the DR guides controlled?

22 MR. SIEBERT: The DR guides are

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1 not part of our document control system,
2 because we didn't want them to -- it's a
3 rather inflexible system. As you know, it
4 takes months oftentimes to get a document
5 through our tracking system because it has all
6 the various steps. In order to be a little
7 more nimble with things of dose
8 reconstruction, as we find things out and we
9 determine we have guidance that needs to be
10 issued, we'll use the guidance documents.
11 They're kept on the server, so there's version
12 control on the server. And the official
13 version is the copy that always goes with the
14 dose reconstruction report that's submitted
15 along with it. So although it's not tracked
16 as part of the document control system, a copy
17 of it always goes with the dose reconstruction
18 that it may modify, even if the guidance
19 document wasn't used for that specific dose
20 reconstruction. So that version will always
21 be linked with that dose reconstruction for
22 submittal purposes. And then as, say, the

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1 Technical Basis Document, once that gets
2 updated and includes that information, we'll
3 remove that information from the guidance
4 document.

5 MR. FARVER: But the dose
6 reconstruction does not reference the DR
7 guide?

8 MR. SIEBERT: Correct.

9 MR. FARVER: So there's no way of
10 knowing what information was used in the dose
11 reconstruction if there were modifications to
12 the technical basis guidance? In other words,
13 you could use a DR guide that has all sorts of
14 changes in the Technical Basis Document, and
15 the person reviewing your dose reconstruction
16 would be unaware because --

17 MR. SIEBERT: Well, they'll
18 specifically know where it's coming from.
19 That's true because it's not a controlled, a
20 document-controlled process so we can't
21 reference it.

22 MR. FARVER: They would look at

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1 the Technical Basis Documents and say this is
2 what should be done according to the Technical
3 Basis Document, and the DR would be done
4 differently and --

5 MR. SIEBERT: In which case, then
6 you'd look at the guidance document and say,
7 oh, well, that's where that came from.

8 MR. FARVER: But they wouldn't
9 know which document to look at because it's
10 not referenced in the DR. In other words --

11 MR. SIEBERT: It would be the only
12 guidance document that's submitted with the
13 dose reconstruction.

14 MR. FARVER: That's true.

15 CHAIRMAN GRIFFON: And that's a
16 recent change, by the way, right? I mean,
17 it's in the last three or four years.

18 MR. SIEBERT: Well, yes.

19 CHAIRMAN GRIFFON: Okay, yes.
20 Recent. Relative recent, yes.

21 MR. FARVER: Because if you're
22 controlling the versions, and you would have a

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1 title, you know, version number, it could be
2 very easy to go back and look and see what
3 information was used.

4 MR. SIEBERT: At present, we do
5 not do that. Anything else?

6 CHAIRMAN GRIFFON: And the
7 decision was just that the system was too
8 inflexible. It wouldn't allow --

9 MR. SIEBERT: To move things
10 quickly through the system --

11 CHAIRMAN GRIFFON: -- that
12 modification.

13 MR. SIEBERT: Right. To avoid
14 additional PERs over time.

15 CHAIRMAN GRIFFON: Right.

16 MR. SIEBERT: Or stopping
17 production to get something into the document
18 for, you know, a few months. We'd rather get
19 the answers to the claimants in a timely
20 manner. All right?

21 Product realization. That breaks
22 into data entry, which I know -- and a lot of

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1 this I know is repetitive from what we did
2 last year. Last year was very much a hands-
3 on, here's what we're doing and here's the
4 processes. And I believe those of you who
5 came to this last year saw the data process,
6 data entry process actually being performed,
7 which was good.

8 Our data entry, it's entered and
9 supplied by the sites. We do internal and
10 external and separate spreadsheets just
11 because they're so very different. We have
12 different groups in data entry actually doing
13 those specific data entry functions. And all
14 the data that we have that's entered is 100
15 percent audited. There was an additional,
16 basically, peer review that does a line-by-
17 line comparison for quality purposes. And
18 once it passes that, that's when it gets
19 posted for the dose reconstructors to use.

20 Any questions on that, the data
21 entry portion? Okay.

22 Data and information. This is

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1 everything else. All our known sources of
2 data, the claimant exposure data, work data,
3 Technical Basis Documents, procedures,
4 telephone interviews, approved and validated
5 electronic tools, all that information also is
6 things that we produce in this project under
7 the auspices of the 9001 process.

8 We also have ready access to more
9 experienced dose reconstructors. And we're
10 very collegial on our side of the fence. If
11 somebody doesn't know something, we take it to
12 somebody else and talk to the other dose
13 reconstructors, especially the senior dose
14 reconstructors, as well as the principal
15 internal, external, medical, and AWE
16 dosimetrists. They are all also available for
17 questions. And if we have something that's a
18 higher level that we need to, obviously, we
19 work with our DCAS counterparts to get
20 questions answered as well.

21 CHAIRMAN GRIFFON: Well, I have
22 some broader questions, but just to go back on

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1 the data entry. I'm looking at my little
2 notes I made. I highlighted this sentence
3 that says, "Mistakes are corrected as they are
4 found, and no record of the errors is
5 currently maintained." And I guess when I'm
6 thinking about, you know, ISO 9001, continuous
7 improvement, you know, how do you judge
8 improvement if you're not tracking errors?

9 MR. SIEBERT: Well, you're right.

10 It's not specifically tracked as such on a
11 one-by-one basis. But that's where the rest
12 of the sentence that goes along with it is:
13 peer reviewers are instructed to alert
14 supervision when they've seen consistent kinds
15 of errors, and then the supervisor will take
16 care of any issues up to and including, you
17 know, training, re-training the individual,
18 getting them online with what they're doing if
19 they're making too many mistakes or obviously
20 taking them off the project.

21 CHAIRMAN GRIFFON: Fix the worker.

22 I've got my other hat on now for my other

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1 job, but that sounds a lot like fix the worker
2 instead of fixing the system. If you were
3 tracking this and finding a lot of data entry
4 errors, maybe it would be not necessarily one
5 individual or --

6 MR. SIEBERT: Correct.

7 CHAIRMAN GRIFFON: -- not a
8 disciplinary matter. It's more of a matter
9 of, wait a second, we need to rethink how
10 we're entering the data.

11 MR. SIEBERT: Right. Which, once
12 again, would come under the supervisor. I
13 guess you're right. I only said a portion of
14 it. That's a good point. The supervisor,
15 since there is a supervisor over data entry,
16 they're aware of what's going on with all the
17 portions of it and they would be aware if
18 you're seeing consistent error across
19 different data entry folks, as opposed to just
20 one single one. Good point.

21 MEMBER KOTELCHUCK: But would the
22 supervisor, would the supervisor know if an

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1 individual had made an error if the individual
2 did not report it? I'm worried about a person
3 who is a data entry person who knows they're
4 klutzy and they make mistakes, but they want
5 to keep their job and they don't want to be
6 disciplined, so they just don't report.

7 MR. SIEBERT: Well, there's a peer
8 review who's reviewing their information.
9 It's the peer reviewer who reports them to the
10 supervisor to say, hey, we've got consistent
11 errors.

12 MEMBER KOTELCHUCK: Okay. You
13 have a peer reviewer.

14 MR. SIEBERT: Yes, there's an
15 additional level of review.

16 MEMBER KOTELCHUCK: Okay.

17 MR. SIEBERT: Correct. That would
18 go to the supervisor, and that's when they'd
19 look for something that's a little more
20 systemic.

21 MEMBER KOTELCHUCK: Okay.

22 MEMBER MUNN: Now, a truly

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1 systemic error would be fairly obvious over a
2 relatively short period of time.

3 MR. SIEBERT: Right.

4 MEMBER MUNN: If you're getting
5 the same kind of error over and over again,
6 certainly the same individual overseeing it
7 would be well aware that this is a recurrent
8 event.

9 MR. SIEBERT: An example we have
10 run into in the past is we'd be having people
11 enter, say, whole body count records and a new
12 version of a form pops up into the records
13 that we hadn't seen before, and people start -
14 - maybe somebody tried to enter that data into
15 the old form, as opposed to saying, hey, we've
16 got a problem. We've seen that problem
17 before, and we've come back to it and say, oh,
18 well, we need to update the template to
19 reflect there's an additional form that we
20 need to do. So we have done that as such.

21 MEMBER CLAWSON: But this comes
22 back to what I was talking about a little bit

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1 earlier. We see at the tail-end of our
2 reviews that we do, problems that arise, and
3 then when we bring them forth they say, well,
4 yes, we took care of that earlier, we saw this
5 in the process and we've done something with
6 that. But there's no trackable way back. And
7 coming from the QA program, it's important to
8 be able to see that if you're improving or if
9 you're having more problems. There's got to
10 be somewhat of a tracking system to track any
11 of these issues that they're having over and
12 over again. And I'm just wondering -- and I
13 know your system is cumbersome and so forth,
14 but to be able to actually see any kind of
15 improvement or unimprovement, you've got to
16 track it somehow. This is one of the things
17 that I have problems with is when these come
18 in and I hear, well, yes, we saw that problem,
19 we think that we've got it pretty well taken
20 care of. Myself, I'd like to be able to see
21 how much of a problem it really is and if
22 there's something different that needs to be

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1 done or even the process that was done to
2 correct it. That's kind of what I was hoping
3 we would see a little bit of because it's hard
4 to be able to measure anything if you don't
5 have any data.

6 MR. SIEBERT: Right. And I see
7 what you're saying. And I've made a couple of
8 notes for the data entry manager to discuss
9 that with them and see.

10 MEMBER CLAWSON: And I don't think
11 it's just data entry. I think it's in all
12 processes of your Quality Assurance Program.
13 There should be some way to be able to look at
14 all levels of problems that you have had to be
15 able to see, you know, we've improved with
16 this because it would really be better to be
17 able to come to this group and be able to say,
18 yes, we have seen this from this time period
19 to this time period and we saw that. We
20 implemented this program to correct it, and
21 now it's down to this amount. That's kind of
22 what I was looking at.

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1 MR. SIEBERT: And you'll see some
2 of that further on as we get into peer review,
3 once we get into returns from DCAS, and things
4 like that.

5 MEMBER CLAWSON: Okay.

6 MR. SIEBERT: So are we really
7 done with data entry this time?

8 CHAIRMAN GRIFFON: I think so.

9 MR. SIEBERT: Alright.
10 Additionally, the control of dose
11 reconstruction templates. These are the Word
12 templates that we have that are actually the
13 dose reconstruction reports that all the data
14 is imported from the tools into these reports.
15 And it just provides a consistent quality
16 product. These are all kept on the server.
17 The most recent version of them is on the
18 server. And I'm just looking from a note
19 point of view. Okay, I didn't put it on the
20 screen.

21 If you read over this, I did put
22 an example in here. As I said, we have

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1 periodic staff meetings. One of my group
2 meetings, actually frequently in my group
3 meetings, I will make the statement, "Always
4 go up to the tools folder and get the latest
5 tool and DR draft template. Always, any
6 claims submitted without data tool or template
7 will be returned by the peer reviewer," which,
8 you know, we just keep reminding dose
9 reconstructors to use the latest tool, use the
10 latest template. And now that we're tracking,
11 as you will see in a few minutes, now that
12 we're tracking peer reviewer comments more
13 closely, if that's an issue that we see
14 consistently because people are not using the
15 more recent one, that actually will come up
16 and we'll start to see that.

17 MR. FARVER: And those templates,
18 you import the individual's data into the
19 template, and the templates will populate the
20 table that talks about the energy fractions,
21 correct? That all is populated by the macro
22 or the template?

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1 MR. SIEBERT: Correct. Right.

2 MR. FARVER: Okay. So the dose
3 reconstructor doesn't have to enter that data?

4 MR. SIEBERT: Correct. They have
5 to verify that it's what they actually use,
6 but they don't have to keep going in and
7 entering it over and over and over. And
8 that's getting to the next one, the same thing
9 with software tools. It actually hits the
10 last point there, but I'll hit them all.
11 Well, I'll hit independently and verified and
12 validated in a second, but I wanted to point
13 out, you're right, it ensures consistency with
14 our methodologies because the dose
15 reconstructors aren't rewriting it every time
16 and also efficiency because they're not
17 entering the same data over and over and over.

18 And even early on, when we did do
19 those kind of entries, people have a cut-and-
20 paste that they would normally use for
21 themselves, and they would consistently use
22 that. It may differ between dose

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1 reconstructors, and now I'm talking about, you
2 know, eight years ago before we had these
3 templates. Now it's all pulled in
4 automatically. When we have a wording update,
5 which we don't have that frequently anymore,
6 but when we were first starting out the
7 templates, if we had wording that was being
8 misinterpreted by claimants or was really
9 annoying them, when we wrote it one way and
10 they were taking it another way, that would
11 easily get a consistency that we get that
12 wording changed across the whole process.

13 MR. FARVER: But, for example, say
14 neutron energies. Now, that comes right from
15 the tool.

16 MR. SIEBERT: Correct.

17 MR. FARVER: Okay. So whatever
18 was used for the calculation should be the one
19 that populates the table in the DR report?

20 MR. SIEBERT: Right. Which, more
21 recently, that's what you'll see. When you
22 guys do older dose reconstruction reviews, you

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1 know, you've seen inconsistencies.

2 MR. FARVER: I mean, what time
3 frame are we looking at?

4 MR. SIEBERT: I mean the last
5 three, four, five years probably --

6 MR. FARVER: Okay.

7 MR. SIEBERT: -- would be my
8 guess. And then the additional point that's
9 under software tools, the first one actually,
10 independently verified and validated. We
11 follow our ORAU plan 26 for our verification
12 of our software development, as well as
13 Procedure 94, which is actually our tool
14 verification program that's creating the test
15 plans, doing the tests and validation of all
16 the tools. So those are the two things that
17 if you want to look at the QA/QC and
18 development process for our electronic tools,
19 plan 26 and Procedure 94.

20 MR. FARVER: Okay. Do you
21 actually run test cases through?

22 MR. SIEBERT: Yes. That's part of

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1 --

2 MR. FARVER: And you do hand
3 verifications to make sure those are correct?

4 MR. SIEBERT: Yes, it's all done
5 through the test plan under 94.

6 MR. FARVER: And is that
7 available? I mean, is it somewhere I can get
8 to to read, or is that something you would
9 have to put out?

10 MR. SIEBERT: I can't tell you
11 that off the top of my head.

12 MR. FARVER: Okay.

13 MR. SIEBERT: But I'll put a note
14 down.

15 MR. HINNEFELD: So you're
16 interested in the test plan for the
17 verification of the tool; is that what you're
18 asking?

19 MR. FARVER: Yes, if that's where
20 all that information is contained. Especially
21 how they do the test calculation.

22 CHAIRMAN GRIFFON: Or you want to

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1 see the actual tests that were run, right?

2 MR. FARVER: Well, I guess we'll
3 start with seeing what their plan is.

4 CHAIRMAN GRIFFON: Okay.

5 MR. FARVER: And then maybe later
6 on, because this is going to come up in the
7 Savannah River issues about what are the tools
8 that, some issues with -- you know, we might
9 want to pull that calculation for that version
10 of that tool.

11 CHAIRMAN GRIFFON: Okay.

12 MR. SIEBERT: Okay. Yes, I've got
13 a note for that. And now we're to monitoring
14 and measurement of the product itself, as
15 opposed to the product realization. This is
16 once the dose reconstructor has completed the
17 dose reconstruction. It's submitted to the
18 initial quality control review, and these are
19 things that you saw last year, as well, the
20 action forms that we used, Form 59 for the
21 IQC. It's all out of Procedure 98. They just
22 have a checklist that they walk right through

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1 to the initial QC and do the comparisons out
2 of that, and that's all kept under our records
3 program.

4 Then the peer review includes the
5 peer review feedback form, which this is
6 something that we put in place about two years
7 ago to test it out to see if it would be
8 helpful to have a more consistent feedback
9 form, which we obviously did find that useful.

10 We started tracking it in a database about a
11 year ago, so we have that information now and
12 we're working with that. And that's been
13 somewhat helpful for the dose reconstructor
14 managers to see what types of errors are
15 coming out of peer review.

16 We've got the comments grouped
17 into 14 technical issues categories. That's
18 going to be changing. One of the things I'll
19 mention right now is we are updating our
20 categorization for peer review for DCAS
21 returns and for SC&A comments. We're changing
22 the categorization so it's more consistent

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1 across all of them, so we'll be comparing
2 apples to apples across all three levels of
3 review. That's something we're working on
4 right now and get it in place in the next
5 couple of months because we found, oftentimes,
6 when you have a scientist create a review
7 form, there's suddenly 214 categories that you
8 can categorize, and it's hard to get them
9 consistent. So we're trying to cull that
10 down. Obviously, we don't have that many, but
11 even with 14 it tends to get a little
12 unwieldy. So we're culling that down and
13 making it consistent across, so I think that's
14 going to be very helpful to us. And the dose
15 reconstruction group managers review these and
16 looked for any consistent issues that we
17 issue.

18 MR. FARVER: And the peer review
19 feedback form, is that part of PROC-59?

20 MR. SIEBERT: No. As it stands
21 right now, it is a non-proceduralized issue
22 because we started using it just to test it

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1 out, and we're using it as just to test work
2 product. I have to discuss with Ed what we're
3 planning on doing from a documentation point
4 of view as to using it. As I said, we're
5 making changes to it consistently at the
6 moment.

7 MR. FARVER: So where does the
8 Attachment A to PROC-59 fit in, the peer
9 review checklist?

10 MR. SIEBERT: That's a checklist
11 that's used by the dose reconstructor or the
12 peer reviewer as they're doing their peer
13 review. And then the Form 92 is -- Attachment
14 A is Form 91. Form 92 is the sign-off saying
15 that they completed the peer review, as well.

16 MR. FARVER: So that's the peer
17 review feedback form?

18 MR. SIEBERT: No, that's the --
19 I'll look for the actual specific name. Peer
20 review declaration, which is that's the
21 declaration --

22 MR. FARVER: Okay, I see it.

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1 Attachment B.

2 MR. SIEBERT: Yes.

3 MR. FARVER: Okay. So those two
4 forms are still being used?

5 MR. SIEBERT: Correct.

6 MR. FARVER: And then there's the
7 feedback form, which is separate?

8 MR. SIEBERT: Which is to give the
9 feedback information to the dose reconstructor
10 themselves and track what comments the peer
11 reviewers may have.

12 MR. FARVER: Okay.

13 MEMBER MUNN: And this sounds,
14 from your description, like the kind of
15 tracking system that Brad and David were
16 asking about earlier.

17 MR. SIEBERT: Yes. And that's the
18 kind of thing we're working toward, to develop
19 that more consistently.

20 MEMBER MUNN: Good. Thank you.

21 MR. SIEBERT: Sure.

22 CHAIRMAN GRIFFON: And the peer

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1 review feedback form, as compared to the --
2 I'm looking at the table where you show your
3 trend in error rates.

4 MR. SIEBERT: That is not this.

5 CHAIRMAN GRIFFON: So the peer
6 review feedback form is not broken into the 14
7 areas, or is it?

8 MR. SIEBERT: Yes, it is broken
9 into the 14 areas. What you're thinking of is
10 the DCAS returns --

11 CHAIRMAN GRIFFON: Right.

12 MR. SIEBERT: -- that the
13 technical and other comments that we get back
14 from DCAS that we've been tracking for a much
15 longer time period.

16 CHAIRMAN GRIFFON: Right.

17 MR. SIEBERT: And as I said, we're
18 working to get all these categorizations
19 consistent, so then we can compare the
20 different portions and, you would hope, see,
21 as things move through the system, your error
22 rate would be reduced. Obviously, zero is

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1 your goal, but you would consistently be able
2 to hopefully catch things at the lower system
3 that you wouldn't see at the higher levels.
4 So we're really working on that right now.
5 We're pretty excited about that.

6 The next step after peer review is
7 technical editing and final QC review. Both
8 of those are also out of Procedure 98, and
9 there's forms that go along with those, check-
10 off forms that are kept as records.

11 Then, finally, we get to transmit
12 the draft dose reconstruction report over to
13 NIOSH, and they get to review the reports and
14 sign off on it and basically turn it back over
15 to us for the close-out interview or, if they
16 have comments, they will kick that back to us
17 on a Form 35. And that's the information
18 that's coming out of Procedure 77, how we deal
19 with this information if we get a return from
20 DCAS.

21 CHAIRMAN GRIFFON: Can you go back
22 to that table then, that graph, which is the

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1 DCAS returns, right?

2 MR. SIEBERT: Yes.

3 CHAIRMAN GRIFFON: Is there,
4 within the data, I mean, I know this is a
5 summary graph, do you have the breakout for
6 these? It's different categories, I
7 understand that.

8 MR. SIEBERT: Right.

9 CHAIRMAN GRIFFON: But do you have
10 category breakouts? For example, if there was
11 consistent errors in internal dose, you know,
12 internal dose method used or whatever?

13 MR. SIEBERT: Yes, we have these
14 broken out. I didn't bring any of that, but
15 there's so much, various things. What we
16 found over time and more recently, especially,
17 as I said, with these other things that we're
18 now tracking, categorization was not always
19 consistent. And when you're not consistent
20 with your categorization, the data that's
21 coming out of it isn't always as helpful.

22 So these are the overall error

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1 rate itself. Once we -- it's been helpful,
2 but we're finding that it's probably going to
3 be even more helpful once we have those
4 categories consistent across these three.

5 And an additional step that we're
6 doing right now is we would have a specific
7 person who got these returns from DCAS, and
8 they would enter them into our error rate data
9 base, our comment data base, and make a
10 characterization. They weren't always being
11 as consistent as they could be because there
12 was, once again, a lot of different
13 categorizations. So we're reducing that and,
14 as well, there will be two of us who are doing
15 the categorization. Joel Arana and I will be
16 taking care of that so that we have more
17 consistent characterization. And then the
18 data will be a little bit more useful to us
19 for developing exactly where the issues are.
20 So evolving process.

21 CHAIRMAN GRIFFON: And within that
22 process, is there a breakout of the type of

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1 claim? Like full internal dose, full external
2 dose?

3 MR. SIEBERT: We don't pull that
4 information in right now.

5 CHAIRMAN GRIFFON: Because I know
6 that was a discussion --

7 MR. SIEBERT: We could do --

8 CHAIRMAN GRIFFON: -- in previous
9 meetings that the level of review may depend
10 on -- I mean, I think you were looking at
11 that, right? You were saying that, if you
12 have the cases that were likely to require a
13 full dose reconstruction, then you may want
14 more rigor in your review process, as opposed
15 to an overestimating case. You might not need
16 as much rigor in that review process.

17 MR. HINNEFELD: Typically, it just
18 seems that if the case comes down over 45
19 percent it gets a pretty careful review in
20 that process. You want to make sure that
21 you've done the right thing in that process,
22 as opposed to, you know, I would think people

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1 would look at that more thoroughly than they
2 would if it was 10 percent or something for
3 one that was non-compensable. You look at
4 compensable and make sure they didn't make
5 some gross mistake.

6 CHAIRMAN GRIFFON: Yes. It seems
7 like it would be human nature, but you're not
8 really tracking that.

9 MR. HINNEFELD: I don't really
10 know. Right.

11 CHAIRMAN GRIFFON: Right. Okay.

12 MR. SIEBERT: Now, as I said, it's
13 Procedure 77 on our side where we actually
14 deal with the error tracking and reporting.
15 All the comments are categorized into
16 categories, which makes sense, and it's put in
17 our comment management utility database, and
18 that's where we pull the technical errors.
19 And, actually, everything goes into that
20 database, not just technical errors. Any
21 return that we get from DCAS, it may be a
22 wording issue, it may be professional judgment

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1 differences, it may be a miscommunication.
2 Perhaps our dose reconstruction report wasn't
3 as clear to explain to the DCAS reviewer what
4 we were doing, and they may want a wording
5 change, things like that. Those are all
6 rolled into our return database, not just the
7 technical errors themselves. We also have
8 monthly and quarterly tracking and trending
9 status reports that go to the objective three
10 manager and the group managers, Joel and
11 myself, to review that, which also includes
12 the information all the way down to who the
13 dose reconstructor and who the peer reviewers
14 were so that we can see if there's some sort
15 of consistency and if we see a peer reviewer
16 that's consistently missing things or a dose
17 reconstructor who has this type of error that
18 they're making. We're watching that type of
19 information, as well.

20 And then any time you throw a
21 graph on, you expect everybody's eyes to go
22 directly to it. So there it is, the technical

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1 error rate that we've been tracking since
2 early 2005. As you can see, it's obviously
3 trending down. This does include, as I said,
4 all comments back, and this is the Form 35s
5 from DCAS to ORAU. This includes all
6 comments, not just technical comments.

7 For example, if we had a wording
8 change because an SEC just came out, and we've
9 turned in some claims to DCAS before the SEC
10 wording came out and now we need to re-work
11 the wording to be consistent with the SEC,
12 they will return those to us and we'll make
13 those wording changes. There's no technical
14 error, but we make a wording change. Those
15 are all included here, as well. That's why
16 sometimes you'll see blips upwards. Usually,
17 it's something like an SEC just came out where
18 we had some sort of issue that changed that we
19 may need to change the reports and then maybe
20 a chunk of them that come back for us to
21 address that and then get them back out.

22 And, as I believe, we put one in

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1 the slide right before it. The average
2 technical errors right now, in the six months,
3 right around one to one and a half-percent.
4 Now, that would be the technical errors that
5 DCAS caught something that we needed to change
6 and fix the error and turn it back in.

7 Overall, as you can see, going
8 down, which is just like you say, Brad, when
9 you're tracking it and you can look at it,
10 that's very helpful.

11 MEMBER CLAWSON: Okay. It's also
12 helpful for us to go back and see where we've,
13 how it's been approved, too.

14 MR. SIEBERT: Right. And that is
15 the end of the slides. As I said, that's
16 pretty much just a short overview of the
17 document that we sent out to you, to all of
18 you. So any additional questions? That was
19 relatively quick.

20 MEMBER RICHARDSON: I have a
21 question. This is David Richardson. Can you
22 hear me?

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1 CHAIRMAN GRIFFON: Yes.

2 MEMBER RICHARDSON: One question
3 is so you've got February 12th in the graph --
4 February 2012.

5 MR. SIEBERT: Correct.

6 MEMBER RICHARDSON: And so it made
7 me, I guess a starting question is: the
8 document is not dated. When was this document
9 written?

10 MR. SIEBERT: Oh, the original
11 document? When did --

12 MEMBER RICHARDSON: The document
13 here that you've provided us.

14 MR. SIEBERT: What? Two weeks
15 ago?

16 MEMBER MUNN: This month.

17 MR. SIEBERT: He's talking about
18 the document that was sent out, the
19 explanation as to what this is all based upon.

20 MEMBER RICHARDSON: The ORAU Team
21 dose reconstruction quality assurance/quality
22 control program document.

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1 MR. SIEBERT: Correct. What's the
2 date that that was --

3 MR. CALHOUN: I'm trying to find
4 out when MJ sent --

5 MR. SIEBERT: Sent over.

6 MR. CALHOUN: It was between the
7 last meeting and this one.

8 MR. SIEBERT: We can approximate
9 about a month.

10 CHAIRMAN GRIFFON: So it was just
11 between the last two meetings or between --
12 yes.

13 MR. SIEBERT: Correct.

14 MEMBER RICHARDSON: So we had
15 been, we've been asking for quite a long time
16 now. As you said, I mean, we had a site visit
17 that was over a year ago where we had posed
18 the same sort of questions and asked for the
19 description of the process: what was your in-
20 house documentation for quality assurance?
21 And a lot of it fell under the category of
22 what you're calling monitoring and measurement

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1 of the product, and it was motivated by the
2 independent evaluations that were done through
3 the Board where we were observing errors that
4 seemed to have passed through whatever
5 internal quality control was going on with
6 your organization and also, in many cases,
7 passing through NIOSH's.

8 And then when we were looking at
9 it, we were finding things like data entry
10 problems at a rate of -- if we were to take
11 our data, which we weren't doing large
12 numbers, but at a rate that was perhaps in the
13 double digits for percentages. And so we had
14 wanted to understand what was the etiology of
15 those errors, and we went and visited you and
16 we were given an overview, kind of in broad
17 strokes, but we had asked for documentation.
18 We received some documentation related to
19 positions for people who had different
20 responsibilities, managerial positions, but
21 not a description of an auditing process.

22 We had asked again at the last

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1 meeting, and we were told that we would be
2 provided with a description of what documents
3 you were currently using for the auditing
4 process. And what we've received, it would
5 appear to me, is an undated document which
6 says here's what we can say today, but I
7 wanted to know what was the process in place
8 that was the etiology for all those errors
9 that we saw? What was in place as the Quality
10 Assurance Program? How were you monitoring
11 and measuring the product?

12 So what you've described to me
13 seems to be you're working towards getting
14 into place something which will allow you to
15 track certain classes of errors. But, as you
16 said, the type of graph that you provided is
17 not interpretable at this point because it
18 conflates a number of things: tracking,
19 transitions in SECs. It's so crude as to be
20 very un-interpretable, and it certainly
21 doesn't conform to an internal evaluation of
22 your own quality assurance. It's what NIOSH

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1 catches with their limited resources in terms
2 of errors and returns to you. And when we do
3 it again independently, we catch other errors.

4 But it's still not clear to me what's the
5 process?

6 So if you're saying you're ISO
7 compliant, I would expect there to be some
8 sort of document that says: this is what we
9 say what we do and then some sort of process
10 for saying we're performing to our level of
11 documentation and we're auditing and tracking
12 that. And I've gotten kind of a sense of a
13 number of informal things that you are saying,
14 but I've written in this document there's lots
15 of those things. What's the process for the
16 supervisor recognizing an error in the broad
17 terms? What's the process for them
18 recognizing the performance of an individual
19 who's doing this work? And we've asked now
20 for a very long time for what do you have in
21 place for that, and this was written very
22 recently. But how is this working? You've

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1 been doing this for ten years.

2 MR. HINNEFELD: David, I think
3 maybe, despite your explanation, maybe we
4 don't quite understand what's being asked for.

5 You've said, at one point you said there was
6 a request for -- we find these errors and we
7 want to know the etiology of these errors,
8 meaning why did these errors occur. Now, we
9 got an assignment on that. We're partway
10 along that. That was the most recent, you
11 know, that table of most recent. I don't know
12 where that is now.

13 We looked back at like the five
14 most recently completed cases that we had
15 SC&A's review on at that time. We identified
16 the errors and made an interpretation of
17 those. I don't know. Have those been brought
18 back to the Subcommittee?

19 MEMBER RICHARDSON: I'm sorry. Is
20 this Stu who's answering?

21 MR. HINNEFELD: This is Stu. I'm
22 sorry. Yes.

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1 MEMBER RICHARDSON: Yes. But I
2 guess I'm asking, I'm asking something prior
3 to that, right? ORAU sent those to you, and
4 you recognize them. What's happening
5 internally? That's the place that I -- how
6 are they recognizing when there's a problem?
7 I guess it's as fundamental as that. If you
8 were manufacturing -- I keep going back to
9 kind of the, you know, quality assurance in
10 manufacturing. If you're manufacturing a
11 product and sending it out, how do you make
12 sure that the soles are not falling off your
13 shoes? And there's, you know, there are
14 procedures in place for tracking the quality
15 and the performance of a process.

16 And, you know, I feel like
17 somewhere, starting on page four of this
18 document, there's the monitoring and the
19 measurement of a product. Okay. That's the
20 heading that I was interested in here. I mean
21 me, particularly. I mean, I know other people
22 are interested in kind of tracking of

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1 documents and other things, but as a basic
2 question, kind of an empirical question, how
3 do they know, what sort of review is
4 happening? And I see, you know, there are
5 these checklists, but there's not, there
6 doesn't seem to be a process described here
7 for keeping track, for showing us that this
8 year something is better than last year. I
9 mean, there's this technical error rate, but I
10 find that kind of, you know, as you said,
11 there are lots of issues that make that very,
12 very difficult and not very useful for our
13 purposes.

14 MR. HINNEFELD: So, in other
15 words, besides the peer review feedback where
16 the peer reviewer looks at the product which
17 the dose reconstructor thinks is fine and the
18 peer reviewer makes comments and those
19 comments are then categorized and -- are you
20 interested in what --

21 MEMBER RICHARDSON: So what I
22 understood was, on this graph, from January

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1 '05 until two years prior to today, that was
2 not instituted. There was something else in
3 place. One year ago those peer reviewer
4 comments began to be logged, but they're not
5 categorized in a consistent way yet. And so
6 that's the, what we're saying is we're
7 beginning to be able to have not a blind
8 assessment; but there is, within there, a peer
9 review, not of a sample but of the products
10 going through and some categories that they'll
11 begin to track. That's the quality program.
12 Is that what you're pointing to?

13 MR. HINNEFELD: No, I'm trying to
14 understand the questions you're asking. That
15 was what I was talking about, but there is,
16 essentially, a product inspection with
17 comments noted and categorized and presumably
18 something is done with those. There's an
19 analysis of those to look for commonalities
20 and some common cause sort of thing, so things
21 you can fix or whatever you can fix. But
22 you're looking for common cause and --

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1 MEMBER RICHARDSON: Okay. So when
2 we went a year ago and we asked, there was no
3 tracking. That's been instituted, but there's
4 not yet a procedure in place now for what
5 they're going to do with that yet? Because, I
6 mean, what we were just presented today is
7 saying that this is a new thing, there's not
8 agreement yet on how those categories will be
9 formed, and there's no kind of data that they
10 can show us right now about how that's
11 working.

12 I mean the question -- I'm sorry
13 if I'm not being clear about it. But I'm
14 thinking, you know, about the way that I would
15 track or manage people who do data entry and
16 other complicated tasks for me.

17 MEMBER MUNN: May I try this, even
18 though I'm the last person in the world to try
19 to explain what David means. But I think what
20 he means is he would like to know what happens
21 and when you check it. He would like to know
22 what originally we started with. When you got

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1 a claim and you knew what you were supposed to
2 do with it, who did what and who checked what
3 and who recorded what? I think he wants to
4 know what was done, who did it, and how it was
5 checked throughout the entire process, I
6 think, in the past and what has been done in
7 the interim to improve that and make it more
8 precise. Am I close, David?

9 MEMBER RICHARDSON: Right, yes.
10 And there have been a number of comments along
11 the way that were very much the same.
12 Mistakes are corrected as they are found, and
13 no record is currently maintained. Well, so I
14 would like to know, you know -- I mean, to me,
15 that's surprising in a sense of: how do you
16 know you're doing better?

17 MR. HINNEFELD: Well, if I can
18 offer one thing, as a general sense, I think
19 the key here is to identify where the
20 recording and analysis will be the most
21 beneficial and to perhaps recognize, well,
22 absolutely recognize that every process that

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1 you install for recording and analyzing and
2 evaluating is a cost. And so that cost then
3 subtracts from the number of dose
4 reconstructions we can do, the amount of work
5 we can spend on SECs and Site Profile reviews.

6 But the idea here is to be able to accomplish
7 what we need to do, do what is appropriate and
8 worthwhile here, and I'm not arguing that we
9 shouldn't do it or we shouldn't do more. I
10 think what we've done and what you've
11 described is largely in response to comments
12 from this Subcommittee about it.

13 MEMBER RICHARDSON: But, but, Stu,
14 can I ask you a question? Because you're
15 speaking with a "we," which would sound to be
16 what "we" can do as being encompassing both
17 NIOSH and ORAU.

18 MR. HINNEFELD: I tend to, sure.

19 MEMBER RICHARDSON: And I was
20 working under the model that you were the
21 employer and that they were a subcontractor.

22 MR. HINNEFELD: Yes, and I have a

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1 fixed amount of money to give them. And I have
2 a certain amount of work to accomplish. I
3 have more work to accomplish than I can
4 accomplish in a timely fashion.

5 MEMBER RICHARDSON: Can I ask you,
6 do you, do they work on a per-hour basis or do
7 they have or do you have a contract in which
8 there is some expectation of deliverables?

9 MR. HINNEFELD: Well, they are not
10 paid for deliverables. There is an
11 expectation of deliverables. It's conveyed to
12 them in their award fee for their contract,
13 but they are not paid for deliverables. They
14 are a cost-reimbursable contract.

15 MEMBER RICHARDSON: So right now
16 the way their contract is written, there's
17 not, they're not expected to take some of the
18 money that you give them and be doing some of
19 this tracking of mistakes?

20 MR. HINNEFELD: Yes, they are, and
21 they are doing some. Are they doing --

22 (Simultaneous speakers.)

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1 MEMBER RICHARDSON: -- are
2 corrected as they are found, and no record is
3 maintained.

4 MR. HINNEFELD: Whether they're
5 doing as much as they should or not is an open
6 question, and we will accept, you know, we are
7 certainly interested in the Board's advice on
8 that. The fact of the matter, though, is that
9 we have worked -- "we," meaning we at ORAU,
10 have worked at improving this process, in, you
11 know, quite a large part, because of advice of
12 this Subcommittee. And we're continuing to do
13 that, so Scott is describing an evolutionary
14 process that doesn't necessarily move as fast
15 as any of us would like.

16 MEMBER MUNN: And the operative
17 word and what Stu said earlier is probably
18 appropriate. The word "appropriate" really
19 comes into play because one has to meet some
20 medium ground between laboratory statistics
21 and industrial production. You have to hit in
22 there somewhere. As he pointed out, cost is a

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1 factor, and there's nothing that we can do to
2 get around that. But by the same token, we're
3 under extreme pressure from all sources to
4 improve not only the rate of completion but
5 also the quality of what's turned out. So you
6 have to find an appropriate measure, and I
7 suspect that every Member of not only the
8 Subcommittee but the individuals who touch
9 these claims probably have a different
10 assessment of what is appropriate, depending
11 upon your philosophy regarding outcome.

12 DR. MAURO: This is John.

13 CHAIRMAN GRIFFON: Hold on, John.

14 DR. MAURO: Okay.

15 MEMBER KOTELCHUCK: If you want to
16 do what Dave Richardson is suggesting, that is
17 to keep a total record of all mistakes that
18 have been found and corrected, is it possible
19 for you to say how much of a fiscal and
20 resource burden that would be? Implicitly, it
21 must be large, or I assume you would have done
22 it.

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1 MR. SIEBERT: That's not something
2 I specifically can address.

3 MEMBER KOTELCHUCK: Okay.

4 MR. SIEBERT: But you're right.
5 It's not insignificant.

6 MEMBER KOTELCHUCK: Yes. I
7 wondered whatever suggestions have been made
8 in the past have been made and have been acted
9 upon as best as you could do it, balancing
10 these. Probably you're not able to afford, in
11 different senses of that, doing a total system
12 change, but I was impressed that in the data
13 entry you said, well, of course, most folks do
14 double data entry and then compare them. But
15 that's resource-intensive. That's enormously
16 resource-intensive. But I wondered if you
17 could experiment by beginning to do X percent,
18 X being a number less than two digits, to do
19 double data entry and compare. And,
20 internally, you could keep a very good record
21 of that, and that would provide something
22 better than the current system but not

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1 changing the entire system at this point and
2 perhaps could identify things that would help
3 move you in a direction toward keeping more
4 records. I wondered if that's something that
5 might be feasible. It's a thought, and I
6 obviously am new, so I don't know that much
7 about it.

8 MR. SIEBERT: No, a fresh
9 perspective is always good. We are always
10 willing and happy to do whatever DCAS asks us
11 to do.

12 MR. HINNEFELD: Yes, this is Stu.
13 ORAU will do what we ask them to do. Should
14 I take it as the Board's advice or the
15 Subcommittee's advice that we investigate -- I
16 mean, there are some things we could do. I
17 think, for the purposes of the discussion and
18 the Subcommittee's interest, it behooves us to
19 work with our contractor management, and Scott
20 is not really the contractor management I need
21 to work with, to see what can we do to provide
22 some feedback, you know, to make some

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1 judgments about what would we be talking about
2 in that context or in some of these other
3 contexts, sort of a broad scale error
4 tracking.

5 You know, I go back to the old
6 days when people would flow-chart a work
7 process, and at certain points in the work
8 process there are things you can do to check
9 and see if things are done right at that
10 point, maybe at every step of the process but
11 certainly at some of them. And you can do
12 that and you can say, okay, here are the
13 potential things we could do to measure and
14 record and keep track of and analyze progress
15 at these steps. You know, that effort in
16 itself is going to take some time and some
17 money for our contractor to do that. So I
18 suspect that we will not get what I'm thinking
19 of but maybe some other pieces because there
20 are people who are far more familiar with the
21 process than I, you know, the people who do
22 it. Scott, who is far more familiar with the

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1 process than I am, could say, well, here's
2 some places where it might make sense and we
3 could do something like that, or we could ask
4 them to do something like that, and say where
5 are the places where it would make sense to
6 have a system like this? And, also, what do
7 you see as the work burden for doing these
8 systems at these places for record, you know,
9 measure, record, feedback, and analyze on a
10 regular basis how things are going? What do
11 you see as the work burden to do that? We can
12 come up with that. We've asked them to do
13 cost analyses before for other purposes, so I
14 think they would give us their best shot. All
15 these things, of course, are a little fuzzy
16 because different things, people don't
17 necessarily do things at the same rate you
18 think they're going to, and the cost here is
19 going to be time, you know, manpower. But we
20 can give it a shot. We'll ask our contractor
21 to -

22 CHAIRMAN GRIFFON: Wanda. And

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1 then John on the phone, I know you've got a
2 question.

3 MEMBER MUNN: I have a yes-but
4 here, and my yes-but is: how low, how complete
5 do you think you're going to get this
6 information? It's never going to be fully
7 complete. And as Scott said, you can always
8 improve, but is that necessary to be our
9 primary goal when we're looking at these as
10 overseers? I can tell you from personal
11 experience, even though the graph that we're
12 looking at here is only a snapshot of a part
13 of the cases that were involved, nevertheless,
14 I can tell you that, from an industrial
15 standpoint, most manufacturers would be
16 extremely happy with the level of technical
17 error rate that's being seen there.

18 Now, I don't know yet, sitting
19 here, whether this low level of error rate is
20 being seen across the board with the other
21 types of claims that we haven't covered by
22 this graph. But if the other error rate is

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1 anywhere near approaching this, then it
2 becomes a real question of not just fiscal but
3 also a people power issue and whether the
4 effort, the time that is necessary -- it's all
5 about time -- whether the time that is
6 necessary to reduce the error rate below the
7 one to one and a half percent, if that is, in
8 fact, the error rate that we're seeing. Is
9 that really where we want to devote our time
10 and our interest?

11 You know, it's desirable if we can
12 achieve 100 percent but not necessarily
13 reasonable to do so. And we, I think, need to
14 be concerned not only with what we're, by
15 extension, asking ORAU to do but what we're
16 also asking the folks at DCAS to even look at
17 to pursue.

18 So the question that I would lay
19 before us is are we not at a point where it
20 would be judicious of us to suggest that we,
21 at our next meeting, have an opportunity to
22 see what data ORAU has available with respect

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1 to the error rate on the other types of claims
2 that we have not seen here? They're just
3 setting up now to do that with their new
4 system of parsing 14 --

5 MR. SIEBERT: Wanda, can I ask you
6 a question?

7 MEMBER MUNN: Yes.

8 MR. SIEBERT: When you say the
9 other types of claims, are you talking about
10 the other levels of the process --

11 MEMBER MUNN: Yes.

12 MR. SIEBERT: -- the peer review
13 and --

14 MEMBER MUNN: Yes, I am.

15 MR. SIEBERT: Okay.

16 MEMBER MUNN: Yes, sir, I am.

17 MR. SIEBERT: I just wanted to
18 make sure I understood.

19 MEMBER MUNN: If we see that error
20 rate, that low error rate, and the drop in
21 error rate -- of course, we're not asking to
22 go back and look at the drop, are we? But if

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1 we're seeing this error rate consistent across
2 the types of claims that they're going to be
3 looking at, do we not want to wait to see what
4 that -- if that's a similar low rate before we
5 ask folks to go out and start --

6 MEMBER RICHARDSON: So, Wanda, I
7 appreciate these comments because the way that
8 you're thinking about this is, objectively, we
9 are presented with data and we can feel
10 reassured because there's been a logical
11 collection of information, a clear
12 presentation of it, and that gives us the
13 basis for feeling like the resources have been
14 put into the right places with regards to
15 quality control and quality assurance. And
16 that was, that's the whole background of this
17 was --

18 MEMBER MUNN: Are we going --

19 MEMBER RICHARDSON: -- how was
20 that information being collected, and we went
21 there and we asked for it, and now we've been
22 presented with a chart which shows us

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1 something. And I guess my only question is:
2 are they collecting the information that we
3 need to feel like we understand the kind of
4 level of errors? Because, when we walked into
5 that meeting a year ago, I said right now the
6 only basis I have for understanding the error
7 rate is that we had done, the DR Subcommittee
8 had gone through, what, a hundred, two hundred
9 dose reconstructions and found errors on the
10 range of, I don't know, seven percent, ten
11 percent, where there were kind of data entry
12 problems. At least that was my impression at
13 the time, and I said if my impression based on
14 that small sample is correct, then the error
15 rate is relatively high. It's not one
16 percent. So right now I'm trying to reconcile
17 two conflicting pieces of information in my
18 head, one that comes from a historical
19 evaluation and another one which comes from a
20 histogram with a smoothed line fitted over it.
21 But, you know, the more
22 fundamental question is: it can't just be up

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1 to this small Subcommittee to be doing this
2 audit process on all those different steps
3 that happen within ORAU. I was imagining,
4 expecting that they had a procedure in place
5 for the collection and ongoing monitoring of
6 that information that they looked at in-house,
7 as well. And this memo is describing, I
8 think, that, in some detail. It's not kind of
9 the way I would do it, I guess.

10 Perhaps NIOSH is satisfied with
11 how that's being done. It's surprising to me,
12 from a managerial perspective, that there's
13 not more kind of ongoing surveillance or
14 auditing of different places where problems
15 may arise and when they impose an
16 intervention, like a new spreadsheet, tracking
17 errors to see whether that's propagated some
18 sort of unexpected problem.

19 But, yes, I agree with you. If
20 this histogram, if we take it at face value
21 and we believe the smooth line is one percent
22 and it's not the bars over the prior three

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1 months, which have an error of more like four
2 percent, and we think that one out of 20 dose
3 reconstructions, it's acceptable that they
4 have technical errors and we don't think that
5 any further effort should be put, then that's
6 all good news.

7 MR. SIEBERT: But just a
8 clarification that these are not technical
9 errors. These are all the returns from DCAS
10 to us, no matter the type of return it was.

11 MEMBER RICHARDSON: I'm just
12 repeating the title of the graph.

13 MR. SIEBERT: Okay.

14 MEMBER RICHARDSON: And I agree
15 there's lots of problems with the histogram,
16 which make it very difficult to interpret. I
17 guess it was a hypothetical. If we believed
18 that these bars represented the true error
19 rate in the process, then maybe we would just
20 want to not discuss this any further. But I'm
21 skeptical of that.

22 MEMBER MUNN: Yes, I guess the

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1 question that raises in my mind is the
2 question of how can we present this
3 information so that it is more meaningful to
4 us, David. That's the question that raises
5 for me, and the only one really.

6 MEMBER RICHARDSON: Yes. Well,
7 the first thing, I mean, for me, the first
8 thing was, we asked the question: is there
9 documentation on the QA/QC process and the
10 auditing? And I was under the impression that
11 there was an auditing process in place and
12 that the documents that we would get would
13 have historical dates assigned to them, that
14 here was the auditing process which was in
15 place and maybe, you know, with appendices
16 that showed how auditing processes had
17 changed. What we have is a, you know, is a de
18 novo memo describing here's the various ways
19 in which we are looking at quality. But it's
20 still not, to me, doesn't fall within what I
21 would expect as a procedure which was put in
22 place for managing a very, very large,

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1 complicated, you know, effort, where there's
2 lots of places where errors could occur and
3 this is how we're tracking and monitoring them
4 because we're, you know, involved in something
5 important and expensive.

6 MEMBER MUNN: Yes. I'm back to
7 what I think your original question was: what,
8 specifically, steps did you do in your
9 process, where was it checked, and what's the
10 result?

11 MEMBER RICHARDSON: Yes.

12 CHAIRMAN GRIFFON: John Mauro?

13 DR. MAURO: Yes.

14 CHAIRMAN GRIFFON: You had a
15 question or comment.

16 DR. MAURO: I do have a comment,
17 and it's a complement, I would say, to what
18 was being discussed. The discussion we're
19 having right now is sort of a ISO 9000/9001
20 process to build bureaucracy layers of checks
21 and scorecard, as if we're in a manufacturing
22 process. I'm going to say, certainly, there's

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1 great value to doing that and applying that
2 way of checks and what is it that you will
3 check and track and what metrics will be kept
4 to see trends. There's value to that. But I
5 think we've got a root cause situation
6 regarding errors where, in fact, such a
7 process may exacerbate that.

8 We have just reviewed a case. I
9 have the number. It's a Hanford case. I have
10 the author. And it is, by far, the best
11 documented DR case that -- well, I'd look at
12 all them but many of them. What I'm getting
13 at is every step in the process was the
14 rationale was disclosed by the author, the
15 starting point. When I think of getting to
16 the root cause, it starts with the person
17 responsible for the DR. If that person takes
18 personal responsibility and ownership, not a
19 filing a procedure but certainly looking at
20 the procedure and then making judgments, the
21 degree to which what aspect of the procedure,
22 because that person is always given

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1 discretion, and that person must always be
2 given discretion, just the way in which you
3 would not want to take away discretion away
4 from a surgeon. That person should always
5 have discretion, and the procedures, the Site
6 Profiles, et cetera, should never be so
7 prescriptive that you take away that
8 discretion from the dose reconstructor.

9 The only thing I would recommend
10 is that every dose reconstruction that's done
11 by your folks be done and documented the way
12 this young lady -- I'm not going to name names
13 on the phone. I certainly will be glad to
14 tell you the name and the number of the case.

15 If you were to take a look at that and see
16 exactly how that person documented every
17 decision that was made in marching through
18 this complex process, along with the rationale
19 for picking what she picked, I think that
20 would go a long way to improving quality and
21 not only improving quality, because it would
22 be a self-assessment of the person. The

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1 person will always be asking himself, I'm
2 picking this number and here's why. When you
3 do that, you catch your own errors. And when
4 you do that, you may decide not to follow the
5 protocol and you have a reason for it.

6 What's going to happen then is
7 you're going to get a better dose
8 reconstruction that will have fewer errors,
9 you know, quality errors. Not only that,
10 you're going to allow that person to continue
11 having discretion. And then when the QA
12 audits begin, it's all going to be there in
13 front of the auditor. And by the way, and the
14 reason I'm saying this, we're the last step in
15 that process when we get the DR to review. I
16 can tell you this: this one stood out because
17 it gave us everything we needed to quickly
18 determine whether prudent decisions were made
19 and whether or not this was a quality product,
20 and we were able to do it quickly and there
21 was no ambiguity because everything was
22 explained.

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1 I say that certainly build your
2 process for metrics, for tracking quality,
3 like an ISO 9000 would. But I would say, more
4 importantly, if you could ask everyone to
5 prepare the DR analysis in accordance with
6 this one particular case that I have in front
7 of me, it will go a long way to solving
8 quality problems.

9 CHAIRMAN GRIFFON: And, John, just
10 to weigh into this conversation, if I can take
11 a step with yours, the personal responsibility
12 angle, if I'm doing a dose reconstruction and
13 I document, you know, you don't follow the
14 protocol, as you described it. But as long as
15 you document it, it's okay. So if that
16 happens on 1,000 cases out of 5,000, as long
17 as I'm documenting it it's okay. And we're
18 not tracking it, so nobody ever switches the
19 protocol. You just have everybody going
20 around the protocol. Is that what you see
21 happening here?

22 DR. MAURO: No, I'm saying that --

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1 CHAIRMAN GRIFFON: Is that the
2 best way forward? I don't know.

3 DR. MAURO: I'm saying that I
4 don't want to be -- I think the protocol is a
5 starting point for ensuring consistency and
6 quality. But, meanwhile, we're not talking
7 about people on an assembly line. We're
8 talking about people with Ph.D.s who have been
9 asked to look at some very difficult
10 questions, each one are unique, and a degree
11 to which -- just like the American Medical
12 Association puts out protocols. But in the
13 end, these professionals, I think they follow
14 the protocol, they should follow the protocol,
15 unless they feel otherwise. And, by the way,
16 the protocol is not all that prescriptive
17 either, not always. I mean, room has to be
18 given for discretion. And within the protocol
19 itself, there is discretion, choose this
20 versus this under these circumstances and
21 these circumstances. So there's always
22 judgments on the part of the DR performer as

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1 to what are the circumstances that apply to
2 this situation so, as a result of that, I'm
3 picking this and I'm not picking that. And
4 that --

5 CHAIRMAN GRIFFON: Oh, yes. We
6 may be talking past each other a little bit, I
7 mean, if it's a flexible protocol, then you
8 wouldn't really be documenting something that
9 you're violating the protocol. Right, right.
10 You're following your personal judgment.

11 DR. MAURO: Right, yes. But I'm
12 saying that you're in within your protocol and
13 you make a choice and you justify it. So
14 that's why I say what I had to say is really a
15 complement. I'm saying that there are aspects
16 to quality that we're not talking about right
17 now. We're talking about ways, after the
18 fact, to catch mistakes, track them. I guess
19 all I'm really adding is, certainly, that
20 needs to be done, but I think it's -- the
21 reason I bring it up is only because we ran
22 across this one case that was a knockout. And

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1 it's sort of like, oh, my goodness, we've been
2 waiting for this for eight years.

3 MEMBER RICHARDSON: Yes. Well, I
4 appreciate that, but, you know, you started
5 off by saying are there clearly-defined
6 metrics and are they, you know, and are those
7 metrics that are going to define certain
8 aspects of quality being tracked and are they
9 trackable? And I agree. At some point,
10 there's going to be a lot of nuance to this,
11 but, you know, Dave's question was if there's
12 not, for example, line double entry of the raw
13 information, is there a possibility of some
14 random entry of a sub-sample? And that's how
15 I've been thinking about it, also. And what
16 the one piece of information that we had that
17 sort of looked like that were these dose
18 reconstructions, but they're not a random
19 sample. They're over-sampled on a number of
20 different attributes, but they were suggesting
21 that there was some problem of data entry as
22 being a fundamental issue.

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1 Now, NIOSH has recently instituted
2 a very small blind dose reconstruction, but
3 that's going to be -- you'll have to remind
4 me. Is it one percent? Two percent?

5 MEMBER MUNN: I thought we said
6 two originally but --

7 MR. HINNEFELD: Just a couple a
8 week.

9 CHAIRMAN GRIFFON: Yes, a couple a
10 week.

11 MEMBER RICHARDSON: A couple of
12 week. So, again, we have external
13 organizations which are doing, you know,
14 samples. One of them is quasi-random and one
15 of them not random at all but on the order of,
16 you know, looking at one percent samples or
17 very, very small samples. So that's the one
18 kind of set of data points that we have, and I
19 was wondering if there are internal metrics
20 for quality and whether those are being
21 tracked and how they're being derived. And
22 that's, you know, I mean, these are --

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1 CHAIRMAN GRIFFON: Yes. And I
2 guess that --

3 MEMBER RICHARDSON: I mean, I'm
4 just struggling with what are the metrics for
5 quality.

6 CHAIRMAN GRIFFON: And I think --
7 let me just one second. I think Scott alluded
8 to, I mean, you talked about this DR tracking
9 database, tracking and reporting. So you have
10 an internal under PROC-77, right?

11 MR. SIEBERT: Right.

12 CHAIRMAN GRIFFON: Error tracking.
13 And there may be this question of the
14 categorization being different at different
15 levels. I mean, I don't know if you've been
16 doing this all along, but maybe now you're
17 doing more of the analysis. Okay, this comes
18 from there, but the sub-level of this is what
19 I'm interested in because I agree this doesn't
20 tell me much. But if you got some more
21 granularity and found out that -- I mean, I
22 think there's several levels in this. I mean,

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1 one is are you weighting the errors, you know,
2 are there significant errors versus minor
3 errors? I think that might be important. Are
4 you finding a large degree of errors are
5 falling in one category, in one of your
6 categories? I think that's the kind of stuff
7 that might come out of this that then you --
8 because I think one thing that I'm not sure is
9 happening. I mean, I think you're making some
10 efforts, but a lot of it is sort of just the
11 feeling of where you think, well, we can
12 improve by doing this. I don't know that
13 you're necessarily using these metrics to
14 guide your feedback loop to say, geez, well,
15 we can't track everything, as Wanda would say,
16 right?

17 MEMBER MUNN: We can't.

18 CHAIRMAN GRIFFON: However, we're
19 finding that we're getting a lot of errors in
20 this one category, and maybe we need to pay
21 attention to that in the original DR process
22 and in our review process. Maybe we need to

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1 tighten up something there. So then you're
2 being cost-effective in the way you're using
3 your money, but you're finding it from the
4 data.

5 And with this general trend, I
6 don't think you really know where to, you
7 know, how do we get there, how do we improve?

8 I think you've made some changes that you
9 knew, just from maybe staff feedback or
10 whatever, that if we had, you know, template
11 workbooks all the time and made sure people
12 were using the one from the server all the
13 time, it's intuitively obvious that you're
14 going to narrow down some of those mistakes.
15 But I don't think -- have you used this
16 performance, these metrics in any way to guide
17 some of those decisions? I don't think you've
18 gotten there yet, not necessarily.

19 MR. SIEBERT: Probably not to that
20 granularity at the moment.

21 CHAIRMAN GRIFFON: I mean, that's
22 where I'm saying it might be useful to see

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1 that sub-level, what comes out of the database
2 on those categories. That might be helpful in
3 guiding you guys internally but also in giving
4 us a sense of what you're really looking at.
5 David, I cut you off --

6 MEMBER KOTELCHUCK: No, you didn't
7 cut me off. What I had an impression was that
8 this suggestion about the double key entry was
9 that some of that is being done by NIOSH now,
10 right? You're getting feedback, and then
11 you're having trouble because they have
12 different categories than you have, right?
13 The categories don't overlap. And it seemed
14 to me if you were to do that double key
15 internally, some of it, particularly on that
16 entry, that that would relieve them of a
17 burden, on one hand; and on the other hand,
18 you wouldn't have any problems with internal
19 categorization because you have your
20 categories, for better or worse, whether
21 they're identical or not. And I do think it
22 could lead you to seeing where, as Stu said,

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1 to lead you to suggest where you might put
2 some things in place.

3 So I do think it might be helpful
4 as a way to move forward or to think about
5 what you might be able to do in that respect.

6 That would help you move forward without
7 doing double key entry for everything, which
8 you can't do.

9 MR. SIEBERT: And I believe that's
10 what Stu was saying.

11 MEMBER KOTELCHUCK: Yes. But I'm
12 saying that this will help relieve, eventually
13 help relieve NIOSH. NIOSH people are probably
14 checking your data entry, right? I assume.
15 That's not your --

16 MR. CALHOUN: We don't double key.
17 We don't double key or key in anything from
18 raw. When our DRs -- or our health physicists
19 review a DR, all of the documents are
20 available to us and we can look and see what,
21 for example, what dose was reported by the
22 Savannah River Site and what was used in the

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1 dose reconstruction.

2 MEMBER KOTELCHUCK: Yes.

3 CHAIRMAN GRIFFON: On your blind
4 reviews are you re-keying data? No. Even
5 then you're not. I mean, this, to me, is a
6 good example because, okay, double entry data,
7 maybe that's a good idea. And I brought up
8 earlier the error tracking. I know we've had,
9 and David is probably right, seven, ten
10 percent QA/QC errors through our first hundred
11 or two hundred cases. I don't know that we've
12 had ten percent data entry errors. I mean, I
13 think it was all kind of QA/QC --

14 MR. FARVER: I only remember maybe
15 a couple.

16 CHAIRMAN GRIFFON: At any rate, if
17 there was just a couple, so here we're talking
18 about maybe doing some double key entry and
19 seeing if that improves things. I'm saying I
20 wish we had a baseline. And then if you were
21 tracking these errors all along, you can come
22 back to this committee and say, here's our

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1 data and we've shown, you know, 0.1 percent,
2 because we do 100 percent auditing of our data
3 entry, and we're finding very few errors in
4 that process. But you don't really have those
5 numbers, so now you're kind of guessing, well,
6 maybe we should do some -- and I don't know
7 that there's an objective basis to do that. I
8 mean, I wish I knew. I wish I could say. I
9 don't think we've found -- we've had a couple
10 of the data entry errors.

11 MR. FARVER: And I think even
12 maybe one or so of those have been kind of
13 trying to interpret numbers from hands-on
14 records.

15 CHAIRMAN GRIFFON: Right. And
16 some even surprised us that it went through
17 the multiple peer reviews without being
18 caught. That was more of that process. But,
19 you know, to go to a double key entry, I think
20 I would want to know what's our track record
21 with this? We're doing 100 percent audit on
22 all the keying in, and if you had a program

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1 that showed, geez, we're catching very few
2 errors, it's in the less than one percent, you
3 know. Then there's no need to do a double-
4 key.

5 MR. FARVER: Exactly.

6 CHAIRMAN GRIFFON: Right. But I
7 guess that gets back to the -- and then going
8 back to those other 14 categories the same
9 way, you know. There's no need to try to
10 improve something if the error rates are so
11 low in these areas. Something may flush out
12 as being worth more investment. That's my
13 point, I guess.

14 MR. FARVER: One of the errors we
15 do see, and I'm not even going to say how
16 often but I'm sure you remember this, is where
17 a dose per year is omitted, okay? And we've
18 talked about this in the past, and sometimes
19 it's when they combine the IREP files with the
20 internal and external. It's been a cut-and-
21 paste error in the past. But, anyway, there
22 comes a time when a certain year is omitted.

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1 Now, I think they already have a
2 mechanism in place that should catch that, and
3 it's been in place in their procedure since
4 2005. It's the peer review checklist. I'm
5 looking at the first item, and it says proton
6 dose. IREP value matches DR report. Now, if
7 you would check that, you would say there's a
8 difference, and then you would go on and find
9 the difference. So I don't know why we keep
10 finding that error or that type of error.

11 CHAIRMAN GRIFFON: And then,
12 internally, I would think if that was being
13 tracked and it kept coming up on internally
14 with ORAU, the supervisors would come back and
15 say: why is this continuing to happen?

16 MR. FARVER: I mean, if that's
17 done on one of the cases we reviewed, then we
18 wouldn't find an error.

19 CHAIRMAN GRIFFON: Right.

20 MR. FARVER: So I don't
21 understand. And there's a whole checklist. I
22 think it's about 12 pages long, making sure

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1 they've got -- were all bioassay samples
2 considered and do you have the right energies
3 to write those correction factors?

4 CHAIRMAN GRIFFON: Right, right.

5 MR. FARVER: And someone is
6 supposed to go through and check all this. So
7 I'm not sure why we're finding these things.

8 MR. KATZ: Is the checklist a
9 database? Is there a database for the
10 checklist?

11 MR. SIEBERT: No. The checklist
12 is not a signed and tracked document. It's a
13 user guide to help the peer reviewers.

14 MR. KATZ: Okay. So they don't
15 enter what errors --

16 CHAIRMAN GRIFFON: They don't do
17 it online like --

18 MR. KATZ: Right. They don't do
19 it -- I mean, it would be nice because they'd
20 have all the data right there for all that.

21 MR. FARVER: But still, I mean, if
22 we find a case that has an omitted dose, we

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1 should be able to go back to this peer review
2 checklist and see if someone actually did what
3 they said they did.

4 CHAIRMAN GRIFFON: Right.

5 MEMBER RICHARDSON: Yes. So I'd
6 consider an omitted dose part of this key
7 punch error. Are you not?

8 MR. FARVER: No, this is on the
9 part of the dose reconstructor and not the key
10 puncher. The dose reconstructor is just going
11 to load a file containing the dosimetry
12 information that's already been key-punched
13 and load that into a workbook.

14 MEMBER RICHARDSON: I see. Looking
15 back through, you know, the reason I think
16 it's, in my view, justifiable that we're
17 having this long of a discussion about it is
18 this was one of the things that we were tasked
19 with doing out of the 10-year review.

20 CHAIRMAN GRIFFON: Oh, yes,
21 definitely.

22 MEMBER RICHARDSON: And there was

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1 discussion about looking at the more recent
2 dose reconstructions. At the time, it was
3 from the 12th set. We took the five most
4 recent cases. We looked at them for errors,
5 and there was still QA/QC errors in those.
6 And the question was what's in place as a
7 program to catch those types of errors
8 because, as we're going through these, many of
9 the early findings were generated from QA/QC
10 issues. So, I mean, we can go back and talk
11 about them, but they're not trivial. I mean,
12 they're still, as you said, I don't think
13 there's a benchmark for understanding what the
14 level is and whether it's falling over time or
15 not.

16 CHAIRMAN GRIFFON: Yes. And maybe
17 there is, at least in 2005. I'm not sure.

18 Let me make a chair decision here.

19 Can we take a 15-minute break and then come
20 back and follow up on this, like what are our
21 next steps? So this is a working break.
22 While we're taking the break, think of where

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1 we can go on this item and clear your head and
2 maybe visit the little boys' or girls' room,
3 okay? 15 minutes. Thanks.

4 (Whereupon, the above-entitled
5 matter went off the record at 10:22 a.m. and
6 resumed at 10:39 a.m.)

7 MR. KATZ: Folks on the phone,
8 we're re-assembled.

9 CHAIRMAN GRIFFON: All right.
10 Who's got the answer?

11 MEMBER MUNN: We were in mid-
12 thought.

13 CHAIRMAN GRIFFON: In mid-thought.

14 MR. KATZ: Let me check. Do we have
15 Dave? David, are you back with us? David
16 Richardson, are you back on the line?

17 CHAIRMAN GRIFFON: We're not
18 muted, are we?

19 MR. KATZ: No.

20 MEMBER MUNN: Maybe it was Dave's
21 thought that we left.

22 MR. KATZ: John Stiver, you're

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1 there, right?

2 MR. STIVER: I'm here.

3 MR. KATZ: Okay. I just wanted to
4 make certain.

5 MR. STIVER: I was on mute.

6 MR. KATZ: Okay. Is that you,
7 David? Have you rejoined us?

8 CHAIRMAN GRIFFON: It could have
9 been John going back on --

10 MR. KATZ: John going on mute,
11 yes. Well, anyway --

12 CHAIRMAN GRIFFON: Yes, well, we
13 can start. I'm sure David will join us soon.

14 Yes, I guess I was just trying to think of,
15 you know, next steps, where we can go with
16 this on the Subcommittee level. And a couple
17 of questions or thoughts I had was, one was, I
18 think, and I think this came up earlier, maybe
19 from a comment David made, but the question of
20 what's been in place over time. I think it
21 might be useful to have that laid out. And
22 maybe it's a very short document, but it would

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1 be useful for me to see what's been in place
2 over time.

3 It seems like, you know, based on
4 Scott's presentation, a lot has changed and a
5 lot of it is from feedback from the Board,
6 from this Subcommittee, whatever. I'm not
7 saying that that's a bad thing, but it would
8 be useful to see how that's changed over time
9 and when.

10 I'm still a little confused, and
11 it's more me not understanding all the
12 different layers than, you know, that it's not
13 in place. But I'm still a little confused by
14 what has been started two years ago with these
15 feedback that you talked about the peer review
16 feedback form -- I'm forgetting all the names
17 -- as opposed to the, it looks like this graph
18 goes back to '05, so you're collecting some
19 sort of data from '05 --

20 MR. SIEBERT: '05. That's the
21 Form 35s for all comments coming back from
22 DCAS. But not inside our house, that were

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1 coming to our house from --

2 CHAIRMAN GRIFFON: Okay. And
3 then, internally, the database that you were
4 talking about that you and one other
5 individual have to go through the categories,
6 what does that have in it?

7 MR. SIEBERT: That's the peer
8 review. Well, first of all, it's the
9 categorization of the comments that come back
10 from DCAS. That's one portion of it, so, yes,
11 that graph. And then another portion of it is
12 bringing together the peer review feedback
13 forms, which is internal to us --

14 CHAIRMAN GRIFFON: That's internal
15 to ORAU. And where does that data start?

16 MR. SIEBERT: We started tracking
17 in the database one year ago.

18 CHAIRMAN GRIFFON: One year.
19 Okay.

20 MR. SIEBERT: We started off
21 testing out using the feedback forms two years
22 ago. And once we kind of beat that into

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1 submission, something that worked, we started
2 tracking it about a year ago.

3 CHAIRMAN GRIFFON: And those
4 internal forms are documented in what
5 procedure or --

6 MR. SIEBERT: That process isn't
7 proceduralized at the moment.

8 CHAIRMAN GRIFFON: It's not
9 proceduralized. Okay. Alright. So I guess
10 that's what I'd be -- and then prior to that,
11 what was in place internally within ORAU prior
12 to 2010?

13 MR. HINNEFELD: So we're
14 interested in hearing a description --

15 CHAIRMAN GRIFFON: Yes, just a
16 description.

17 MR. HINNEFELD: -- for future that
18 this is what has been in place --

19 CHAIRMAN GRIFFON: Right.

20 MR. HINNEFELD: -- from this
21 point, and at this point this was instituted -

22 -

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1 CHAIRMAN GRIFFON: And here's what
2 we did in -- yes, yes, yes, just like some
3 benchmarks. And I think internally and from
4 NIOSH and DCAS side. I think that would be
5 useful just for us to get a sense.

6 MR. SIEBERT: So that be as simple
7 as each of the processes that are explained in
8 this overall when each of them came online and
9 if there's been changes over time to each of
10 them?

11 MEMBER KOTELCHUCK: No, I think, I
12 thought the simplest would be to take our
13 technical error rate, and can you categorize
14 in some fashion, I mean according to --

15 CHAIRMAN GRIFFON: Yes.

16 MEMBER KOTELCHUCK: -- but
17 categorize in some fashion what they are.
18 Well, you're saying according to these five,
19 according to these five categories?

20 MR. SIEBERT: I think, mostly,
21 what we've been discussing is the monitoring
22 and measurement.

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1 MEMBER KOTELCHUCK: Right.

2 MR. SIEBERT: And if you read
3 through that section, there are various things
4 in place: Procedure 98, Form 59, various forms
5 that we've done for QA, and then the peer
6 review feedback and so on and so forth. It
7 seemed to me that you were kind of looking for
8 when did each of these come into being.

9 CHAIRMAN GRIFFON: Come into
10 being, and when were you tracking them, too?

11 MEMBER KOTELCHUCK: But how many,
12 I mean there were a certain number of errors
13 in November '05, and the question is what
14 categories did they fall into?

15 CHAIRMAN GRIFFON: Well, Dave,
16 you're getting to my second question, which
17 the second question is: can we see this
18 database that you have with all this stuff?
19 Because I'd be interested in the sub-category.

20 Or, at the very least, can you break out the
21 sub-categories for us and can we look at
22 what's happened from both the DCAS return

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1 information you have and even your one year of
2 data from internally, you know, by sub-
3 category? Is it telling us anything? It
4 would be nice for us to see just how the
5 categories, you know, how that breakdown
6 looks, as opposed to just the overall error
7 rate.

8 So I have two questions I was
9 looking at. One, just from a procedures
10 standpoint, what's evolved over time? And in
11 each one of those categories, I think it's
12 important to note like some of these peer
13 review forms may have been in place from the
14 very beginning, but it might be important to
15 note like I don't know how many revisions
16 you've done on the peer review forms over
17 time, and then when, if ever, did those things
18 start to be tracked? You know what I mean?
19 Not tracked.

20 MR. KATZ: It's not tracked today.
21 That's what he explained earlier.

22 CHAIRMAN GRIFFON: Those

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1 individual lines --

2 MR. KATZ: Right. The form, none
3 of that is tracked.

4 CHAIRMAN GRIFFON: So how do you
5 get these categories -- these are just based
6 on your peer review comments that come back.
7 You categorize those based on your 14 or so
8 categories, right?

9 MR. SIEBERT: We're talking about
10 two different things here.

11 CHAIRMAN GRIFFON: Yes.

12 MR. SIEBERT: What Ted is talking
13 about is the peer review checklist, which is
14 Form 91. That is not a tracked document.
15 It's for guidance for the dose reconstructors
16 for simplification that goes along with the
17 peer review procedure.

18 CHAIRMAN GRIFFON: Okay.

19 MR. SIEBERT: What you're talking
20 about is the peer review feedback forms, which
21 we started using a couple of years ago,
22 started tracking a year ago, and that's what

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1 you're looking for?

2 CHAIRMAN GRIFFON: Well, yes, I
3 was asking just about all those things, when
4 they were in place, whether they're tracked,
5 not tracked, whatever. I think just to sort
6 it out for, I mean, for those of us who have
7 been in the program for a while, especially
8 those that are just coming onto the Board.

9 MR. SIEBERT: Right.

10 CHAIRMAN GRIFFON: Right, right.
11 I think that would be just a useful overview.
12 And then the second question is more the
13 specifics in the database that you have.

14 MR. SIEBERT: What we're seeing.

15 CHAIRMAN GRIFFON: Yes, what the
16 breakout is. Not just the overall error rate,
17 but on the sub-level, yes. I think that would
18 be useful for me for next steps. I don't know
19 if -- David, are you on the phone? He didn't
20 get back on yet.

21 MEMBER RICHARDSON: I'm on the
22 phone. I was on mute.

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1 CHAIRMAN GRIFFON: Oh, I'm sorry.
2 Do you have any -- I mean, I think, have you
3 been on for a few minutes? I don't know how
4 long --

5 MEMBER RICHARDSON: Yes, I've been
6 on since the start.

7 CHAIRMAN GRIFFON: Okay. So I
8 don't know if you had anything to add to sort
9 of steps forward.

10 MEMBER RICHARDSON: No, I think
11 that makes sense for us to clarify what's
12 happened. And then I think we, you know,
13 aside from that, I think all we can do is move
14 forward and report on understanding -- you
15 know, at some point, we need to summarize some
16 sort of conclusions about what we think the
17 state of the situation is with regards to the
18 QA/QC issues that were raised in the 10-year
19 report. Is that, are we supposed to be
20 following up on that, or would that be --

21 CHAIRMAN GRIFFON: Yes, yes. Yes,
22 I don't know exactly what we -- I'm trying to

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1 think what we found in that report or in the
2 10-year report what specifically they
3 recommended that we look at.

4 MR. HINNEFELD: The recommendation
5 -- this is Stu Hinnefeld. The recommendation,
6 essentially, was to continue to work with the
7 Subcommittee on reviewing QA/QC issues
8 associated with dose reconstruction. So
9 there's no specific charge to the
10 Subcommittee, and the Subcommittee is left to
11 its own devices and ingenuity on where to go
12 with it.

13 MR. KATZ: I think what David is
14 just raising is occasionally you need to
15 report back to the full Board on your progress
16 on this element.

17 CHAIRMAN GRIFFON: Right, right.
18 Okay. So I have two actions, unless others
19 have things to add. One is just to clarify
20 the QA/QC procedures in place over time,
21 right, as we just discussed, Scott. And
22 indicate whether these elements were tracked

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1 or not tracked in some sort of data base
2 process. And then, you know, I think that's
3 sort of the overall picture.

4 And then the second item I have
5 was, looking at your graph on the technical
6 error rate, the sort of granularity out of
7 that, the subcategories, can you provide some
8 information? Either access to that database
9 that we can sort of look at it or at least,
10 you know, report back on, you know, maybe by
11 subcategory, what your findings were as far as
12 the error rates from the DCAS return side and
13 also from your year worth of data that you
14 have internally. Is that a massive undertaking
15 or -- there's some hesitation there.

16 MR. HINNEFELD: I don't know. I
17 would not think so. I think access to
18 database might be a little problematic. But a
19 report by category, I don't know what the
20 issue might be there. I think Scott is
21 reluctant to commit his organization.

22 CHAIRMAN GRIFFON: Yes, okay.

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1 MR. HINNEFELD: But we'll see what
2 we can work out on that. We talked about a
3 couple of other things, too, or at least we
4 talked about one other thing I know of, which
5 was some sort of test for double key entry.
6 In other words, could we take a random
7 sampling? And I'm trying to understand how
8 this is going to work. As I understand how
9 this would work, is we would take a sampling
10 of cases after we had gone through our process
11 of data entry and inspection or whatever we do
12 now, you know, where we go back over it and a
13 data entry person says, okay, I am gone. You
14 take then a random sampling of those. You
15 would have another key entry person then do
16 the key entry and to determine -- and then,
17 once you've done that, if there are
18 differences, you've got to decide which one
19 was entered incorrectly. And if, in fact, the
20 current process ends up with errors, then you
21 would have to make some consideration about:
22 is it sufficient? You know, is what we're

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1 doing sufficient? Is the error rate -- this
2 inspection isn't really working well.

3 That is a thing that could be
4 designed and done. I don't know that it could
5 be done real quickly, but it's something that
6 could be designed and done. Go ahead.

7 MEMBER KOTELCHUCK: No, I'm sorry.
8 I'm interrupting you.

9 MR. HINNEFELD: I was going to
10 move on to something else.

11 MEMBER KOTELCHUCK: Okay. Well,
12 then I was actually thinking that if we got
13 the report back basically clarifying the data
14 that has already been presented, and the graph
15 that's already been presented, then, having
16 seen that, I would be ready to think about,
17 well, how might you do double keying? But I
18 don't, my feeling is it doesn't need to be
19 done now. In fact, if we're asking for a
20 further report, a little more detail, a little
21 more detail on what we have, then we can help
22 think through. And I suggest that we propose

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1 a second time with a little more concreteness.

2 MR. HINNEFELD: So nothing on that

3 --

4 CHAIRMAN GRIFFON: I was going to
5 say -- that's why I didn't bring it up. I was
6 going to say hold off on that, but I wanted to
7 hear from others.

8 MEMBER KOTELCHUCK: I agree, I
9 agree.

10 CHAIRMAN GRIFFON: But I think
11 let's see this first and -- yes.

12 MR. HINNEFELD: Okay. And then
13 similarly then on what I was talking about,
14 you know, where you would flowchart the work
15 process, decide on places where inspection,
16 you know, inspecting product, interim product,
17 reporting results, and then analysis,
18 something like that is premature, as well,
19 other than maybe some preliminary thinking
20 about the question. You know, I think we
21 should go off and think about the question
22 anyway.

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1 CHAIRMAN GRIFFON: We should think
2 about it, yes.

3 MR. HINNEFELD: But you're not
4 really expecting any kind of product now on
5 that coming out of here today?

6 CHAIRMAN GRIFFON: No, I wasn't.
7 No, no.

8 MR. HINNEFELD: Okay. All right.

9 CHAIRMAN GRIFFON: I think that's
10 -- Doug, do you have anything to add on that?

11 MR. FARVER: No, no, I'm just
12 going to keep these things in mind as we go
13 through. We're going to talk about the
14 findings. When we come across a QA concern or
15 something, just be thinking about where in the
16 process, you know, should that have been
17 caught or should it not have been caught or
18 how can you fix it?

19 CHAIRMAN GRIFFON: Right.

20 MEMBER KOTELCHUCK: The one other
21 thing on the proposal that you made a moment
22 ago, I wanted to ask Scott, if you're not now

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1 tracking your own, the peer review document
2 that you, I don't know if I'm using the right
3 term, but the one that you instituted a year
4 ago, you're not now tracking it --

5 CHAIRMAN GRIFFON: You just
6 started tracking it, right?

7 MEMBER KOTELCHUCK: I'm sorry.
8 You are tracking it, but you have not
9 categorized anything yet in that?

10 MR. SIEBERT: We had initial
11 categorizations, and what we're doing is we're
12 updating the categories to be more useful at
13 the moment.

14 MEMBER KOTELCHUCK: Okay. The
15 question is, Is what we're asking reasonably
16 doable? What we're asking about the DRR
17 technical error rate sounds like it is
18 eminently doable because you basically have
19 the elements for this graph.

20 The other one for your peer
21 review, the one you're doing, the peer review
22 document, is that something that you think

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1 reasonably could be done now, or if you
2 haven't actually decided on the categorization
3 so maybe you want to hold off?

4 MR. SIEBERT: I think it might be
5 premature to put that out. But --

6 MEMBER KOTELCHUCK: Okay. I just
7 wanted to --

8 MR. SIEBERT: Because I think we
9 are still working through that to make sure
10 it's more useful to us and obviously to you
11 guys, as well.

12 CHAIRMAN GRIFFON: And are you
13 working on the, I mean the categories for
14 DCAS returns, are you trying to --

15 MR. SIEBERT: Our plan is to make
16 all those categories the same.

17 CHAIRMAN GRIFFON: Right, right,
18 right. Okay.

19 MR. SIEBERT: So that we will be
20 then consistent, and we can say, in peer
21 review, in the number of report typo errors
22 that we saw, we saw this many in the peer

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1 review feedback, we saw this many from the
2 DCAS returns, and we saw this many from the
3 SC&A reviews. So we're trying to line those
4 three up as much as we can so that we can do
5 those comparisons at the different levels.

6 MR. CALHOUN: I got a question.
7 This is Grady. Just the graph, I thought that
8 those were just gross numbers. I mean --

9 MR. SIEBERT: Those are very
10 gross. Yes, those are the --

11 MR. CALHOUN: Okay. So in terms
12 of going back and looking, for 2005, for
13 example, to categorize the numbers, that's not
14 something that database are readily available,
15 is it?

16 MR. SIEBERT: I don't believe all
17 of it probably is. I'd have to go back and
18 look at how far back I have --

19 MR. CALHOUN: I think those
20 numbers are based on the fact that we get in
21 something as simple as DOL had the cancer.
22 We'll send them back a form that says revise

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1 the dose reconstruction because DOL has
2 cancer. It could also be that I don't agree
3 with their internal dose calculations. But I
4 didn't think those were categorized. They
5 certainly aren't from our standpoint when we
6 send them to you.

7 MR. SIEBERT: We've been
8 categorizing them --

9 MR. CALHOUN: I know you do for
10 DCAS --

11 MR. SIEBERT: Yes, I'd have to
12 look at how long the comment --

13 MR. CALHOUN: So I'm just thinking
14 that may not be something that you can go sort
15 and --

16 MR. SIEBERT: Right. It may be
17 more time-intensive.

18 MR. CALHOUN: Right.

19 CHAIRMAN GRIFFON: Maybe just, at
20 the very least, an update on that, if it's not
21 -- right, right. Make some movement on that.

22 MR. HINNEFELD: I think if there's

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1 some period of time since 2005 when those
2 categories are entered in the database or
3 whatever is entered in terms of categories or
4 database, I think we just come out with that.

5 And there may be certain categories that are
6 sort of un-interpretable because they include
7 a number of different kinds of returns.

8 CHAIRMAN GRIFFON: Right. Yes, so
9 those two items. Do the best on that second
10 one. Okay. Anything else on that? We're
11 through agenda item number two. Ted's only
12 got 15 on the list for us.

13 MR. KATZ: We'll be saving them for
14 tomorrow.

15 CHAIRMAN GRIFFON: Why don't I just
16 get back to the agenda?

17 So we have, oh, the cost and
18 benefits of possible changes in dose
19 reconstruction efficiency processes. So this
20 came out of the 10-year review, also. And the
21 notion was, just to summarize, one of the
22 things was that, you know, should you sort of

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1 do a best estimate for all cases or are we
2 really gaining that much cost savings in doing
3 some of these efficiency methods, so that was,
4 I think, the fundamental question.

5 And we got a response, a verbal
6 response. I think maybe I pushed for this a
7 little bit, but, you know, we want sort of in
8 writing, but it was the justification that it
9 really, that it wasn't cost-effective to do
10 best estimates across the board. NIOSH gave
11 us this document, and I'll let whoever is
12 going to summarize that --

13 MR. CALHOUN: I think, basically,
14 what the findings of this were are that doing
15 a full-blown dose reconstruction is not cost-
16 beneficial for us. There are some things we
17 can look at doing, and none of them are free.

18 All of them will cost us additional resources
19 and money. And some of the things that we are
20 looking at doing that may not have a huge
21 impact are not overestimating, for example, X-
22 rays, using the actual X-ray records rather

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1 than using default numbers. That will lower
2 the dose in most cases.

3 And another one was missed dose,
4 using the actual number of zeros recorded
5 rather than the maximizing periodicity of
6 badge exchange. Those are the two that would
7 be most cost-beneficial for us.

8 Obviously, we wouldn't look at
9 doing a best estimate for an underestimate,
10 you know, because that's silly. Once we get
11 the case to 50 percent compensability, I don't
12 think anybody thinks we should waste anymore
13 time in trying to add more dose to that.

14 So that was the basic findings of
15 what ORAU put together.

16 MEMBER MUNN: That sounded logical
17 to me.

18 CHAIRMAN GRIFFON: And I guess
19 there's -- this may be in your response
20 somewhere. I'm trying to catch up with this
21 document. I mean, part of the way this came
22 about was the sort of questions of claimants

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1 coming to public meetings or probably calling
2 you and saying, why did my PoC go down when I
3 got another cancer?

4 So, I mean, we also kicked around
5 some things like, you know, did it make sense
6 for certain cancers, like skin cancers where
7 you're likely to have multiple cancer
8 situations, just to bite the bullet and do
9 best estimate right from the beginning? I
10 don't know.

11 MR. CALHOUN: That was in there,
12 too. Yes, yes.

13 CHAIRMAN GRIFFON: I'm sure you
14 addressed that.

15 MR. CALHOUN: That's the bottom,
16 it's the bottom of page three and the very
17 last thing there.

18 CHAIRMAN GRIFFON: Alright.

19 MR. CALHOUN: That was a
20 significant cost increase there, because 60
21 percent of the claims have one or more skin
22 cancers, 44 percent of those.

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1 MEMBER MUNN: That's a surprising
2 statistic to me.

3 CHAIRMAN GRIFFON: Yes. I mean,
4 do others have -- David, do you have any
5 comments on this while I'm trying to read?
6 You know, one question to me is this is sort
7 of like the intangible cost to the program,
8 you know. I think one thing we're concerned
9 with is that you maintain credibility. And if
10 certain people, petitioners or representatives
11 of petitioners, start to view that this is,
12 you know, a black box and they're playing
13 games with the numbers, then how do you weigh
14 the cost of that? I think that's a very, a
15 very big concern to us and I'm sure to you,
16 you know.

17 MR. HINNEFELD: It's a legitimate
18 issue, and it's something that I was really
19 interested in this analysis when we asked
20 about it because I face those questions all
21 the time. And in public comment we hear it at
22 times, and we hear it more often than public

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1 comment. But, you know, again, it came down,
2 when you see the cost analysis and what it
3 would cost to do away with overestimates, we
4 try to explain in an overestimating dose
5 reconstruction, I mean it starts right off
6 after the legalese, it starts right off saying
7 that this was an overestimating dose
8 reconstruction and, if the facts of the case
9 change, the numbers could very well go down.
10 It starts right off with that.

11 CHAIRMAN GRIFFON: And I think we
12 made those comments and you guys listened.

13 MR. CALHOUN: Yes, we changed
14 that. We did.

15 CHAIRMAN GRIFFON: You changed the
16 language in the reports. So that was a good -

17 -

18 MR. HINNEFELD: When we rework a
19 dose reconstruction, we explain what's been
20 reworked and what has changed and why has it
21 changed, an overestimate before that was
22 removed from this one. That's all explained

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1 in a dose reconstruction. We try to explain
2 it as much as we can, you know, as a
3 replacement for the fact that it just seems
4 too expensive to do best estimates all the
5 time. I mean, we, just in the past year or
6 two, we have gotten on top of our backlog of
7 dose reconstruction, and we now are doing them
8 pretty much as they come in.

9 But you all know that we have
10 multiple SEC discussions that are extending on
11 and on and Site Profile reviews which are
12 languishing because all of our time is being
13 spent on dose reconstruction and SEC. So it's
14 not a matter of we don't want to do this.
15 It's a matter of balancing the things we need
16 to accomplish.

17 CHAIRMAN GRIFFON: No, I
18 appreciate NIOSH. I mean, the main reason I
19 pushed for this was that it was brought up in
20 the 10-year review. And I thought rather than
21 just have some --

22 MR. HINNEFELD: Instead of my gut

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1 feel.

2 CHAIRMAN GRIFFON: Yes, discussion
3 on the record. I thought, this way, you have
4 some documentation and, you know, I mean, I'm
5 pretty persuaded. I'm very persuaded that,
6 you know, we really can't go to the all best
7 estimate cases.

8 MR. HINNEFELD: To the extent that
9 we can accomplish some of the things that
10 Grady mentioned, the partial things we might
11 be able to do, I think we shouldn't forget
12 about those, keep our eye on those and report
13 back to the Subcommittee when we accomplished
14 things along that line.

15 CHAIRMAN GRIFFON: Yes.

16 MR. HINNEFELD: But in terms of a
17 broad-scale change, we just don't seem to have
18 time to do that.

19 MEMBER KOTELCHUCK: With the
20 limited knowledge of attending the Santa Fe
21 meeting and seeing correspondence that we're
22 getting from claimants and knowing how much

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1 people know about radiation, I've been
2 teaching both to graduate students, not
3 speaking to general public, I really don't
4 believe that, no matter how much this is
5 explained, that people who are claimants or
6 other people of the general public will
7 understand this. And I feel very bad about
8 that, because I just feel like there's so much
9 technical background to that, both in the
10 science and statistics, that it does seem like
11 a loss in terms of convincing a more general
12 public or claimants that this is fair, but I
13 do think it is fair and we do our best and you
14 do your best. But I shrug my shoulders
15 because I feel that this is -- it's difficult.

16 It's difficult, and I don't know what to do
17 about it because I realize we can't do all
18 best estimates.

19 CHAIRMAN GRIFFON: And, I mean, I
20 think NIOSH has definitely improved on the
21 communicating the claimants' sides.

22 MR. HINNEFELD: That's the thing

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1 we're really trying to do.

2 CHAIRMAN GRIFFON: And that's what
3 we've asked for as a Board. And I think the
4 other thing that we can say as a Board is
5 that, you know, we've continued to look at
6 this over the years and, basically, you know,
7 we can also explain that this is, you know,
8 keep putting it out there that this is how
9 they're doing it and it's scientifically
10 valid. It's not that they're playing games
11 with the numbers. I think that's important to
12 hear from an independent Board saying it,
13 also.

14 MEMBER KOTELCHUCK: Just thinking
15 if there were some written communication. I
16 mean, it is clearly written to the claimants,
17 right? And it's explained, and I hear that.
18 But if there were, perhaps, a written document
19 for the public, if you will, so that claimants
20 would be able to put their hands on this early
21 on in the process and hopefully take it back
22 to technical and professional people that they

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1 know or that they've heard of. Suppose the
2 claimants from a union, there is a health and
3 safety officer somewhere at some level in that
4 union, maybe at the national level, who has
5 the background to understand that this is a
6 fair process and explain, if you will, or go
7 to the local public health school and talk to
8 somebody who is knowledgeable in the science
9 and statistics. I don't know if there is
10 something like that out there, but if there
11 isn't it might be useful, beyond the
12 individual explanation in each case, which is
13 done.

14 CHAIRMAN GRIFFON: I mean, you
15 have done your outreach meetings.

16 MR. HINNEFELD: Well, I was
17 thinking of one thing. We send, when a
18 claimant's case is first referred to this, we
19 send them a pretty significant package of
20 information about what to expect, but I don't
21 know that it's addressed in there. I'd have
22 to go check.

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1 So that's one thing. And then the
2 other logical place, I don't know if people
3 check our website or look at it, but there's
4 an FAQ section on our website. We can put it
5 there. We have written informational documents
6 on our website, like you can pull one up on
7 dose reconstruction and pull one up on SECs
8 and things like that. I don't know if -- the
9 dose reconstruction gets into overestimating
10 it. What are the ramifications, which is
11 really what we're talking about. The
12 ramifications of using an overestimating
13 approach is that we have this illogical, we
14 can have this illogical result later on when a
15 person gets a second cancer and their PoC goes
16 down. So that's a ramification of using an
17 overestimate the first time. So I don't know
18 that we've written anything specifically.

19 MEMBER KOTELCHUCK: I was
20 thinking, by writing something specific about
21 that issue, it's one issue in which people
22 will feel that we're being unfair when we're

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1 not or when we're being fair and that putting
2 out something -- if it's in FAQs, there are a
3 million questions to ask. And packets, people
4 don't, of course, not just that they don't
5 always read packets, but they don't read the
6 packet when they first submit, which is when
7 they get the packet.

8 Once the process moves along, then
9 they begin to get into it and think about
10 detailed questions. It might be something
11 that will bring a specific document, a
12 specific piece of material for outreach might
13 bring extra attention to this. It's certainly
14 the one area that I've seen so far that
15 claimants think we're being unfair when I
16 feel, professionally, we are being fair.

17 It's a thought. Again, I don't
18 want to mandate it, but maybe we can adapt
19 what we've done.

20 CHAIRMAN GRIFFON: Yes.

21 MR. SIEBERT: And just to go back
22 for Stu, I just wanted to let you know I did

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1 pull up the FAQ, and it's one of the most
2 significant questions that is on the NIOSH
3 website FAQ. Why did my previous claim have a
4 higher dose than my present one with the
5 rework and additional cancer? So it is an --
6 I hear what you're saying. I just wanted to,
7 for Stu's sake, to qualify that it is there
8 and I'm looking at it.

9 MR. HINNEFELD: Which heading is
10 it under? Dose reconstruction?

11 MR. SIEBERT: Dose reconstruction.
12 And then if you scroll down, it's the only
13 question that's, like, a paragraph long.

14 MEMBER MUNN: Anybody who's
15 looking for it can find it.

16 MR. FARVER: It would be helpful
17 to have something like that in a brochure form
18 to have available at Board meetings when the
19 public is there?

20 MEMBER KOTELCHUCK: Yes, that's
21 kind of what I'm --

22 CHAIRMAN GRIFFON: That's sort of

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1 what he --

2 MR. FARVER: Because the
3 information already exists.

4 MEMBER MUNN: It exists in many
5 places.

6 MEMBER KOTELCHUCK: It does, it
7 does. I don't doubt it.

8 MEMBER MUNN: And putting it in
9 their packet, it's always questionable how
10 much of a packet people are supposed to --

11 CHAIRMAN GRIFFON: Yes.

12 MEMBER MUNN: -- when you get a
13 stack of material. Perhaps other human beings
14 are less fragile than I. I have a tendency to
15 --

16 MEMBER KOTELCHUCK: Maybe this is
17 something to bring to the outreach committee.
18 This is an outreach issue, isn't it?

19 MEMBER MUNN: Outreach, yes, very
20 familiar with it.

21 CHAIRMAN GRIFFON: I guess this is
22 another one that, you know, when we think,

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1 from our last discussion, on metrics, you
2 know, is this something that NIOSH is getting
3 as many questions now or questions/concerns as
4 you were early, before you changed the
5 language? You know, is it still -- I mean, we
6 hear that the people that come to the Board
7 meetings, of course, they're energized.
8 They're angry or, you know, they take the time
9 to do that. But from your volume of calls or
10 whatever --

11 MR. CALHOUN: Just based on my
12 experience, I can't say that it's gone down
13 any. And I go to a lot of the meetings.

14 MR. SIEBERT: From a meeting point
15 of view, I believe that's true. From a
16 claimant communication --

17 CHAIRMAN GRIFFON: That's what I'm
18 asking about.

19 MR. SIEBERT: -- point of view, on
20 closeout interviews. I've asked Pat Kraps, our
21 claimant interviewer manager, before and it
22 did drop significantly once we started putting

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1 that information in. And we actually rarely
2 get that question anymore in closeout
3 interviews.

4 CHAIRMAN GRIFFON: That's a good
5 sign. That's my point is maybe you're
6 offering fixes that are already fixed, so it
7 would be good to know if there was a trend,
8 and if it's only happening a few times --

9 MR. CALHOUN: Well, that's one
10 thing to remember. I didn't even think about
11 the close-out interviews, but every time a
12 dose reconstruction is completed we speak with
13 the claimants and talk to them about it. Do
14 you have any concerns with how this was done?

15 So I forgot all about that. That's
16 important.

CHAIRMAN GRIFFON: That's
17 good. That's good to know.

18 MEMBER KOTELCHUCK: Much of what
19 I'm reporting is thinking of the Board meeting
20 the last spring, but you've been to many.

21 CHAIRMAN GRIFFON: And we're going
22 to always get those at the Board meeting but--

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1 MEMBER MUNN: But very much fewer,
2 very much fewer.

3 CHAIRMAN GRIFFON: It's hard for
4 us to sort of look at trends from our public
5 meetings.

6 MEMBER MUNN: They've clearly gone
7 down.

8 CHAIRMAN GRIFFON: But from the
9 phone calls, they're going down, that's a good
10 thing.

11 MEMBER MUNN: Yes.

12 MEMBER KOTELCHUCK: Okay, good.

13 CHAIRMAN GRIFFON: Alright. So I
14 think, otherwise, you know, are there any
15 other comments on the cost analysis itself? I
16 think people think we're kind of in the
17 position that the Subcommittee is accepting
18 that you can't do best estimates across the
19 board. That's what I'm hearing.

20 MEMBER MUNN: Absolutely.

21 MEMBER RICHARDSON: Can I ask one
22 question?

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1 CHAIRMAN GRIFFON: Sure.

2 MEMBER RICHARDSON: Stu had
3 suggested, and I definitely agree with that.
4 But, nonetheless, coming out of the 10-year
5 review, rather than the suggestion being to do
6 them across the board, there was a suggestion
7 for ways of stepping towards doing fewer of
8 them, with perhaps the idea that the goal is -
9 - you know, you would still have that as an
10 objective. If possible, you would like to
11 avoid the situation of complicating
12 communication with the claimants. And there
13 was some thought about ways of perhaps doing
14 this, using the overestimating approach less.

15 Is that still kind of just being thought
16 about, or are there steps being taken for
17 implementing that for certain types of claims?

18 MR. CALHOUN: This is Grady. We
19 actually are getting ready to implement that
20 for X-rays and missed dose. We just, I'm in
21 the process of finding out now what the actual
22 impacts are. Right now, there will be an

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1 impact, but I need to know, other than just a
2 percent, what kind of real impacts I might see
3 on SECs, TBDs, everything in dose
4 reconstruction. But these two seemed the most
5 doable, the least impactful. So we'll
6 definitely have something for you by the next
7 meeting, and I'm hoping we can implement at
8 least one of those before that, at least start
9 down that road.

10 MEMBER RICHARDSON: Okay, great.
11 Yes, I mean, I guess I like the thought that
12 even trying to whittle away that.

13 CHAIRMAN GRIFFON: Yes. No, good
14 point. Good one. Good point, David. And I
15 guess we'll just continue, you know, you can
16 just give us updates on progress on that
17 front. Overall, I think this document is
18 responsive, and the committee agrees with it.

19 MR. KATZ: So they could report
20 out to the Board on this item?

21 CHAIRMAN GRIFFON: Yes. Okay.
22 Next item. Geez, we're moving at lightning

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1 speed today. Oh, yes, DCAS report on plans
2 for evaluating claimant-favorability. We're
3 still on the 10-year --

4 MR. CALHOUN: Well, basically,
5 what Jim told me is it's kind of ongoing, so
6 that's part of his 10-year review. That's
7 what he reported to me.

8 MR. HINNEFELD: Yes, this is Stu.
9 The recommendation out of, this came out of
10 the quality of science section of the 10-year
11 review, and it was saying, well, look, you
12 make all these statements about how you're
13 claimant-favorable and stuff, but you just
14 kind of say it's claimant-favorable. Have you
15 ever tried to really quantify in some method,
16 you know, how favorable are you talking about?

17 Jim's view, his plan on this, and
18 I didn't have a better plan, was to pick up
19 the Health Physics journal that we published a
20 few years ago. It was a special journal in
21 Health Physics about our program, a special
22 issue. And there were a series of articles

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1 in there that describe aspects, the claimant-
2 favorability aspect of dose reconstruction and
3 essentially use that as a framework to start,
4 you know, looking at, without a favorable
5 approach, you know, what would you do if you
6 were doing a central estimate or some other
7 central estimate or what are the other
8 possibilities that you would choose besides
9 this approach?

10 So I think that's where he intends
11 to go. Now, having a plan and a structure is
12 a long way from being done. So this may not
13 be something we'll have done in the near
14 future, but that is what he's arrived at.

15 If there are other suggestions,
16 because I know Jim was casting about a little
17 bit before, you know, doing this. If there
18 are other suggestions, we'd certainly
19 entertain those, or, perhaps, a better time is
20 when you've seen something out of that. It
21 might be a better time to have suggestions.
22 That's where we came from on our response to

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1 that recommendation.

2 CHAIRMAN GRIFFON: I think that's
3 where we were at the last meeting was, you
4 know, we'd like to see something and then
5 maybe react to it. But I don't know. Are
6 there comments right now or --

7 MEMBER MUNN: No, it's one of
8 these things that I find incredibly difficult,
9 almost impossible to actually quantify. I
10 don't know how you could quantify it, other
11 than taking a claim that has been completed
12 and doing it in a more meticulous, more
13 careful way than was done to show that if
14 other guidelines other than those used in this
15 particular program were used, that this person
16 would not have received favorable numbers. I
17 don't know any other way to do that, and that
18 doesn't seem feasible at all. So it seems to
19 me that Jim's plan is as good as any. It can
20 at least address the question.

21 CHAIRMAN GRIFFON: Yes.

22 MEMBER MUNN: Addressing the

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1 question in a very thorough manner would be
2 almost impossible to quantify. I don't know
3 how you'd do that, since the whole idea is one
4 of personal judgment anyway.

5 MR. HINNEFELD: Yes, if you're
6 going to quantify the degree of favorability,
7 then you have to have some sort of standard of
8 what is correct.

9 MEMBER MUNN: Yes, right.

10 MR. HINNEFELD: You know, not
11 favorable but just correct, you know. So then
12 you'd have to have some standard to go by and,
13 as far as I know, there isn't one.

14 MEMBER MUNN: No, the only thing
15 you can say is, is this going to give you a
16 larger number in the outcome? And that really
17 is about the only standard we have.

18 CHAIRMAN GRIFFON: So I guess --
19 David, do you have anything on that front?

20 MEMBER RICHARDSON: I assume,
21 based on that, that the focus is on the dose
22 reconstruction aspects of favorability and not

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1 the risk model issues of favorability.

2 MR. HINNEFELD: This is Stu, and
3 that was our thought, yes.

4 MEMBER RICHARDSON: That might be
5 made clear.

6 MR. HINNEFELD: Okay. I'll have
7 to go back to look at the quality of science
8 to see what it says. Sure, yes, we can --

9 CHAIRMAN GRIFFON: Or did this
10 question go to two different Subcommittees?

11 MR. HINNEFELD: No, it only came
12 here.

13 CHAIRMAN GRIFFON: Oh, it only
14 came here.

15 MR. HINNEFELD: It only came here.
16 And so we interpreted it for the dose
17 reconstruction favorability.

18 CHAIRMAN GRIFFON: Yes.

19 MR. HINNEFELD: And I know the
20 Science Working Group is, I think, taking up
21 the risk model part of it, I believe.

22 CHAIRMAN GRIFFON: Well, that's

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1 why I asked if the question was also posed to
2 that group. Anyway, okay --

3 MR. HINNEFELD: I think they took
4 that up. That was what they were doing anyway.

5 CHAIRMAN GRIFFON: All right, yes.

6 MR. FARVER: I think there's some
7 general methods that are less claimant-
8 favorable than others, such as Monte Carlo
9 calculations. I think those tend to be less
10 claimant-favorable.

11 MEMBER MUNN: But they are more
12 science-based.

13 MR. FARVER: I'm just saying they
14 are less claimant-favorable than if you just
15 go with the dose conversion factors that are
16 used sometimes where you just go straight
17 calculation. I'm not saying one is right or
18 wrong. I'm just saying that is an example of
19 a method that is less claimant-favorable.

20 MEMBER RICHARDSON: Why is that?

21 MR. FARVER: Why is that? It has
22 to do with the distribution of the dose

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1 conversion factors. They use a triangular
2 distribution, and when you do the Monte Carlo
3 calculation it will pick, it usually winds up
4 with a lower number than your mean number.

5 MR. SIEBERT: Well, this is Scott.

6 In that case, what you're talking about dose
7 -- DCF, it's not which is claimant-favorable.

8 It's which is claimant-favorable and which is
9 overestimating because you can pick the top
10 end of the range and just apply that as a
11 constant, and that's overestimated because we
12 know the range is in this distribution.

13 MR. FARVER: I understand. But --

14 MR. SIEBERT: Whereas, the best
15 estimate that we can use may still be
16 claimant-favorable. Sometimes, I think we
17 misuse the word "claimant-favorable," along
18 with "overestimating." Claimant-favorable, in
19 our program, is if we have two pieces of
20 information that are as likely, we will pick
21 the one that is more favorable to the
22 claimant, such as solubility type. If we

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1 don't know if it's Type M or Type S plutonium,
2 whichever gives the larger dose to the organ
3 of interest we will select. Now, if we have
4 the specific information as to the material
5 that was used, we will use the actual
6 solubility for the material used, which would
7 not be a claimant-favorable assumption.

8 MR. FARVER: Well, I guess I'm
9 just going back to where I'm reviewing the
10 dose reconstruction. I remember seeing the
11 ones that were, that did not have the Monte
12 Carlo calculation. They used the mean value
13 of the dose conversion factor, and it was a
14 very straightforward calculation. Didn't use
15 the maximum, used the mean value. It was not
16 called an overestimate because it was the mean
17 value taken out of IG-001.

18 Then there were the ones that used
19 the Monte Carlo calculations, and those tend
20 to be less than the mean value for the dose
21 conversion factor. I mean, do you agree with
22 that? I mean, they would tend to be on the

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1 lower end in many cases.

2 MR. SIEBERT: I would agree. The
3 issue is, though, if you use the mean, it's an
4 overestimate.

5 MR. FARVER: Okay. But from what
6 I've seen on the dose reconstructions, an
7 overestimate would be the mean is 0.8, but
8 we're going to overestimate it and call the
9 dose conversion factor of one.

10 MR. SIEBERT: That is an
11 overestimate. However, using 0.8 would also
12 be an overestimate --

13 MR. FARVER: Over the years in
14 the dose reconstruction, if you're using the
15 mean value, it's not normally classified as an
16 overestimate in the write-ups. The one would
17 be. You would say this is an overestimate.
18 And so I'm not talking about correctness. I'm
19 just saying this is the way it can be looked
20 at by people. You're saying one is claimant-
21 favorable, one is an overestimate, and then
22 one is less than the other. I'm not saying

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1 one is more right than the other. I'm saying
2 that is an example of, right there is there
3 different methods that give you three
4 different results.

5 MEMBER RICHARDSON: Yes, so this
6 is interesting because it frames the problem
7 much more narrowly that I was originally
8 interpreting it, and I think some of our
9 discussion was turning around of you would
10 have to know the truth and then claimant-
11 favorability means any Probability of
12 Causation value or distributions of values
13 which is greater than the true. But, here,
14 the other argument was that claimant-
15 favorability only pertains to situations in
16 which there are two well-specified options,
17 the choice between them is unknown, and the
18 claimant-favorable method is going to be to
19 select the one which is going to lead to a
20 higher Probability of Causation.

21 So then if that's your task, kind
22 of specified within dose reconstruction within

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1 those places where you have decision points to
2 be made and there's two well-specified
3 options, that's probably a narrower list than
4 the journal issue of, well, we used the upper
5 99th percent bound, all those different things
6 which one might view as claimant-favorable in
7 some general sense but which are not these
8 situations that you're making a distinction
9 between overestimating or something else.
10 Claimant-favorability, you're saying, is one
11 sort of decision-making advice.

12 MR. KATZ: Right. But, David, I
13 think the point of the review was this, I
14 think, Scott's distinction, because the point
15 of the review was how claimant-favorable, in a
16 sense how much of an overestimate is being
17 accorded in general for these dose
18 reconstructions, and we just talked about why
19 it's hard to quantify that or impossible to
20 quantify that. It wasn't really -- the
21 question from the review was not this more
22 narrow distinction of when they make these

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1 choices between two alternatives. I think the
2 review was intending to try to get at how much
3 sort of generosity is there in the dose
4 accorded to cases compared to what it would
5 have been if it had been estimated in the most
6 scientifically precise way it could have been.

7 MEMBER RICHARDSON: So there
8 Doug's point is a good one, because I assume
9 what the argument was saying is that the Monte
10 Carlo approach is the more scientifically
11 valid one. It's the default choice, but it's
12 not more claimant-favorable than choosing the
13 mean of the distribution. And if I'm
14 understanding that, that's because the
15 distribution is not symmetrical.

16 MR. HINNEFELD: That's correct.

17 MR. KATZ: Sure. And that sort of
18 points up what you're going to have. I think
19 different sites you have different tools, so
20 on one site you're using Monte Carlo because
21 you have the tool, et cetera, set up to do
22 that. And another site maybe you're using the

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1 mean because that's sort of the level of data,
2 et cetera, you have and the work you have to
3 support dose reconstruction. So you're going
4 to get a different answer to the question of:
5 how claimant-favorable is the dose
6 reconstruction? What degree of overestimate
7 is every precise dose reconstruction? You'll
8 have a different answer to that question at
9 different sites.

10 MR. FARVER: I don't think it's
11 site-specific, is it?

12 MR. HINNEFELD: Well, I think Ted
13 was talking in general.

14 MR. KATZ: Yes, I'm talking in
15 general. To answer that general question, the
16 answer is different depending on which site
17 this dose reconstruction was done for.

18 MR. HINNEFELD: I think the
19 specific case of external dose conversion
20 factors, though, those are published in IG-001
21 and they are the same everywhere.

22 CHAIRMAN GRIFFON: Yes, I mean, I

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1 was also trying to think of the, you know,
2 just in terms of if you get down to the method
3 or the choice, you know, there's some other
4 more qualitative ones, which is like placing
5 the worker which comes up again and again and
6 that question of the degree of favorability.
7 I mean, we've had many cases where we dispute
8 why it wasn't neutron-dose-assigned and it
9 gets down a lot of times into the CATI
10 interview versus their site records and were
11 they really in a building or whatever. So I
12 guess that's also part of how much, you know,
13 favorability did you give in that situation --

14 MR. FARVER: There's many
15 decisions along the way.

16 CHAIRMAN GRIFFON: Right, many
17 decisions along the way.

18 MR. FARVER: It could go either
19 way.

20 CHAIRMAN GRIFFON: Right. I guess
21 we could, I'm not sure how to give input. You
22 know, Jim is working on this. I'm not sure we

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1 can really, you know -- but I would argue that
2 some of these, you know, I think it's
3 important to look at the degree of
4 favorability of the methods, not just the
5 final outcome. I think you were arguing
6 different than that, though. But I think it
7 is important. Some of these methods are used
8 in a lot of different places, so if you look
9 at them and you say, overall, it looks like
10 almost all our methods -- I know the one
11 example Scott gave is a good one because we
12 always, well, I wouldn't say always, but we
13 always see the solubility based on, if you're
14 not sure, you select the one that is most
15 favorable, and we've seen that again and
16 again. So I think that's a good example where
17 they are trying to do that. Then there's this
18 one, which is a question mark maybe. So I
19 think there's -- some of those things maybe
20 can be considered.

21 MR. KATZ: I wasn't arguing --

22 CHAIRMAN GRIFFON: Oh, okay.

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1 MR. KATZ: My just broader point
2 was just that it's all about how much does it
3 push the dose above what would be the perfect
4 answer if you could get to a perfect --

5 CHAIRMAN GRIFFON: Oh, okay.

6 MR. KATZ: That's all I was
7 saying. So I think looking at different
8 methods is fine.

9 CHAIRMAN GRIFFON: Okay. Because
10 I was thinking we can't just throw up our
11 hands and say, well, we can never know the
12 truth, so we can't answer this question.

13 MR. KATZ: But it sounds like Jim
14 Neton's approach is to go at it at the most
15 broad level with some major tools that are
16 applied across the board that were addressed
17 in the HP journal. That sort of sets a very
18 large format evaluation for it. And then you
19 may dig into, you know, more details, more
20 particular tools, et cetera, as you go.

21 CHAIRMAN GRIFFON: Okay.

22 MEMBER KOTELCHUCK: Is the DCAS

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1 plan on the website, or can we get a hold of
2 it? As a new committee Member, can I see it?

3 MR. KATZ: He hasn't developed it
4 yet.

5 MR. HINNEFELD: He's not written
6 it in detail yet.

7 MEMBER KOTELCHUCK: Whatever he
8 has.

9 MR. HINNEFELD: He has an action
10 plan somewhere, but I don't know how specific
11 it is.

12 MEMBER KOTELCHUCK: I just, you
13 know, can't participate in the discussion --

14 MR. HINNEFELD: Soon, on our
15 website, will be, in addition to the reports,
16 which are there now, the five area reports and
17 then there is a summary of what were called
18 the priority recommendation, those are there
19 now. In addition to that, it will have what
20 we've identified as our action plan and then a
21 status update, and then there will be
22 subsequent status updates. Now, sometimes, a

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1 status update will say, well, you know, what
2 we originally described as our approach as
3 evolved a little bit, so the actions that are
4 written in our initial action plan should not
5 be considered, you know, carved in granite.
6 There could very well be some adjustment as
7 things go on, and we sort of recognize what's
8 doable and also what's going to be valuable.
9 But, yes, that will be there soon. I can't
10 tell you when, but we are working on that
11 page.

12 MEMBER KOTELCHUCK: Okay. I'll
13 keep my eyes open for it.

14 CHAIRMAN GRIFFON: Along those
15 lines, is it fair to ask -- I think we sort of
16 asked this last time and it's just not ready
17 yet. But when it's ready, can you bring Jim's
18 plan, NIOSH's plan how on you're going to set
19 this to the Subcommittee? And then maybe we
20 can have a more concrete discussion.

21 MR. HINNEFELD: Yes, we'll bring
22 Jim, too.

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1 CHAIRMAN GRIFFON: Bring Jim and
2 the plan.

3 MR. FARVER: Is there some element
4 you would like SC&A to look at and evaluate?
5 We could have a report for you for the next
6 meeting on the element --

7 CHAIRMAN GRIFFON: I think it's
8 better to wait until we see what they've got
9 and then maybe have your reaction.

10 MR. FARVER: I just didn't know
11 when they'd have something available.

12 CHAIRMAN GRIFFON: Right.

13 MR. FARVER: Okay.

14 CHAIRMAN GRIFFON: You want to keep
15 the ball moving. I appreciate that. I think
16 it's better for us to wait.

17 MR. FARVER: Okay.

18 MR. KATZ: Do we have an extra HP
19 journal that we could send David one?

20 CHAIRMAN GRIFFON: Yes, what issue
21 is that in?

22 MR. SIEBERT: It's a special

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1 Summer 2008.

2 MR. KATZ: We'll get you a copy of
3 that, and then you can see where we're coming
4 from, maybe.

5 MEMBER KOTELCHUCK: That would be
6 great. I appreciate it.

7 MR. HINNEFELD: I think we got a
8 stack. Anybody else want one?

9 MEMBER KOTELCHUCK: I'll be over
10 there later today.

11 MR. HINNEFELD: Well, I may be in
12 a different building. See if Chris can find
13 one and put it on my desk, and you can swing
14 by my office.

15 MEMBER KOTELCHUCK: I'd appreciate
16 it.

17 MR. SIEBERT: Can we get
18 autographed copies since DCAS people will be
19 in the building?

20 MEMBER CLAWSON: Oh, come on.

21 MR. HINNEFELD: That's right, Chris
22 is on vacation. Not sure if you'll be able to

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1 get one today, but we'll see. I'll let you
2 know.

3 MEMBER KOTELCHUCK: Fine, fine.

4 CHAIRMAN GRIFFON: Alright. Next
5 item. And I will remind, as I was starting to
6 do it myself, that we should each talk one at
7 a time, for the sake of our transcript. Next
8 item, the last item I think before lunch,
9 probably, is DCAS goals/priorities for timely
10 completion of dose reconstruction.

11 MR. CALHOUN: Okay, I got this.
12 This is Grady. Over time, we have gotten
13 better and better -- basically, we, as you
14 know, at the beginning of the program we were
15 somewhat overwhelmed with the number of dose
16 reconstructions we had to get completed. And
17 some of them languished for years, and that
18 was not good. We didn't like it, the
19 claimants didn't like it, nobody liked it.
20 Over time, what we have done is we have
21 incentivized our contractor to do better and
22 better as far as the completion of both dose

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1 reconstructions that are initially received
2 from the Department of Labor, as well as those
3 that are rework dose reconstructions.

4 So over time, for a while back,
5 I'll say two or three years ago, we had a goal
6 of a year that we wanted them to get them done
7 in. And that has steadily gone down. A
8 couple CPAF periods ago, and that's cost plus
9 award fee, our goal or their goal was to --
10 when I say incentivize them, you give them
11 money to do it. And so, basically, the goal
12 was we wanted them to complete 90 percent or
13 more of the dose reconstructions within nine
14 months of them being received by us.

15 MR. HINNEFELD: And I would just
16 mention a CPAF period is six months long.

17 MR. CALHOUN: It's six months,
18 yes. So we can adjust that or we can change
19 their goals and our goals every six months.
20 We also have gotten to the point where we are
21 really not the hold up, but we are really
22 relying heavily on the timely receipt of

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1 information from the Department of Energy
2 because I believe they have 90 days to give us
3 information that they receive that we need for
4 as far as dose reconstruction, dosimetry
5 records, X-ray records, whatnot.

6 So we came up a little while ago
7 with a hybrid, and it said we want 90 percent
8 of the dose reconstructions completed within
9 nine months of receipt here at OCAS and we
10 want them to provide 50 percent of the dose
11 reconstructions within six months of the date
12 that we received that last piece of
13 information. So what happened was, we're
14 starting to get dependent on when the last
15 piece of information is received, and then we
16 can start dose reconstruction.

17 So the overall goal of nine months
18 has gone away, and the current goal is that
19 they complete 90 percent or more of the dose
20 reconstructions within six months of the date
21 that the last piece of information was
22 received. And they are meeting that goal. So

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1 right now we are completing more than 90
2 percent of all the dose reconstructions we get
3 within six months of that last piece of
4 information that we received from the
5 Department of Energy.

6 Also, as far as reworks go,
7 reworks typically do not require, typically do
8 not require additional dosimetry information.

9 Most of our reworks are a result of
10 additional cancers being identified, okay? So
11 we also have a goal that we complete 90
12 percent of our rework cases in 60 days or
13 less. And the last several CPAF periods, ORAU
14 has been meeting that goal.

15 Now, if we have to request
16 additional information, sure, the dates are
17 going to go out and that will be noted when we
18 do our evaluation. But right now the goal is
19 90 percent of them within six months or less
20 of receiving that last piece of information
21 and 90 percent of rework cases within 60
22 calendar days or less of getting that back

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1 from Department of Labor.

2 So that's where we're at. I'm not
3 sure that we're going to be able to get a
4 whole lot better than that because, you know,
5 right now that's pretty fast.

6 CHAIRMAN GRIFFON: I'm curious,
7 you know, from my other life, we're often
8 looking at these contracts and the incentives
9 they have and almost always it's on production
10 and safety. So in that light, have you
11 considered incentivizing based on error rates?

12 In other words --

13 MR. CALHOUN: We have that in
14 there, too. We have that in there, too, and
15 that's always been in there. I don't have
16 that one right in front of me. I think it's
17 90 or 95 percent have to be provided to us
18 with no errors, no comments.

19 CHAIRMAN GRIFFON: Yes, yes, yes,
20 okay.

21 MR. CALHOUN: I can find that, but
22 I don't have that off the top of my head.

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1 CHAIRMAN GRIFFON: That's good.
2 Yes.

3 MR. CALHOUN: That's always been
4 in there, too, yes.

5 CHAIRMAN GRIFFON: Alright.

6 MEMBER KOTELCHUCK: You mean the
7 DRR reports?

8 MR. CALHOUN: Yes, dose
9 reconstruction reports.

10 MEMBER KOTELCHUCK: Because you
11 were above five percent in the beginning of
12 this graph that ORAU sent.

13 MR. CALHOUN: Right, right. But
14 what you've got to see, these are technical
15 errors, and that's all errors.

16 MR. HINNEFELD: That's all
17 comments.

18 MR. CALHOUN: That's right. And so
19 what happens is, there may be a little, yes,
20 there may be a little back and forth.
21 Sometimes there is, if this is a technical
22 error or not. And, certainly, when Labor

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1 sends us an additional cancer, we can't count
2 that against the contractor.

3 MEMBER KOTELCHUCK: Okay. Thanks
4 for the clarification.

5 CHAIRMAN GRIFFON: Okay. That's
6 interesting.

7 MR. FARVER: But I didn't think
8 you were tracking technical errors, I thought
9 you were just tracking total errors, or are
10 you tracking both?

11 MR. CALHOUN: That was that graph.
12 Every six months, ORAU will put together the
13 errors that we believe are errors, technical
14 errors, and, to get their award fee, they have
15 to be below X percent.

16 MR. FARVER: Okay. So you're
17 tracking the errors you find.

18 MR. CALHOUN: We send them to
19 them.

20 MR. FARVER: But don't you keep
21 track of what you send them?

22 MR. CALHOUN: No, I don't have a

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1 database. I've got a document for every one
2 that's been issued. I don't database it.

3 CHAIRMAN GRIFFON: Yes, right.
4 Going back to our former discussion, I was
5 thinking the same thing. Are we, I mean, have
6 they successfully met that award benchmark
7 each time?

8 MR. CALHOUN: Yes, yes.

9 CHAIRMAN GRIFFON: So far, they've
10 been under --

11 MR. CALHOUN: Yes.

12 CHAIRMAN GRIFFON: They've got the
13 award every year, every six months?

14 MR. CALHOUN: Well, no, I won't
15 say every year, every time. I'll say within
16 the last few years, for sure.

17 CHAIRMAN GRIFFON: Okay.

18 MR. CALHOUN: Yes, I can't say off
19 the top of my head for ten years.

20 CHAIRMAN GRIFFON: Okay, okay.

21 MR. CALHOUN: Yes, we beat them up
22 pretty hard in the beginning.

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1 CHAIRMAN GRIFFON: Okay, alright.
2 Any comments on that?

3 MEMBER KOTELCHUCK: No, that's the
4 way it is with any contracts, right? You say
5 you got a grant, I'm going to do this. At the
6 end of the year, you've done 85 percent of
7 this. What do you do, right? What does the
8 granting agency do? The answer is they put
9 pressure and say, well --

10 MR. CALHOUN: And if you meet the
11 goal, we're going to make it a little harder
12 next time.

13 CHAIRMAN GRIFFON: Well, that's
14 the continuous improvement angle.

15 MR. CALHOUN: Right now it's 95
16 percent.

17 MR. SIEBERT: Which is exactly
18 what has happened with the timeliness issue.
19 It has slowly moved downward.

20 MR. KATZ: The figure is 95
21 percent? Is that what you just said?

22 MR. CALHOUN: Yes.

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1 CHAIRMAN GRIFFON: For error
2 rates.

3 MR. KATZ: For errors?

4 MR. CALHOUN: Without a technical
5 comment, yes.

6 CHAIRMAN GRIFFON: Any input? I
7 mean, it seems like a reasonable path forward.
8 David, any comments on this?

9 MR. CALHOUN: Dave, if you're
10 commenting, we can't hear you.

11 MEMBER RICHARDSON: No, no.

12 CHAIRMAN GRIFFON: The only other -
13 - you may have this in there, also, but you
14 said 90 percent within nine months. Is there
15 something like 100 percent within two years,
16 or is there any --

17 MR. HINNEFELD: You mean for 100
18 percent?

19 CHAIRMAN GRIFFON: Yes.

20 MR. HINNEFELD: We've actually
21 kind of avoided 100 percent because you've got
22 one oddball or some weird one.

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1 CHAIRMAN GRIFFON: Is there
2 anything like 95 -- I know that sometimes --

3 MR. CALHOUN: No, we go below
4 that. We go below that. To get the most
5 reward, it's 90 percent or more within six
6 months of the last piece of information being
7 received. If they get less than 90 percent in
8 six months, then they get a lesser amount of
9 fee.

10 CHAIRMAN GRIFFON: Right, right,
11 right. Do you graduate it the other way,
12 through 95 --

13 MR. CALHOUN: We have not. Ninety
14 is the high right now. And we just went --

15 CHAIRMAN GRIFFON: I was just
16 curious.

17 MR. CALHOUN: That's okay. And
18 we're moving towards it, and we just got to
19 the point where we went from nine months to
20 six months.

21 CHAIRMAN GRIFFON: Because if you
22 look at your other report, too, I'm looking at

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1 the cost, and if you look at these numbers, I
2 mean, 2010, it looks like 90 percent are the
3 efficiency cases, you know. So to really
4 creep down there and get these harder cases.
5 I mean, I remember in the first five years
6 those are the ones that kind of hung on. And
7 I can see your point. You don't want to go
8 maybe to 100 percent but --

9 MEMBER MUNN: You won't get to 100
10 percent, so it is --

11 CHAIRMAN GRIFFON: Right. That's
12 what I'm saying.

13 MEMBER MUNN: -- it's
14 counterproductive to establish unreasonable
15 goals for any organization or individual when
16 you know you can't meet it.

17 CHAIRMAN GRIFFON: I hear a lot of
18 people say zero --

19 (Simultaneous speakers.)

20 MR. CALHOUN: You've got to say
21 that.

22 CHAIRMAN GRIFFON: Yes, so you

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1 graduate your award, you know.

2 MR. CALHOUN: Right, right.

3 CHAIRMAN GRIFFON: I don't know
4 what the --

5 MR. CALHOUN: And we do. And we
6 do.

7 CHAIRMAN GRIFFON: Anyway, my
8 point being that 90 percent, you know, maybe
9 since the more difficult cases tend to be the
10 best estimate cases, you know, you're not even
11 getting at those in this equation necessarily,
12 you know. That's a crude, crude analysis.

13 MR. CALHOUN: I hear you.

14 CHAIRMAN GRIFFON: Yes.

15 MR. CALHOUN: And that's something
16 that we could look at, but I'm real happy with
17 six months.

18 CHAIRMAN GRIFFON: Oh, yes.
19 Overall, I like the way you've done it, and I
20 like that you got the error part in there,
21 too.

22 MR. CALHOUN: I can tell you, just

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1 from a meeting standpoint, I couldn't really
2 say much as far as "my dose went down." I can
3 tell you for sure that I got a lot less
4 comments of: "why did you have my dose
5 reconstruction for three years?" That's gone
6 way down.

7 CHAIRMAN GRIFFON: Absolutely.
8 That's good.

9 MR. HINNEFELD: Yes. And the
10 phone contact to our PHAs is dramatically
11 lower, dramatically lower than it was a few
12 years ago.

13 CHAIRMAN GRIFFON: Good.

14 MR. HINNEFELD: Because most
15 people were calling about status of their
16 case, and we just don't have their case
17 anymore.

18 CHAIRMAN GRIFFON: These are good
19 indicators to be tracking. Good, good.
20 Alright. Well, I think I'm satisfied with
21 that. I think we can report back on that one,
22 as well, to the full Board. Alright. Is there

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1 anything else on that topic?

2 MEMBER MUNN: You promised --

3 CHAIRMAN GRIFFON: Yes, Wanda wants
4 a chocolate break.

5 MEMBER MUNN: You're right.

6 (Laughter.)

7 CHAIRMAN GRIFFON: Yes. I don't
8 think we should open up the next item with ten
9 minutes before 12.

10 MR. KATZ: We want to be on time
11 getting back.

12 CHAIRMAN GRIFFON: Yes, let's take
13 lunch until one, but let's try to be back at
14 one because we've got Jim and Paul joining us.

15 MR. FARVER: And we're going to go
16 back to the next item after 1:00?

17 CHAIRMAN GRIFFON: Yes, the 1:00
18 item. Right. Which is the --

19 MR. KATZ: Looking at revisiting
20 the whole dose reconstruction review process.
21 We're not doing the Savannah River until
22 after.

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1 CHAIRMAN GRIFFON: Okay. Let's
2 break until 1 p.m.

3 (Whereupon, the above-entitled
4 matter went off the record at 11:52 a.m. and
5 resumed at 1:01 p.m.)

6 MR. KATZ: We're reconvening after
7 lunch break. This is the Advisory Board on
8 Radiation and Worker Health, Subcommittee on
9 Dose Reconstruction Review. Recheck on the
10 line and see which Board Members we have. We
11 should have Dr. Richardson returning, and
12 we're also expecting Drs. Melius and Ziemer.
13 Do we have any Board Members on the line?

14 MEMBER MELIUS: Yes, it's Jim
15 Melius. I'm on the line.

16 MR. KATZ: Oh, great. Welcome.
17 How about Dr. Ziemer and Dr. Richardson?

18 MEMBER MUNN: Well, good
19 afternoon, Jim. Jim made it anyway.

20 MEMBER MELIUS: Yes, hi.

21 CHAIRMAN GRIFFON: We're happy to
22 report that we worked up a dose reconstruction

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1 review process.

2 MEMBER MUNN: It's all done now.

3 MEMBER MELIUS: Good. How about
4 the rest of your work?

5 CHAIRMAN GRIFFON: Did you forward
6 this to Jim, by the way?

7 MR. KATZ: I did.

8 CHAIRMAN GRIFFON: Okay, great.

9 MR. KATZ: Jim, did you receive, I
10 forwarded, I hope I did, I forwarded to you
11 and Paul, as well as the Members, a document
12 that Mark had sent to me. It was a piece of
13 the contract with SC&A, the original contract.

14 MEMBER MELIUS: Yes.

15 MR. KATZ: Okay. You got it.
16 Great.

17 MEMBER MELIUS: I got it, yes.

18 MR. KATZ: Good.

19 CHAIRMAN GRIFFON: It should look
20 familiar with the basic review, advanced
21 review, et cetera.

22 MEMBER MELIUS: Yes. No, that's

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1 from a long time ago. I'm not sure I could
2 have rewritten it myself without looking but
3 --

4 CHAIRMAN GRIFFON: Yes, I know.

5 MEMBER MUNN: Oh, you remember it,
6 Jim.

7 MR. KATZ: So, Paul, have you
8 joined us? Or David on the line? Jim, have
9 you spoken recently to Paul about this?

10 MEMBER MELIUS: No. I emailed
11 him, and then I can't recall if I heard back
12 or not. So if I did, I would have erased the
13 email but --

14 CHAIRMAN GRIFFON: Well, let's
15 wait two more minutes at least for David.

16 MEMBER KOTELCHUCK: By the way,
17 there are two Davids here, so David R. or K.
18 would be helpful. Whenever you say David, I--

19 MEMBER MUNN: He jumps.

20 MEMBER KOTELCHUCK: I wouldn't say
21 I jump, but I lean forward.

22 MEMBER MUNN: I like jump better.

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1 MEMBER POSTON: So it's David R.
2 and David Eileen.

3 CHAIRMAN GRIFFON: Yes.

4 MEMBER RICHARDSON: This is David
5 Richardson. Hi. I was going to blame those
6 long French lunches for the delay, but I guess
7 we can't.

8 CHAIRMAN GRIFFON: Okay.

9 MEMBER RICHARDSON: By the way,
10 that would have been a legitimate excuse.
11 Just an extra hour, right?

12 MEMBER MUNN: Well, no, it's
13 August. He isn't supposed to be here at all.

14 MEMBER RICHARDSON: That's true,
15 yes.

16 CHAIRMAN GRIFFON: Okay. So we're
17 going to, we saved this item for Jim and Paul.
18 I don't know if Paul is on the line? Anyway,
19 I think we'll start, and, hopefully, Paul can
20 join us. We saved this item. This has been
21 something we've talked about for a few
22 meetings that we need to maybe reassess the

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1 methodology that we're using for doing our
2 reviews, doing our work on this Subcommittee.

3 Also, I think we've raised this before, as
4 well, the selection process, whether we, you
5 know -- so I think maybe both those issues.

6 And just to help trigger the
7 conversation, I meant to send this earlier but
8 this morning we got the document that sort of
9 outlines where we started with the method
10 anyway. And it lays out the construct of the
11 basic review, advanced review, blind reviews.

12 And I guess I'll open it up. Jim, do you
13 have, you know, some things you wanted to
14 weigh in on? Maybe we can hear from SC&A,
15 too, on what they think, how it's worked, how
16 it hasn't, you know, why it hasn't worked?

17 MEMBER MELIUS: I guess the two
18 things I have is -- one is a question. So
19 where exactly do we stand with the blind
20 reviews?

21 CHAIRMAN GRIFFON: That's a good
22 question. We've done three or two?

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1 MR. FARVER: Two.

2 CHAIRMAN GRIFFON: Two. We've
3 done two. We promised to bring it on the
4 agenda today. I'm not sure if it is on the
5 agenda today, but we did say we would bring
6 it.

7 MR. FARVER: You mean to discuss
8 those reviews?

9 CHAIRMAN GRIFFON: Yes.

10 MR. FARVER: Okay, yes. Now, they
11 were submitted to the Subcommittee what? Two
12 years ago?

13 CHAIRMAN GRIFFON: Yes, yes.

14 MR. FARVER: A long time ago.

15 CHAIRMAN GRIFFON: And we took an
16 initial look at them. I can't --

17 MR. FARVER: Yes, and I don't
18 remember what was said or --

19 MEMBER MELIUS: Okay.

20 MR. FARVER: I mean, that's
21 because of the time lapse.

22 CHAIRMAN GRIFFON: Right, right,

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1 right, right. But we might -- yes. That
2 might be one thing that we need to re-look at
3 because we've done so few of them and --

4 MR. FARVER: Yes. Like I said,
5 we've done two.

6 CHAIRMAN GRIFFON: Yes.

7 MR. FARVER: And you might want to
8 look and see if you like the process, if you
9 want to change it and maybe try some more
10 blind reviews.

11 MEMBER MELIUS: I guess my
12 perspective on it is I think there's a number
13 of things we're trying to achieve. One is can
14 we make the process more efficient and more
15 timely in terms of doing the reviews. On the
16 other hand, at least for me and I think for
17 other Board Members that participate, the
18 basic dose reconstruction reviews are often
19 very frustrating because we're often reviewing
20 -- the way they go about it, they really don't
21 take into account whether or not a particular
22 dose reconstruction method is under review or

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1 under revision or has been found to be, you
2 know, not adequate, you know. An SEC has been
3 awarded based on that particular exposure or
4 inability to reconstruct that particular
5 exposure. And I think that, while they're
6 technically correct, they can give a
7 misleading perception of the overall dose
8 reconstruction process, and I think that what
9 Congress was asking us to weigh in on was not
10 just was NIOSH following the right -- you
11 know, their own methods appropriately, but
12 were the overall methods appropriate and
13 scientifically sound? And I think, in fact,
14 when we originally set up this process was why
15 we included both what we called the advanced
16 but also the blind reviews.

17 We set up this process at a time
18 while NIOSH was still in the process of
19 establishing how they were going to approach
20 dose reconstructions in this program and
21 around that time sort of made a change. The
22 Site Profiles became much more living

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1 documents, rather than, you know, sort of
2 documents that were going to guide, you know,
3 where those particular, the initial versions
4 were going to guide the program for a
5 significant period of time. Now, I think that
6 was a good decision on NIOSH's part, but it
7 sort of makes it much harder for the dose
8 reconstruction reviews to be done and to at
9 least have complete validity in terms of an
10 evaluation of the overall program.

11 So I guess some of this discussion
12 started recently when we were looking at sort
13 of, How do we improve the efficiency of the
14 dose reconstruction review? But I think, at
15 the same time, we need to step back and think
16 is there an overall approach that would be
17 better and, you know, provide a more -- I keep
18 hesitating. I don't dare use "scientifically
19 robust", because --

20 MEMBER MUNN: Please don't.

21 MEMBER MELIUS: -- even at this
22 distance on the phone from Wanda, I'll get in

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1 trouble.

2 MEMBER MUNN: You know you'll get
3 feedback.

4 MEMBER MELIUS: Yes. But I think
5 we need to look again at the process and is
6 there a better way of accomplishing it, given
7 the needs of the program? On the other hand,
8 I think that we've gone through a lot of SECs.

9 There's been a lot of Site Profiles that have
10 been updated. We've done a lot of the
11 procedure reviews that have, I think, led to
12 some, are leading to some changes in the
13 program. So in some way, you know, maybe
14 going forward, the dose reconstruction, sort
15 of the background methodology that NIOSH is
16 using may be much more stable than it has been
17 over the last, you know, several years. But
18 at the same time, I still think we need to
19 figure out is there a way of doing it better?

20 Again, I think I said this at the
21 Board meetings, this is a really a critical
22 function for the Board to be doing, and I

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1 think we need to be sure that we're providing
2 adequate resources to it. And I think that if
3 a change means additional resources going to
4 this activity, then I think we need to, you
5 know, do that.

6 MEMBER MUNN: So let me make sure
7 I understand. You're addressing our process
8 here in the Subcommittee overall? You're not
9 just addressing what Doug had to say about our
10 blind reviews, right?

11 MEMBER MELIUS: Correct, yes.

12 MEMBER MUNN: Okay, fine. Because
13 I was thinking in terms of blind reviews when
14 you started talking.

15 MEMBER MELIUS: No, I apologize.
16 I should have clarified. I think one
17 possibility is increasing the number of blind
18 reviews, but what I was trying to get at is,
19 well, what have we found in the blind reviews?
20 Are they worth doing? Because those are a
21 significant amount of resources go into those.
22 They may provide a better, more comprehensive

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1 review of an individual dose reconstruction,
2 but they are very, you know, can be very labor
3 intense. Obviously, we can't do as many of
4 those as we could do of the current reviews.

5 MEMBER MUNN: No, but those
6 impinge on our conversations that we had here
7 earlier this morning.

8 MEMBER MELIUS: Okay.

9 MEMBER MUNN: We were discussing
10 at considerable length how do you know that
11 you've improved if you don't have really
12 reliable data from previous activities, and
13 those two blind reviews we have will give us
14 at least a small baseline to start. But
15 that's beside the point. The point is
16 improving our process here.

17 MEMBER MELIUS: Yes. Well, and I
18 think that's also important. Maybe I didn't
19 say it, but what you were just saying, Wanda,
20 is that, you know, we want to be improving the
21 process and we want to be conducting our
22 reviews in a way that we, you know, help NIOSH

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1 improve the process. We're not just doing an
2 outside scorecard and, you know, reporting to
3 Congress what that scorecard says but rather
4 that do it in a way that can contribute to
5 helping NIOSH to improve the program.

6 CHAIRMAN GRIFFON: I think, I
7 mean, looking back at the original language,
8 you know, which I should point out is probably
9 version nine or so that we went through on
10 this language, but, I mean, one thing that it
11 says and that I'm reading here is that the
12 contractor shall evaluate and recommend
13 whether or not assumptions, individual case
14 assumptions, and assumptions applicable to
15 multiple cases made for dose reconstruction
16 are appropriate and defensible for purposes of
17 this program.

18 I'm not sure that a lot of our --
19 here's the dilemma I see is that a lot of the
20 reviews we do right now, in my opinion, end up
21 being the basic review. Occasionally, we will
22 get the more in-depth review where we're

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1 drilling down to the assumptions. But even if
2 we have a finding around the assumptions, it
3 ends up going back to a Site Profile committee
4 often. We don't really resolve it. So we
5 have this thing. It's broader than the DR
6 Subcommittee, I think, because we end up with
7 these open Site Profile documents that are
8 sort of waiting to be revised until those
9 individual Work Groups, you know, resolve all
10 the findings. And we have these drilled down
11 findings from our committee that says, well,
12 we want the Site Profile Work Group to address
13 this, so we're, you know, we're spinning our
14 wheels a bit on that capacity. Where we've
15 tended to focus is on the basic reviews, and
16 we're identifying a lot of the more quality
17 control type of findings.

18 Anyway, that's just an observation
19 from my standpoint.

20 MEMBER MELIUS: I don't recall the
21 details or exactly how we came about this, but
22 at one point we sort of did away with the

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1 basic and the advanced --

2 CHAIRMAN GRIFFON: Yes.

3 MEMBER MELIUS: -- and we combined
4 the two, and I think we were well intentioned.

5 There were some good reasons for doing it,
6 but I think some of it was there was so much
7 activity going on with the Site Profiles and
8 changes and so forth that it made some of the
9 advanced reviews difficult. But I don't think
10 we ever went back and looked at that. And
11 maybe that's another approach that would be
12 helpful because we're aware of some of the
13 issues of just, you know, limitations of just
14 doing the basic reviews. And we really want
15 to get, you know, the reviews going and be
16 able to report back to NIOSH and to the
17 Secretary what was, you know, yes, that they
18 were doing an appropriate job of conducting
19 these in terms of sort of basic quality, I
20 guess you would call it, of the program. But
21 I think that, I think, as we go by, what was
22 contained -- the intent of both the advanced

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1 and the blind reviews are, you know, sort of
2 got lost in the effort to do all the basic
3 reviews.

4 CHAIRMAN GRIFFON: Yes, I'm
5 looking at, like, some of the bullets, Jim,
6 and, you know, in the advanced review. You
7 know, you start talking about looking at the
8 Technical Basis Documents and looking at the
9 approach for unmonitored dose. Well, the
10 technical basis ends up being -- so one thing
11 we're finding here is that we have certain
12 findings and then we're actually referring
13 them to the Site Profile committees that are
14 working on that. And then, because of all of
15 our focus on the Work Groups, the other Work
16 Groups of looking at SEC issues, we're not
17 getting to these, you know, so we're not
18 getting any resolution there. Right.

19 And the other thing on the
20 unmonitored worker, that's coworker models for
21 the same thing. It's outstanding finding on
22 the Los Alamos Work Groups, so we just sort of

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1 defer it to the Los Alamos Work Group.

2 MR. KATZ: I'm just wondering,
3 because, I mean, I haven't been here for the
4 long haul, but in recent years I can't
5 remember referring anything even to a Work
6 Group.

7 CHAIRMAN GRIFFON: Well, but then
8 that goes back to my --

9 MR. KATZ: To the Subcommittee.

10 CHAIRMAN GRIFFON: Yes, then that
11 goes back to my other thing, which is a lot of
12 them tend to be more basic reviews. So either
13 we're not doing this drill-down --

14 MR. FARVER: Well, the basic
15 reviews are what we've been doing for DOE
16 sites.

17 CHAIRMAN GRIFFON: Oh, I thought
18 those were advanced -- those are --

19 MR. FARVER: No, I'll call those
20 basic reviews.

21 CHAIRMAN GRIFFON: Okay.

22 MR. FARVER: Now, advanced reviews

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1 where we actually go in and look at the
2 Technical Basis Documents and say do we like
3 the Technical Basis Document, that's more of
4 what we do for AWEs.

5 CHAIRMAN GRIFFON: Yes, AWEs.
6 Sorry. Right.

7 MR. FARVER: And that's simply
8 because we may look at an AWE site because
9 that might be the only case we look at for
10 that site.

11 CHAIRMAN GRIFFON: Right. I
12 agree. That's how --

13 MR. FARVER: And that's how it's
14 been set up.

15 CHAIRMAN GRIFFON: And that's how
16 it's evolved kind of is the --

17 MR. FARVER: Well, the basic
18 review, we are going to, say, Savannah River.

19 Over the course, we're going to look at a
20 hundred cases. I don't need to do a hundred
21 profile reviews or review it every time I do a
22 dose review. So what we've done is we went

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1 and reviewed the Site Profile and identified
2 issues in the Site Profile. That way, we
3 don't have to do it for every dose
4 reconstruction review. And the lapse has
5 been, the findings that we identify with the
6 Site Profile are just kind of hanging out
7 there.

8 CHAIRMAN GRIFFON: Yes, that's
9 kind of what I just said. Yes.

10 MR. FARVER: And what would be
11 useful is, and I'll use Savannah River as an
12 example, it was last revised in 2005, I
13 believe, the Technical Basis, okay? Since
14 then, they're doing many things differently,
15 according to their DR guide. So there's
16 changes that are going on. Well, that's
17 probably a bad example because that one hasn't
18 been revised.

19 Okay. Let's pick another one,
20 like INEL. Now, that's been revised. What we
21 did with INEL is, a couple of years after we
22 did our first Site Profile review, we went

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1 back and looked at it with the changes made
2 and wrote a revised Site Profile review that
3 identified, okay, these issues have been
4 closed, these issues are still open. And what
5 might be helpful is if we go back and look at
6 the Site Profiles that have been revised since
7 we reviewed them and do an update and say,
8 okay, these are the issues identified in the
9 original profile review, these are the changes
10 they made, and that will take care and they'll
11 close out these items and these items still
12 remain open. But we have never done an
13 update, and there's been, you know, in some
14 cases, five years lapsing between the time we
15 did the Site Profile and a couple of revisions
16 later we have a new Site Profile.

17 CHAIRMAN GRIFFON: Wanda and I --

18 MEMBER MUNN: I can see where this
19 is going. It doesn't have to be a rocket
20 scientist to figure out that this is going
21 back to, well, why isn't NIOSH updating those
22 TBDs? And we all know why NIOSH isn't

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1 updating those TBDs. We have a choice here,
2 and we have to help make it in this
3 Subcommittee on behalf of the Board because
4 there is not enough time to spread around for
5 everybody to do everything that we want done.

6 So if we want some of the TBDs to get
7 updated, we have to be willing to accept what
8 that means in terms of schedule for the other
9 things that we have on the cooker.

10 So if we're going to do that, I
11 would strongly suggest that we begin to
12 discuss what sites we would like to focus on
13 so that we can see the Site Profile updated to
14 the point we feel that we can now use cases
15 that are being done under that Site Profile.
16 If that's where we're going, I just want to
17 point out that this is what we're talking
18 about here.

19 MR. FARVER: I started off with a
20 bad example, I mean, because I know there are
21 other issues at Savannah River and that was a
22 bad example. But there are Site Profiles that

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1 we reviewed, we'll say five years ago, that
2 now have gone through re-revisions and, like,
3 we're issuing them in 2010 revised. But we
4 haven't looked at them since the time we
5 initially looked at them to see, you know,
6 were our recommendations, any changes made.

7 MEMBER MUNN: Well, solely
8 individually I would like to say, if we're
9 going to have you look at some more, I would
10 like to have you look at something that's
11 current.

12 MR. FARVER: Oh, yes, yes, yes.

13 MEMBER MUNN: I would not like to
14 have you look at some interim revision and
15 still have outstanding issues that are going
16 to affect our --

17 MR. FARVER: No, no --

18 MEMBER MUNN: -- decision here
19 with respect to cases.

20 MR. FARVER: No, I agree. I mean,
21 ones that have been revised and are out there
22 currently that have a considerable lapse since

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1 our original review so that we just can get
2 updated on what changes were made because, you
3 know, we have this section in our reports, you
4 know, Section 1.3, where we identify Site
5 Profile issues. But some of those are pretty
6 old, and some of those probably have been
7 fixed.

8 CHAIRMAN GRIFFON: Have been
9 resolved. Right, right.

10 MR. FARVER: But I didn't realize
11 there was that big a lapse until I started
12 looking and seeing when our review was and
13 what's the current revision of the document
14 out there today. And there's some cases,
15 it's, you know, seven years. So that would be
16 helpful if we could go back and look at those
17 and say these things have been changed, and we
18 don't have to address them anymore.

19 MEMBER MUNN: And this is our
20 brand new set of priorities we would like to
21 bring to the Board for how we're going to look
22 at these.

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1 CHAIRMAN GRIFFON: Yes. I mean,
2 it's complicated. Those are the issues; I
3 agree. I mean, I'm thinking also that, you
4 know, that number one priority probably is for
5 us, we're auditing as the program goes on, so
6 number one is to, I guess, continually
7 improve. On the other hand, you know, just
8 because everything's, you know, you can look
9 maybe at Idaho now and say, oh, the Site
10 Profile looks great and they resolved all our
11 issues from six years ago, so you have no
12 findings. Just say that's the case, right?
13 What happens to all the cases that were
14 processed in that interim under the old Site
15 Profile? I mean, we still may need to examine
16 those. They may not have been --

17 MR. FARVER: That would be like a
18 separate issue. That's still looking back at
19 the dose reconstruction.

20 CHAIRMAN GRIFFON: Right, okay.

21 MR. FARVER: Instead of looking at
22 the Site Profile changes.

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1 CHAIRMAN GRIFFON: Right.

2 MR. FARVER: I try to keep them
3 separate.

4 MEMBER MUNN: And we can't because
5 it all muddies together.

6 MR. FARVER: I know, it does.
7 It's muddy.

8 MR. KATZ: It's complicated, too,
9 because in those cases, where you've made
10 changes, you have a PER, and you have a PER
11 review process --

12 CHAIRMAN GRIFFON: That's what I
13 was going to say, yes.

14 MR. KATZ: -- but that's the next
15 step on those --

16 CHAIRMAN GRIFFON: If it was a
17 change that NIOSH deemed wasn't -- a PER
18 wasn't necessary for and, yet, we find, you
19 know, the Committee could find something
20 differently, you know --

21 MEMBER MELIUS: I don't think we
22 have a process that identifies a situation

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1 where NIOSH inappropriately, you know, decides
2 that they're not going to do a PER change.
3 But if they decide it's not, they shouldn't do
4 it, that we would only review them when they
5 decide to do them.

6 CHAIRMAN GRIFFON: Yes.

7 MEMBER MELIUS: And, again, I'm
8 not sure there are instances where they've
9 been wrong, but I think we're essentially
10 operating, I think we're operating our dose
11 reconstruction review process on the
12 assumption that we rely on basic reviews, and
13 so implicitly assume that all other parts of
14 the program are working fine: the Site Profile
15 reviews, the SEC reviews, that everything
16 else, all the changes that take place in those
17 documents, necessary changes and procedures
18 and so forth are taking place in, that we
19 don't have to worry about the quality of any
20 of those when we're doing our dose
21 reconstructions.

22 CHAIRMAN GRIFFON: I mean, I'm not

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1 sure that's been our assumption in the past,
2 but if you use the basic review model, that
3 would be.

4 MEMBER MELIUS: Yes. I mean,
5 that, operationally, is where we --

6 CHAIRMAN GRIFFON: That's kind of
7 where we are, except for the AWE, which are
8 the mini-Site Profiles, as I call them.

9 MR. FARVER: As I said, how we've
10 been operating on reviewing the DOE dose
11 reconstructions, we would review the documents
12 that are referenced in the dose
13 reconstruction, that's for version number, and
14 see if they followed those documents.

15 CHAIRMAN GRIFFON: Yes.

16 MEMBER MELIUS: We really don't
17 even have a way of, an ongoing process to link
18 up and identify those or follow up on what's
19 happened.

20 CHAIRMAN GRIFFON: But, see my
21 concern, Jim, is on the flip side, that we're
22 not answering the fundamental question that

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1 you laid out at the beginning.

2 MEMBER MELIUS: Yes.

3 CHAIRMAN GRIFFON: Which is, you
4 know, are these scientifically -- we're not
5 looking at that side of it, the science side
6 of it as much. We're looking at the quality
7 side of it, I think, more, the basic reviews.

8 MR. FARVER: With the basic
9 reviews.

10 CHAIRMAN GRIFFON: Yes. And we're
11 counting on the fact that the Site Profile
12 groups, Work Groups, et cetera, are picking up
13 the scientific quality side of it.

14 MEMBER MELIUS: Correct. Yes,
15 that was what I was trying --

16 CHAIRMAN GRIFFON: I mean, and I'm
17 not criticizing any of them. We're all on
18 these Work Groups, you know, and we've all
19 been focusing on SECs.

20 MEMBER MELIUS: Right.

21 CHAIRMAN GRIFFON: So it's a
22 prioritization.

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1 MEMBER MELIUS: Yes.

2 CHAIRMAN GRIFFON: So, I mean,
3 from that standpoint, do you see any need to -
4 - I mean, if we assume that works correctly,
5 I'm not sure there is much need to change the
6 focus, if this Subcommittee remains focused
7 mainly on basic reviews, looking at quality
8 control issues, along with these AWE sites
9 where there are no Site Profiles really.
10 There's, you know, there's sort of very small
11 sites. We do more in-depth reviews on those.
12 You know, do we need to alter anything, I
13 guess is the question.

14 MEMBER MELIUS: Well, my question
15 then would be are we doing what we're charged
16 in the legislation to do? And I don't think
17 we are. We're certainly not communicating
18 that in our letters to the Secretary or what's
19 implicit and what we're doing. So --

20 CHAIRMAN GRIFFON: No, I hear what
21 you're saying.

22 MEMBER MELIUS: Yes, I think that

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1 --

2 CHAIRMAN GRIFFON: I don't know if
3 we have to fold back in the Site Profile
4 information. Yes, yes.

5 MEMBER MELIUS: And I'm not saying
6 we do away with basic reviews. I mean,
7 whatever. I mean, I don't think it would
8 necessarily require, you know, drastic
9 changes. But I think we need to evaluate how
10 good a job are we doing and is there a better
11 approach. Part of that evaluation, you know,
12 I think would come from the blind reviews.
13 Obviously, we don't have anywhere near enough
14 to, you know, evaluate the overall program
15 from those. But I think, over time, they
16 could, we could build up, you know, I think
17 some good information from them. So do we
18 consider increasing the number of blind
19 reviews? Because we certainly have not done
20 anywhere near what we originally intended to
21 do.

22 CHAIRMAN GRIFFON: Yes. No, I

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1 agree.

2 MEMBER MELIUS: So that's one.

3 And then, secondly, is there some --

4 CHAIRMAN GRIFFON: The concern --

5 MEMBER MELIUS: -- a little bit
6 about this at the last meeting. I'm not sure
7 if it was during the meeting or offline or
8 whatever. Is there some tasking that you
9 could do to or the Board can do to SC&A to
10 have them sort of follow up on some of the
11 past dose reconstruction reviews? Maybe it's
12 focused on a few sites just to see what's
13 happened there?

14 CHAIRMAN GRIFFON: You mean --

15 MEMBER MELIUS: Yes, what ranges
16 have taken place in the Site Profiles, all the
17 other technical documents related, that would
18 raise it, you know, do those changes raise
19 questions about, essentially, how good was our
20 original evaluation?

21 How many of those findings, you
22 know, how many of those dose reconstructions

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1 did we find that the dose reconstruction
2 couldn't be done with sufficient accuracy,
3 where that exposure was a major part of a
4 person's site exposure? Where have the, you
5 know, what changes have taken place in the
6 message -- I mean, I think NIOSH has to be
7 concerned, also, what about the changes from
8 the 10-year review, the issues that were
9 raised there?

10 CHAIRMAN GRIFFON: Yes, I'm trying
11 to --

12 MEMBER MELIUS: And so doing that
13 --

14 CHAIRMAN GRIFFON: -- follow you a
15 little bit on that one element --

16 MEMBER MELIUS: -- on a sample,
17 and I don't know whether it's on a site or
18 whatever particular site would be, I think,
19 could be potentially helpful. And, again, I'm
20 mindful of what Wanda was saying that, yes,
21 we've got limited resources and we're not, we
22 don't want to be having the dose

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1 reconstruction reviews being repetitious of
2 doing what we're already doing under Site
3 Profile reviews or procedure reviews or SEC
4 reviews.

5 CHAIRMAN GRIFFON: Right. Well,
6 let me just, you said a lot there and I want
7 to maybe try to understand some of it. On the
8 blind reviews, my one concern, I mean, I think
9 it might be useful to do more of those. My
10 one concern would be that if I fast-forward
11 this a bit, I can see this situation where the
12 resolution out of the blind reviews, I mean,
13 if you're getting into a Savannah River blind
14 review case, then if you start to drill down
15 on that you're going to be addressing similar
16 questions that were raised in the Site
17 Profile, I'm guessing anyway, similar
18 questions that have already been raised in the
19 Site Profile matrix for Savannah River.
20 Possibly. Maybe not completely overlapping,
21 but I would bet some of them would overlap
22 with the issues of the -- do you get what I'm

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1 saying, Jim?

2 MEMBER MELIUS: Absolutely. And I
3 guess I was thinking two things. One is just
4 doing the blind reviews would be almost not as
5 sort of a basic way of looking at dose
6 reconstruction but as a way of evaluating
7 where we are now. You know, if you told me
8 that the two blind reviews you did, you know,
9 required or will require so much resources
10 that you weren't able to do what we originally
11 intended with the blind reviews because it
12 would have been repetitious of what had
13 already been done by, you know, SEC
14 evaluations, whatever, Site Profile reviews
15 and so forth, then I think that, you know, one
16 says something about what approach should we
17 use for the blind reviews but also says
18 something about sort of the state of the
19 program.

20 It actually would indicate maybe,
21 you know, maybe this combined approach of, you
22 know, Site Profile reviews, procedure reviews,

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1 et cetera, and basic reviews was working so
2 you weren't finding anything new or different.

3 CHAIRMAN GRIFFON: Yes.

4 MEMBER MELIUS: You see what I'm
5 saying?

6 CHAIRMAN GRIFFON: Right. Right.

7 So then it would justify --

8 MEMBER MELIUS: The nice thing
9 about the blind reviews is that it does sort
10 of validate the overall program of sort of,
11 you know, scientific and technical reviews --

12 CHAIRMAN GRIFFON: Well, it might
13 sort of -- I can see your point. Let me try
14 to paraphrase, I think, what you said. Like
15 if we do a blind review of a Savannah River
16 case and we end up having a few quality
17 findings and a few findings that were already
18 on the Savannah River Site Profile matrix,
19 then, basically, we've said, okay, we end up
20 covering these in the one Work Group or in
21 this Committee; and, therefore, this Committee
22 can stay focused on the basic reviews and the

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1 Work Groups doing the Site Profile reviews can
2 stay focused on that. Is that what you're --

3 MEMBER MELIUS: Yes.

4 CHAIRMAN GRIFFON: Yes, okay.

5 MEMBER MELIUS: Now, maybe it
6 picks up a couple of things that weren't on
7 the target --

8 CHAIRMAN GRIFFON: Right. And if
9 it picks up a lot, then that tells us
10 something about what we've missed in the past.

11 MEMBER MELIUS: Yes. Now,
12 obviously --

13 CHAIRMAN GRIFFON: Yes.

14 MEMBER MELIUS: -- how important
15 those were and all that has to be taken into
16 account. They may be important for some cases,
17 not others, et cetera. So it's a --

18 CHAIRMAN GRIFFON: Okay. No, I
19 think it --

20 MEMBER MELIUS: It's almost an
21 evaluation tool rather than a basic part of
22 our dose reconstruction reviews.

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1 CHAIRMAN GRIFFON: I think we can
2 certainly consider that, consider doing more
3 blind reviews. To your second point that you
4 were making about asking -- I was a little
5 confused. You were asking SC&A to go back and
6 follow up on the DRs to see, I think you were
7 saying to see, since we had these findings and
8 resolved these findings, what changes have
9 been made? Is that what you were saying? I
10 wasn't sure --

11 MEMBER MELIUS: Yes, what
12 happened, how good were the basic reviews at
13 picking up what turned out to be problems with
14 a site.

15 CHAIRMAN GRIFFON: Oh, so if NIOSH
16 made changes that we never, that never hit our
17 radar --

18 MEMBER MELIUS: Yes.

19 CHAIRMAN GRIFFON: -- then we
20 didn't pick up those problems. Is that what
21 you're saying?

22 MEMBER MELIUS: Yes. Or, like, in

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1 some cases they're under active review. I
2 mean, it's a dynamic here that may be hard to
3 capture, but you go back and look at, I mean,
4 how many findings became SECs? How many times
5 in a dose reconstruction was an important part
6 of the dose deemed to be technically
7 acceptable, say, the dose reconstruction
8 methods? And it turns out it was, you know,
9 sort of technically acceptable but
10 scientifically unacceptable.

11 CHAIRMAN GRIFFON: Oh, okay. It
12 ended up being the basis for an SEC --

13 MEMBER MELIUS: For an SEC.

14 CHAIRMAN GRIFFON: -- later on. I
15 see. I see what you mean.

16 MEMBER MELIUS: Yes, and we're
17 reporting out that --

18 CHAIRMAN GRIFFON: That the case
19 was okay.

20 MEMBER MELIUS: That the case was
21 okay.

22 CHAIRMAN GRIFFON: Okay. That's

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1 better, more clear the way you said it that
2 time.

3 MEMBER MELIUS: Yes. Now, again,
4 I'm not faulting, you know --

5 CHAIRMAN GRIFFON: Oh, no.

6 MEMBER MELIUS: -- what you're
7 doing, but it is something we need to
8 consider.

9 CHAIRMAN GRIFFON: It's a good way
10 for us to measure. I mean, we've been talking
11 about NIOSH instituting different quality
12 metrics. I mean, this is a good thing for our
13 Subcommittee to do, too.

14 MEMBER MELIUS: Yes.

15 CHAIRMAN GRIFFON: To see where
16 we're at, kind of.

17 MEMBER MELIUS: Yes.

18 CHAIRMAN GRIFFON: I have no
19 problem relaying this to David Richardson.

20 MEMBER MELIUS: I thought, in the
21 discussion at some point, I can't remember
22 where we -- either John Mauro or John Stiver

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1 was suggesting something like that.

2 CHAIRMAN GRIFFON: Oh, no. Now,
3 you just took -- no, I'm just kidding.

4 MEMBER MUNN: All the fun out --

5 CHAIRMAN GRIFFON: Here we were
6 giving you credit for a good idea. No.

7 MEMBER MELIUS: No, no, no. It
8 probably just turned into a bad idea.

9 MR. STIVER: Hey, now.

10 (Laughter.)

11 MEMBER MELIUS: Oh, they are on
12 there. Well, that's nice about a phone call.

13 CHAIRMAN GRIFFON: I think
14 definitely those two points could be useful
15 for our group to consider. And the one, well,
16 both would involve tasking SC&A, additional
17 tasking of SC&A, but, I mean, anybody else on
18 the Subcommittee want to weigh in? I felt
19 like I was kind of talking to Jim there for a
20 while.

21 MEMBER MUNN: Well, you were.
22 You're supposed to.

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1 CHAIRMAN GRIFFON: But, Wanda,
2 please, we want to hear from Wanda. Come on.

3 MEMBER MUNN: No, that's quite
4 alright. The discussion is quite robust
5 enough.

6 CHAIRMAN GRIFFON: She wishes you
7 were here, Jim.

8 MEMBER MELIUS: I'm sure I'll hear
9 about this in Denver.

10 MEMBER CLAWSON: I was trying to
11 follow along there because it seems like what
12 you're saying is we kind of divide up the
13 findings because, as a Subcommittee for the
14 dose reconstruction reviewing this, if it's a
15 quality assurance issue, then it would still
16 fall under the Subcommittee. But if it's a
17 Site Profile issue, then it would go to the
18 Work Group that's over that Site Profile? Is
19 that, basically, what I was hearing or --

20 CHAIRMAN GRIFFON: Well, yes, I
21 think he was saying let's stop for -- not stop
22 but do these blind reviews and possibly just

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1 look back to see. I mean, if we do the blind
2 reviews and it turns out that, you know, most
3 of the scientific issues, as I would call them
4 the more drill-down issues are being captured
5 in the Site Profile Work Groups, then,
6 overall, as a Board, we've got it covered. We
7 don't have to, you know, we don't have to
8 expand our scope on this Subcommittee. We can
9 stick with the basic reviews for the DOE. I'm
10 talking the DOE side now, the basic reviews.

11 MEMBER MELIUS: Yes, I think we're
12 assuming that these are all working
13 appropriately.

14 CHAIRMAN GRIFFON: In our current
15 scheme.

16 MEMBER MELIUS: Yes, current
17 approach. And I'm not saying they're not, and
18 I think they're working, generally, well.
19 But, I think we, our charge isn't, you know,
20 what really is the overall quality of the dose
21 reconstructions. And I think we need to have
22 a better way ourselves of evaluating whether

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1 this overall approach is doing, you know, a
2 good job of doing that because we're supposed
3 to report back to the Secretary and to
4 Congress on how well it's doing overall, not
5 how well are the basic, you know, dose reviews
6 going.

7 CHAIRMAN GRIFFON: I agree with
8 you, Jim.

9 MEMBER MELIUS: Yes. And I think
10 it's been long enough that we need to sort of
11 step back and evaluate are we doing an
12 adequate job?

13 CHAIRMAN GRIFFON: And the second
14 point, Brad, I think that Jim was making, and
15 the second time he explained it to me it made
16 a lot more sense, was to look at, sort of in
17 aggregate, the DR reviews that we've completed
18 and have SC&A -- I mean, I'll add some to your
19 idea, Jim -- to break it out by site and to
20 look back and see what's happened at each one
21 of those sites, be it a PER review or an SEC
22 or modifications in the way dose

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1 reconstructions are done. And I would say we
2 can probably pick off, you know, at least
3 focus on the bigger, we have a lot of
4 Hanford's, Savannah River, you know, the
5 bigger sites. And then just do this sort of
6 follow up to see if, in fact, you know, if we
7 did our reviews and said that, you know, it
8 was an adequate dose reconstruction and then
9 later it ends up being added to an SEC for not
10 able to reconstruct the dose with sufficient
11 accuracy, it's getting at that scientific
12 question that we might have missed in our
13 basic review. So is that --

14 MEMBER MELIUS: Yes.

15 CHAIRMAN GRIFFON: Yes, yes.

16 MR. FARVER: But we're going to
17 miss those in our basic review?

18 CHAIRMAN GRIFFON: Right, right,
19 right. So we're just saying it would be a
20 good, it would be good for us to point that
21 out and then make sure it's at least captured
22 in the Site Profile committees that are

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1 established or wherever. But we also don't
2 want to give the wrong impression that, I
3 guess looking at the numbers, right, Jim, that
4 all these were adequate?

5 MEMBER MELIUS: Yes, and I think
6 we're not accurately reporting back on what
7 the overall --

8 CHAIRMAN GRIFFON: Charge.

9 MEMBER MELIUS: -- charge that we
10 have.

11 CHAIRMAN GRIFFON: That's a little
12 trickier.

13 MEMBER MELIUS: Yes. And, again,
14 I don't think it's, you know --

15 Ms. BEHLING: Mark, this is Kathy
16 Behling. Can I make a comment?

17 CHAIRMAN GRIFFON: Certainly,
18 Kathy. Good to hear from you.

19 Ms. BEHLING: Okay. Just a few
20 things to consider and to maybe give some
21 guidance to SC&A. First of all, the one thing
22 I would ask, because of the process that is

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1 currently in place, we have to assess is there
2 anything that's falling through the cracks?
3 And at least based on where we are today and
4 as we've been discussing, the dose
5 reconstruction process has been identifying
6 that if there are SEC or Site Profile issues
7 out there that are not going to be addressed
8 in the dose reconstruction report but they
9 are, hopefully, being handled by the Work
10 Group and the TBD review group.

11 So I guess I don't, at this point,
12 see anything that's really falling through the
13 cracks based on the overall process we're
14 working on right now. But if we are going to
15 look more closely or have SC&A do more of the
16 blinds, I'm questioning how that's going to
17 really maybe identify some of the things that
18 Dr. Melius is pointing out because, currently,
19 what we have done with the blind reviews is
20 we're using, we've actually did it using two
21 different approaches, but our primary approach
22 is to use the same procedures, the same

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1 guidance documents, as NIOSH is using and
2 reconstruct just as they would, using their
3 procedures and technical documents. We also
4 decided to put a second approach in there,
5 which is a more what John Mauro would call a
6 health physics practical approach to a dose
7 reconstruction, and we've made a comparison.

8 So I'm just wondering if the
9 process that we're using for the blinds that
10 we've established to date is still going to be
11 appropriate to capture what Dr. Melius is
12 suggesting.

13 CHAIRMAN GRIFFON: Yes, and I
14 think -- good point, Kathy. I mean, I
15 remember John describing the two different
16 approaches in his back of the envelope
17 approach versus the, you know, which is based
18 on basic fundamental health physics
19 principles, right? Yes. And, you know, it
20 seems like the first one you described where
21 you're using all the same procedures and
22 everything is more of a quality control blind

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1 review than -- you know, it doesn't get at the
2 other issues.

3 MR. FARVER: Something that might
4 be useful, and Kathy has worked on a couple of
5 these, is where we go back and look at cases
6 that we evaluated once and then has been
7 through the resolution process and NIOSH had
8 made changes, and it's been updated. And we
9 go back and look at updated dose
10 reconstruction and then report on what the
11 changes were. Now, that might be useful
12 because a lot of times we'll see that, yes,
13 they added in those dose and took away this
14 dose or the total dose went down or went up
15 but just never really clear exactly where it
16 came from. That's one of the things we'd
17 evaluate and say, okay, side by side, this is
18 what the original was, this is what the
19 changes were, and then we describe exactly
20 what those changes were.

21 CHAIRMAN GRIFFON: And whether the
22 changes were scientifically defensible? Is

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1 that --

2 MR. FARVER: It goes back -- if
3 they were changed, why were they changed? In
4 other words, was it a technical basis change?

5 You know, what led to that? Was it a change
6 in the neutron/photon ratio numbers or
7 something like that?

8 CHAIRMAN GRIFFON: But it doesn't
9 get into the underlying assumptions
10 necessarily, like was that change --

11 MR. FARVER: If you -- that's
12 correct. Because that would be --

13 CHAIRMAN GRIFFON: Under the Site
14 Profile.

15 MR. FARVER: -- a Site Profile
16 issue.

17 CHAIRMAN GRIFFON: Right, yes.

18 Ms. BEHLING: That's a good point
19 that Doug makes, and I have looked at some of
20 the re-works. I've actually, I think from the
21 eighth set I went back and provided two
22 reports on two different tabs, and we actually

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1 looked at the re-work and determined if all of
2 our findings were taken into consideration
3 during that re-work. And I know that has been
4 an issue that we've questioned.

5 Once we have these dose
6 reconstruction reviews, what happens to those
7 findings? Are they put into the case file so
8 that if there is a re-work those are taken
9 into consideration during that re-work? And
10 so I do think that that is, would also be an
11 interesting and maybe enlightening task for us
12 to do.

13 And the other question that I
14 would ask of NIOSH, and especially since I'm
15 close to this, we just have been following up
16 on PER issues, and one of the questions I
17 guess I would ask is: when does NIOSH, for
18 these TBD changes, decide that they're going
19 to put out a PER? And I'm asking that, I
20 guess, in light of changes that have happened
21 for, say, example the Hanford Technical Basis
22 Document, and there have been some significant

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1 changes in that Technical Basis Document,
2 neutron to photon ratio issues. At what point
3 does NIOSH say now we're going to issue a PER,
4 or, in the case of Hanford, are you waiting
5 because of SEC issues? I guess I'm not clear
6 on that.

7 MR. HINNEFELD: Well, this is Stu.
8 And I don't know that I can speak
9 specifically here, but I think this would
10 apply to Hanford. As nearly as I can recall,
11 since Hanford has been reviewed, there have
12 been technical issues on the table that have
13 not been resolved and are still in resolution.

14 I believe that's still the case today that
15 there's an SEC that will alter, you know, dose
16 reconstruction approach, and I believe there
17 still may be some remaining findings that go
18 past 83.

19 And so our intent is to do the PER
20 once. And so while we may have made some
21 changes in neutron to photon already that
22 would perhaps warrant PER, knowing that we

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1 have these other findings on the board and we
2 will be making, in all likelihood, additional
3 changes, which would then prompt an additional
4 PER if we did one now, we generally hold on to
5 that.

6 So our idea is to do a PER once.
7 And there may be some interim changes on the
8 way to a final change that don't get one.

9 Ms. BEHLING: I understand, and
10 that makes sense. Thank you for that
11 clarification.

12 MR. KATZ: Can I raise a question
13 about that? Jim, this relates to your sort of
14 second plank, the first being the blind dose
15 reconstruction, the second plank being how
16 dose reconstruction reviews relate to quality
17 of science or whatever versus what the Site
18 Profile review has generated. It seems to me
19 what we might need for the Board, I would
20 think, Jim, you're concerned with the Board
21 sort of accurately accounting for that
22 question of how the science was and is

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1 developing, I mean, it seems like then what we
2 really need is for the Work Group responsible
3 for a Site Profile review to be feeding in an
4 account, in effect, related to when we have
5 reports for the Secretary but an account for
6 that particular site of that site resolution
7 process and what quality of science matters
8 were addressed.

9 I mean, in the end, they're always
10 remedied one way or the other, but that's sort
11 of the other part of the story. And if the
12 blind reviews don't indicate that that system
13 is completely broken, then, you know,
14 reporting on that story is sort of the other
15 piece, as to how good the science was.

16 MEMBER MELIUS: Yes. I mean, I
17 think what I'm trying to get at is there some
18 way of one sort of making sure that all this,
19 that we're connecting these different, you
20 know, scientific and technical review
21 functions in a way that assures that we're
22 reporting on it correctly but, more

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1 importantly, that we're giving the appropriate
2 feedback to NIOSH on what they should be doing
3 and so forth. I think we've broken it up so
4 much that we really have no way of keeping
5 track of all that's going on, and I think we
6 have all these different sort of review
7 processes that don't communicate with each
8 other very well.

9 MR. KATZ: Yes. But, in a
10 qualitative sense at least, I think we all
11 probably have a pretty good sense that there's
12 a lot of change that gets done to TBDs as a
13 result of the SEC process of the Board's and
14 the Site Profile review. SEC process being
15 much more energetic just because those are
16 always a priority, to address the SECs. But
17 we have a general sense that there's a lot of
18 PERs, and a lot of TBD revisions are generated
19 out of those processes.

20 MEMBER MELIUS: Yes. And I think
21 we start out under the assumption that the
22 dose reconstruction review process by the

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1 Board would be the way that those would all
2 be, you know, would reflect all of that, and,
3 currently, it doesn't. You know, in fact, it
4 doesn't reflect most of the changes that take
5 place. The changes that have been engendered
6 by the dose reconstruction review are, I want
7 to say minor, but they're certainly less than
8 what's happened from Site Profile and SEC
9 reviews. Now, I think that's expected in a
10 program as technically and scientifically
11 complicated as this, so it's not something
12 where NIOSH has failed or the Board has
13 failed. But I think we need to, if we think
14 we've made all these improvements, we need to
15 have some way of evaluating that and that we
16 make sure we're not missing important issues
17 and that we're reporting on it correctly. And
18 we got to be able to do that with, you know,
19 without having to start all over again and,
20 secondly, without a huge amount of resources
21 going into that.

22 MEMBER MUNN: Well, we can

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1 certainly do that by identifying what we're
2 going to use as a sampling process to sort of
3 keep score, which is probably as good a forum
4 as any for the decision-making on what we
5 might use for a sampling process. I
6 personally would suggest that we use no more
7 than five sites, and that may even be too
8 large, depending upon which sites you're going
9 to choose. If you choose the big five, then
10 you're cutting off another five years of
11 activity and you don't want to do that. So
12 probably two of the large sites and two of the
13 smaller sites would be, in my mind, a
14 reasonable place to start to look at these
15 things. It's just a question of choosing
16 which ones where the most activity might have
17 taken place so that you could say that these
18 are not the most active site groupings that we
19 have, at least. They are among the most
20 active site groupings. That way, you can, in
21 some small degree, bound the other activities
22 by the Board that have been very active.

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1 CHAIRMAN GRIFFON: I guess I
2 missed that completely. I'm not sure why
3 we're sampling five sites.

4 MEMBER MUNN: We had spoken
5 earlier, and we didn't decide to do this, but
6 we talked about the possibility, you know, if
7 you take a look at these things and if we look
8 at one of the sites, we look at some of the
9 cases, look at some of the sites, and we
10 identify where --

11 CHAIRMAN GRIFFON: Right.

12 MEMBER MUNN: -- the findings have
13 been identified, and have these findings
14 resulted in changes in the Site Profile,
15 changes in the procedures, where did the
16 changes occur? If you do it by site, then you
17 have a handle on how you're doing it. As a
18 matter of fact, I don't know how you would do
19 it if you didn't do it by site. How would you
20 develop any kind of statistic at all if you
21 didn't do it by site?

22 CHAIRMAN GRIFFON: Right. No, I

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1 thought you were suggesting to limit it to
2 just a few sites, to look at it that way. I
3 didn't know Doug was suggesting that.

4 MEMBER MUNN: Yes. I'm saying
5 that if we're going to report in the 10-year
6 review that our process has worked in this
7 regard or in this regard or whatever regard we
8 want to choose, whatever way we want to look
9 at it, if we've chosen to look at it in terms
10 of we've taken a look at what changes our
11 program has instituted in each of these cases
12 and we consider those to be emblematic of the
13 entire program because they are either typical
14 sites or larger sites. I'm just looking at how
15 we're going to get to making some judgment.

16 If you are going to make some
17 statements for the Secretary and for the world
18 to see, in terms of our view of what we've
19 done in the program, then we have to have
20 something to point to. We have to have some
21 kind of data that we have to put together. We
22 have agreed that we do not currently have a

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1 mode for tracking the data. If we're going to
2 build such a look, if we're going to have SC&A
3 go out and take such a look, we need to tell
4 them what to look at. That's, essentially,
5 what I'm saying.

6 MEMBER MELIUS: Yes. But what I
7 would say, I mean, I understand what you're
8 getting at, Wanda --

9 MEMBER MUNN: I'm glad you do.

10 MEMBER MELIUS: -- but I would
11 step back or sort of a different road. I'd
12 rather design or modify what we're doing so
13 that in the future, as we go forward, we can
14 sort of, our reporting can better reflect the
15 technical and scientific, our evaluation of
16 the technical and scientific qualities of
17 program. I think where at least I was talking
18 and Mark, I thought, was talking about sort of
19 the sampling of different sites was let's at
20 least take a look at a few sites, maybe even
21 one to start with, where there's been
22 significant Site Profile SEC review whatever

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1 and a significant number of dose
2 reconstruction, individual dose reconstruction
3 reviews, and sort of look back at that
4 universe of dose reconstruction reviews and
5 then see how that interacts with what's
6 happened with the Site Profile procedure, et
7 cetera, reviews that have taken place.

8 CHAIRMAN GRIFFON: I was sort of
9 proposing maybe your second idea, not your
10 blind reviews but take your second idea, Jim,
11 and try it at one or two sites --

12 MEMBER MELIUS: Yes.

13 CHAIRMAN GRIFFON: -- and see what
14 we're -- yes, yes.

15 MEMBER MELIUS: See what's -

16 CHAIRMAN GRIFFON: Not necessarily
17 to --

18 MEMBER MELIUS: Maybe it's not
19 going to be worthwhile. I don't know.

20 CHAIRMAN GRIFFON: Yes. And I
21 wasn't necessarily proposing that that could
22 be extrapolated then to the whole complex.

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1 MEMBER MELIUS: No, no, but it
2 might tell us how we could improve the
3 process. And I think some of the improvement
4 of the process is maybe a way of trying to
5 link back to provide some better linkage
6 between or communication between what's
7 happening with the Site Profile and the
8 individual dose reconstruction reviews, the
9 procedure reviews, et cetera. Because we need
10 some way of bringing that together. Is that
11 the Site Profile Committee, is that the Dose
12 Reconstruction? I don't know. Or is it some
13 other Super Committee, Super Subcommittee or
14 something? I don't know. But I think we need
15 to develop something and start looking at it.

16 MR. KATZ: So I was just saying
17 what I thought Doug was saying earlier is the
18 one thing that comes to mind when you do that,
19 say you do it for Savannah River Site, is that
20 all the dose reconstruction reviews that were
21 done were basic dose reconstruction reviews,
22 right? And so they will have implicitly

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1 assumed that the methods were okay and tested,
2 so they're not going to pick up the same kind
3 of issues that Site Profiles would have --

4 CHAIRMAN GRIFFON: Yes.

5 MEMBER MELIUS: Are the
6 conclusions of those, if there were huge
7 changes in the Site Profiles and SEC, et
8 cetera, then they're giving a false
9 impression.

10 CHAIRMAN GRIFFON: Yes, that's --

11 MR. KATZ: I understand that.

12 CHAIRMAN GRIFFON: -- in terms of
13 the way we --

14 (Simultaneous speakers.)

15 MEMBER MELIUS: There's a dynamic
16 to this that, again, it's a good dynamic.
17 NIOSH, with some help from us, is trying to
18 improve the process. So, yes, the changes are
19 good, but we need to think of a better, an
20 evaluation needs to reflect all that goes on
21 in the program, not just the basic dose
22 reviews.

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1 CHAIRMAN GRIFFON: Right. I think
2 both those notions, the blind reviews and this
3 look-back, or whatever a better term there
4 might be, are useful ideas. I think Kathy
5 raises some things we might have to think
6 through on the blind reviews. I think the
7 first step might be to resurrect the couple
8 cases that we have done and then have a
9 discussion around here of what, you know, if
10 we're going to select more, what's the model
11 we should use, you know, what's the best
12 model.

13 MR. FARVER: Part of what I'm
14 seeing is, when we do a DR review, we're
15 looking at something that was done maybe a
16 year ago. We're looking at a particular time
17 frame and giving you a snapshot of what was
18 done. And I think what's being asked for is,
19 okay, I want to know how things have evolved:
20 how have changes been made, what changes have
21 been made, how would that have affected this
22 case if you looked at that happened a year

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1 ago? And even if there's TBD changes and even
2 if there's SEC issues that have resulted in
3 changes, there may not be a PER issue because
4 they're waiting for additional changes. So
5 it's a moving target, and, you know, all we
6 can do is provide you a look at it at a
7 certain time frame. I don't see how we can
8 incorporate all the changes that could be made
9 when they haven't been made.

10 CHAIRMAN GRIFFON: Right. But I
11 think, you know, the look-back idea is to also
12 get at the question from our Board standpoint
13 of what we're reporting on in the overall
14 scientific validity of the cases. We don't
15 want to have amongst those, say we end up with
16 500 cases and say 100 of those eventually
17 ended up in an SEC, I would say we eliminate
18 those from our statistics, you know. We look
19 at the -- so I think that's what Jim is
20 getting at when he's saying the look-back.
21 It's mainly to see what happened later.

22 MR. FARVER: Okay.

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1 CHAIRMAN GRIFFON: And then if
2 those issues were captured, you know, are they
3 still on the table in the Site Profile review
4 or did they get folded into an SEC? I
5 understand there's going to be some gray area
6 in the middle sometimes, you know. That's why
7 I was saying maybe we try one site and ask
8 SC&A to do this, and then we can, you know,
9 the devil is in the details, I guess. We can
10 see, you know --

11 MR. FARVER: So we look back at
12 past cases that we've already looked at or
13 look back at new dose reconstructions?

14 CHAIRMAN GRIFFON: Look back at,
15 you know, like a group of, say, Hanford cases
16 --

17 MR. FARVER: That we've already
18 looked at once?

19 CHAIRMAN GRIFFON: Yes. And then
20 say, okay, you know, just by the basics of the
21 cases, you can identify whether they would now
22 be in, or they got added to an SEC or

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1 something like that or, you know --

2 MR. FARVER: You could determine
3 if they would be added to an SEC?

4 CHAIRMAN GRIFFON: Right.

5 MR. FARVER: But they may have
6 used different assumptions under a previous
7 TBD.

8 CHAIRMAN GRIFFON: Right.

9 MEMBER MELIUS: That may be, but
10 we need to be able to note that somehow.

11 CHAIRMAN GRIFFON: Yes.

12 MR. FARVER: You may not know --

13 MEMBER MELIUS: We may not know a
14 lot, but we know it's something more now and
15 it wasn't -- and the approach we were using
16 for the basic reviews is missing that, and we
17 need to see how significant that is.

18 MR. FARVER: I'm just trying to --

19 CHAIRMAN GRIFFON: Make sure --
20 yes, I know. Make sure, as Kathy said, it
21 doesn't fall through the cracks completely.
22 If it's captured in other facets of the

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1 program, it's not a problem. I mean, it's not
2 like --

3 MEMBER MELIUS: Well, it is when
4 we're not reporting on it.

5 CHAIRMAN GRIFFON: Right, right,
6 right. Yes. That's right. That's right.
7 But I meant it wasn't a problem in terms of, I
8 feel like, you know, I don't think everybody
9 accepts that what you guys have been doing are
10 basic reviews that are looking mainly at the
11 quality. It's not like we're going to go back
12 and say, well, SC&A missed the boat completely
13 on these reviews. You know, that's not the
14 thrust of this. But we want to make sure that
15 we're not misleading in our reporting out on
16 the overall --

17 MR. FARVER: So, I mean, I can
18 understand. We go back and look at cases and
19 we could tell you what changed from one point
20 to what changed to another point if there have
21 been changes. But if it was, let's say, a
22 Hanford case that was previously done under a

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1 TBD that's two revisions behind, and now
2 there's a new TBD out that would impact this
3 case and may even have a PER issued at some
4 point, we're not going to necessarily know
5 what's going to affect that case because
6 nothing has changed yet.

7 CHAIRMAN GRIFFON: Oh, it hasn't
8 had a PER issued yet.

9 MR. FARVER: Right.

10 CHAIRMAN GRIFFON: So I think
11 those are the ones you'd put, you know, a gray
12 area or whatever. You characterize them that
13 way because you're not sure. And I would
14 argue that a lot of those, you know, you're
15 going to have to use some judgment. But, you
16 know, if they're between 45 and 49 percent and
17 they had significant changes and no PER has
18 been issued yet but seems like there might be,
19 then you say this is in limbo state.

20 MR. FARVER: So we would be
21 looking at older cases, well, two years old,
22 well, anyway, an older case and comparing it

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1 to current documentation?

2 CHAIRMAN GRIFFON: Yes, yes. And
3 maybe we don't start with a Hanford. Maybe
4 there's too many cases.

5 MR. FARVER: Whatever.

6 CHAIRMAN GRIFFON: But, you know,
7 I'm not sure --

8 MR. FARVER: It could change
9 because we've been comparing it to whatever
10 they used and referenced in their dose
11 reconstruction.

12 CHAIRMAN GRIFFON: Oh, yes, I
13 know, I know.

14 MR. FARVER: So now we may be
15 comparing it to a complete set of different
16 documents. I'm just trying to figure out --

17 MR. KATZ: You are comparing, I
18 think you are comparing like the current
19 documentation, the TBD --

20 CHAIRMAN GRIFFON: Well, you're
21 not doing a new review or anything.

22 MR. KATZ: -- documentation would

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1 encompass SEC changes and so on --

2 CHAIRMAN GRIFFON: Right.

3 MR. KATZ: -- if that's already
4 been incorporated. But you'd try to choose
5 those, right?

6 CHAIRMAN GRIFFON: Yes.

7 MR. FARVER: I'm just saying,
8 well, we'd be looking at new technical basis,
9 probably. There's new procedure revisions,
10 new OTIB revisions. So we've got a whole,
11 like I said, a whole set of different
12 documents we'd be looking at.

13 MEMBER MUNN: And how would you
14 not have to do it again?

15 MR. FARVER: You would.

16 MEMBER MUNN: You would have to do
17 it again.

18 CHAIRMAN GRIFFON: Why would you
19 have to review the case again?

20 MEMBER MUNN: Because you wouldn't
21 know how severely those changes would have
22 affected this calculation.

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1 MR. FARVER: Right. You'd have to
2 go back and look at each document and compare
3 it to each calculation.

4 MR. KATZ: But that's only if you
5 want to do quantitative analysis of the case.

6 If you just want to address, qualitatively,
7 whether there were science matters that
8 changed that impacted that case, then you
9 wouldn't have to do that. You would just have
10 to identify --

11 CHAIRMAN GRIFFON: I think the
12 first step is to put them in a bin sort of,
13 yes. Don't do the quantitative.

14 MR. KATZ: And you're just
15 identifying cases for which the science
16 changed from the last cases.

17 MR. FARVER: So any kind of
18 document has been rev'd, there was probably a
19 scientific change, which means it probably
20 affected that case.

21 MEMBER MUNN: Maybe, maybe not.
22 It may not have entered into the case at all.

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1 MR. FARVER: It may not. But if
2 there was a scientific change to it, and that,
3 say, OTIB is referenced in the dose
4 reconstruction, then it's likely that change
5 affected that dose reconstruction.

6 MEMBER MUNN: An awful lot of
7 those changes are just a change in building
8 usage, for example, which I suppose you could
9 identify it by stretching it by saying that's
10 a technical change if people were in that
11 building. But a wording change and the size
12 of the area involved, you know, it's --

13 MR. FARVER: It would depend on
14 why it was changed.

15 MEMBER MUNN: Yes, exactly.

16 MR. FARVER: Okay.

17 CHAIRMAN GRIFFON: Well, yes. I
18 mean, I think that's why we would definitely
19 pick like one site first and try this. But I
20 think the idea is to try to bin these things
21 and say, okay, it appears we've got ten cases
22 that were between 45 and 50 percentile and had

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1 a significant technical change since the time
2 we reviewed it and no apparent PER. You know,
3 we've got ten cases that had a PER, you know,
4 a PER for this issue and were re-run that were
5 between 45 and 50. You know, we have 20 cases
6 that clearly fit into the SEC definition that
7 came later after we reviewed them. So you get
8 a sense of what's happened with all, you know,
9 40 cases from Hanford since we've reviewed
10 them in the first hundred or so. I think
11 that's what Jim is trying to get at. I think
12 you stop short of the quantitative, you know,
13 and you can come back to us and say, to really
14 give you an answer on this it would take a lot
15 -- I mean, maybe that's what you're going to
16 conclude, to really give an answer on this
17 would take a lot of work and maybe spinning
18 our wheels here.

19 MEMBER MUNN: Is this really what
20 we want to find out, or is what we want to
21 find out whether the program overall is
22 working and the appropriate changes that need

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1 to be made are being made in the program? Is
2 that what we're trying to determine?

3 CHAIRMAN GRIFFON: I guess this is
4 to test our own process, you know. Jim is
5 challenging to say, if we're only looking at
6 QA issues, somewhere it has to be picking up
7 the scientific validity of the dose
8 reconstruction process. That's our charter.

9 MEMBER MUNN: I understand that.
10 But do you understand what I'm saying when I
11 say is the answer that this process we're
12 talking about the answer that we really -- are
13 we asking the right question? Is that the
14 question we want answered?

15 MEMBER MELIUS: Well, Wanda, I
16 think the idea is to look at what information
17 we have, what we've done, in a way that can
18 help us decide what the best approach is and
19 the most efficient approach for doing this.
20 And I think it can be done fairly readily
21 through, you know, through this looking back
22 at our past basic reviews and sort of

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1 providing an update of what's happened since
2 then. I think we're going to have to do it on
3 a trial basis and see if it works, maybe fine-
4 tune it, and see if some, the idea is to
5 advise in an ongoing way some better way of
6 reflecting the overall reviews that go on in
7 terms of how we're evaluating the program as
8 charged in the legislation.

9 MR. FARVER: I'll make a
10 suggestion. Now, later on, we're going to
11 look at the Savannah River findings, and I
12 think there's about 56 of those that we looked
13 at. Because we're taking this by site and
14 resolving our old findings, how about if for
15 the next set, and I don't know what site it
16 is, it might be Rocky Flats, we go and, along
17 with those review of the findings, we look at
18 what technical issues have changed since we
19 looked at the Site Profile and things and
20 write a report on that. Plus, we could even
21 include SEC impacts and include that all in
22 the report. And this way, we'll get several

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1 sites as we move along.

2 CHAIRMAN GRIFFON: Well, I would
3 just say let's do that for -- it's a good idea
4 to see how it goes and see, yes. I think
5 that's what Jim was basically asking for and
6 leaving it up to us to think about what site
7 or how to test it, yes.

8 MR. FARVER: If we don't like
9 Rocky Flats, we can pick another one.

10 MR. KATZ: Well, I guess I would
11 just suggest you might want to pick, to start
12 with, to try to figure out if this method
13 works and how it works and how it might need
14 to be refined, if it does, I mean, you might
15 want to choose a site with not an overwhelming
16 number of cases. It makes the work manageable
17 for the pilot effort.

18 CHAIRMAN GRIFFON: Well, he was
19 saying pick a subset of the -- if you were
20 only going to do the Rocky Flats or the next
21 one to come up --

22 MR. KATZ: No, no, whatever, any

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1 site. I'm just saying just choose one with a
2 manageable number of cases so that you make
3 this pilot effort --

4 CHAIRMAN GRIFFON: Yes, don't need
5 one with a hundred cases. I agree.

6 MR. FARVER: Well, it would be
7 less than 57 findings or 56 findings because
8 it would be the next group down. And if it's
9 a certain site that we'd rather not do, then
10 we can pick a different one. I'm just trying
11 to find -- I don't know what the next site
12 was. But somewhere along the lines of --

13 CHAIRMAN GRIFFON: Yes.

14 MR. FARVER: -- the findings that
15 were in the 10th to 13th set that we're going
16 to resolve anyway. Let's just go ahead.

17 MR. HINNEFELD: This is Stu. And
18 just as a maybe related comment, I don't know
19 if it matters to this discussion whether the
20 findings that have been previously identified,
21 you know, the extent of resolution that has
22 been attained because at Rocky Flats, today,

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1 the findings that were raised during the
2 discussion have been largely resolved in the
3 documentation and revisions to documentation
4 have been provided. So that is going to be a
5 relatively unusual situation. For Savannah
6 River, for Hanford, for the gaseous diffusion
7 plants, for most other big sites, there are
8 outstanding issues in, you know, that are out
9 there in the process of resolution, and the
10 ultimate revisions of technical documents,
11 either Site Profile or OTIBs, has not been
12 accomplished because the resolutions have not
13 been accomplished.

14 But at Rocky Flats, up until the
15 most recent Evaluation Report which is just
16 getting going, there were a number of findings
17 and issues, and there was a large degree of
18 resolution and a lot of technical document
19 changes because of that. And those are in
20 place, so I don't know if that matters or not.

21 It's just something that sets Rocky Flats
22 apart from most other sites.

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1 CHAIRMAN GRIFFON: Because of the
2 Work Group Chair? Is that --

3 MR. HINNEFELD: I believe that's
4 probably it.

5 (Laughter.)

6 CHAIRMAN GRIFFON: I wouldn't have
7 guessed that, to be honest with you.

8 MEMBER MELIUS: On that note, I
9 got to run to another meeting. Thank you all.

10 CHAIRMAN GRIFFON: Thanks for your
11 input, Paul. How about Paul's turn now?

12 Thanks, Jim.

13 MEMBER MELIUS: And continue your
14 robust review activities.

15 MEMBER MUNN: Thank you. Have fun.

16 CHAIRMAN GRIFFON: We will, we
17 will. Okay. Now, that we have that on the
18 table. Well, I don't know that we have to
19 decide. I think one action which I was
20 supposed to do for this meeting is to put the
21 blind reviews back on the table, the ones that
22 you already submitted to the -- so let's just

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1 put them on as an agenda item and bring it up
2 for discussion again because I think we do
3 have to sort out the issues that Kathy was
4 raising, which is, if we have the expectation
5 that Jim had of using those blind reviews to
6 sort of test our own process, then the one
7 method versus the other might be important to
8 decide on.

9 MR. FARVER: And do you also want
10 to look at our reports on the cases we looked
11 at a second time, the ones that Kathy wrote up
12 reports on?

13 CHAIRMAN GRIFFON: Yes, those sort
14 of re-works. Were they, we tasked you with
15 that, right?

16 MR. FARVER: Yes.

17 CHAIRMAN GRIFFON: Yes. I mean,
18 are they in our regular matrices? Is that
19 just sort of the ongoing work?

20 MR. FARVER: Yes. There were
21 several findings for each of the cases. We
22 reviewed it. There were lots of changes made,

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1 and it wasn't always clear what changed. So
2 you tasked us to go look at the new redone
3 dose reconstruction and compare it to the
4 original and report back on what was changed.

5 CHAIRMAN GRIFFON: Yes.

6 MR. HINNEFELD: This is Stu. When
7 was that, roughly when was that report
8 submitted by Kathy?

9 Ms. BEHLING: It was submitted --
10 excuse me, this is Kathy. I think March 26th,
11 2012.

12 MR. HINNEFELD: Okay. Thank you.

13 Ms. BEHLING: You're welcome.

14 CHAIRMAN GRIFFON: Yes. I mean, I
15 don't know about prioritization. The blind
16 reviews definitely on the agenda, the reworks,
17 I'm just not sure because I don't want to
18 shift, we keep shifting priorities on NIOSH,
19 too. You know, we're selecting the Savannah
20 River cases to front-load, you know.

21 MR. FARVER: Well, I mean, there
22 really wasn't anything for them to do. We

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1 just looked through the report, because all we
2 did was look at the two and say, okay, this is
3 what --

4 CHAIRMAN GRIFFON: Yes. Well,
5 they'd have to be at least ready to discuss --

6 MR. FARVER: Sure.

7 CHAIRMAN GRIFFON: -- your
8 findings, right?

9 MR. FARVER: Sure. And it was
10 just two cases.

11 CHAIRMAN GRIFFON: Oh, it was just
12 two. Okay.

13 MR. FARVER: Yes.

14 CHAIRMAN GRIFFON: So maybe we can
15 prioritize those. Let's save that for when we
16 get to the -- they're in the 8th and 9th
17 matrix sets, I assume?

18 MR. FARVER: Yes.

19 CHAIRMAN GRIFFON: Yes. So maybe
20 we'll bring up the numbers and prioritize
21 those for discussion next time.

22 MR. FARVER: Sure.

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1 CHAIRMAN GRIFFON: All right.

2 MR. KATZ: So those are reworked
3 cases?

4 MR. FARVER: Yes.

5 CHAIRMAN GRIFFON: So then the
6 blind reviews will be in the discussion and
7 then possibly the reworks on the agenda next
8 time, and this notion about the DR look-backs,
9 as I'll refer to them, maybe we should wait
10 until we talk about Savannah River and maybe
11 what's coming next. But I like the idea that,
12 Doug, both you and Ted said, that if we're
13 going to do it, it's like a trial thing, and
14 we should select a, maybe not even a site but
15 a subset of your cases from a site, you know,
16 that are currently under review, maybe. Maybe
17 that's the best model. And I think that would
18 be, you know, a way to go forward in this and
19 sort of test what hidden things are going to
20 come up. Alright. So we'll save that for the
21 agenda in a few minutes.

22 I think our next item is going to

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1 be selecting cases, right? We wanted to move
2 that up.

3 MR. KATZ: Yes, that's critical to
4 get done today.

5 CHAIRMAN GRIFFON: And can we --
6 Dave, when do you have to leave?

7 MEMBER KOTELCHUCK: Yes, I'm going
8 to leave at a quarter of three, unfortunately.

9 CHAIRMAN GRIFFON: Okay.

10 MR. KATZ: It's 2:25 right now.

11 CHAIRMAN GRIFFON: I want to get
12 the --

13 MEMBER KOTELCHUCK: I could talk
14 with you later just to get a report on the
15 last part of the meeting.

16 CHAIRMAN GRIFFON: Yes, yes, sure.
17 I was just going to say, can we take a quick
18 break and then, hopefully, Dave -- the case
19 selection process doesn't usually take us that
20 long. You'll be here for a few minutes to
21 look --

22 MEMBER KOTELCHUCK: Yes, although

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1 let me ask you this: if there's any
2 consideration about me, why not go ahead until
3 2:45 and then you take your break?

4 CHAIRMAN GRIFFON: Okay. All
5 right. We can do that.

6 MEMBER MUNN: Fine with me, if you
7 can do it.

8 CHAIRMAN GRIFFON: Yes. Let's do
9 that then. Let's pull up -- I just didn't
10 have the document in front of me.

11 MEMBER KOTELCHUCK: Sure. Thanks.

12 MEMBER MUNN: So 10 through 13, is
13 that what we're doing?

14 CHAIRMAN GRIFFON: No, we're
15 looking at --

16 MR. FARVER: Case selection, I
17 believe.

18 CHAIRMAN GRIFFON: -- case
19 selection, yes. Can you -- what is that
20 document called?

21 MEMBER MUNN: This document might
22 contain information from --

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1 MR. KATZ: No, he's looking for
2 the file name.

3 MEMBER MUNN: Yes, I know.

4 CHAIRMAN GRIFFON: The file name,
5 yes. She was joking. Well, let me ask it
6 another way. Who sent it out?

7 MEMBER MUNN: Doug.

8 CHAIRMAN GRIFFON: It came out
9 from Doug?

10 MR. FARVER: No, this is case
11 selection for --

12 MR. HINNEFELD: Case selection.
13 This is our 16th set.

14 CHAIRMAN GRIFFON: So did it come
15 out --

16 MR. KATZ: Stu sent it.

17 CHAIRMAN GRIFFON: Stu sent it?

18 MR. KATZ: I think Stu sent it
19 originally, and I think I re-sent it.

20 MR. CALHOUN: Isn't it called DR
21 sub --

22 MR. KATZ: It's got a long

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1 complicated name.

2 MR. CALHOUN: Yes. Mine says copy
3 of, but my guess is it says DR Subcommittee
4 review, underscore, 16th set --

5 MR. KATZ: Yes, yes.

6 MEMBER CLAWSON: -- space, most
7 recent --

8 MR. KATZ: All that, yes.

9 MR. FARVER: When did you send
10 that, Ted?

11 MR. KATZ: Oh, I don't have a --
12 I'm not open to my CDC account, so I can't
13 tell you.

14 MR. FARVER: Two weeks --

15 MR. KATZ: Well, I resent it
16 recently, but it was sent at least two weeks
17 ago by Stu, two to three weeks ago by Stu.
18 Yes, I sent them to your CSB address.

19 CHAIRMAN GRIFFON: Yes. I can't
20 find it. Do you have it handy right now out,
21 Ted?

22 MR. KATZ: I'd need a --

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1 CHAIRMAN GRIFFON: Ten-year
2 review.

3 MEMBER MUNN: I've got mine out,
4 but I'm not --

5 CHAIRMAN GRIFFON: Yes, that's
6 going back to --

7 MR. KATZ: Hold on a second.

8 CHAIRMAN GRIFFON: You think it
9 was a couple of weeks ago?

10 MR. KATZ: Stu sent it originally
11 maybe even three weeks ago, and then I
12 forwarded it to you the next --

13 CHAIRMAN GRIFFON: Oh, here it is,
14 here it is. I've got it. It's way back,
15 7/23.

16 MR. KATZ: Okay. That's about
17 three weeks ago.

18 CHAIRMAN GRIFFON: Yes, yes, okay.
19 All right. Okay. So can you give us an
20 overview, Stu?

21 MR. KATZ: No, that I can't. I
22 can only send it to your CDC address.

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1 MEMBER KOTELCHUCK: It's not
2 familiar to me.

3 MR. KATZ: Although I actually
4 thought I had Zaida -- Zaida sent to you in a
5 package. I thought I had Zaida send it to you
6 in a package, too.

7 CHAIRMAN GRIFFON: Okay. So,
8 anyway, Stu, can you just give us an overview
9 on this? How many cases are in this?

10 MR. HINNEFELD: There are 70.

11 CHAIRMAN GRIFFON: Seventy?

12 MEMBER MUNN: Who sent it out on
13 the 17th?

14 MR. HINNEFELD: There are 70 cases
15 on the list. They represent, I believe, the
16 most recently completed cases that have been
17 adjudicated by the Department of Labor. At
18 least on the date we initiated this process,
19 which goes back a couple of months probably,
20 we took the hundred or so or two hundred,
21 however many it was, most recently completed
22 cases that we had sent to DOL up to some

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1 point, we didn't send the ones we sent
2 yesterday because we knew those weren't
3 adjudicated, and asked them: which of these
4 have been finally adjudicated? They answered
5 us.

6 We took the 70 most recent. We
7 then sent them to Oak Ridge or ORAU team for
8 the addition of the final four or five data
9 fields that have to do with job title, work
10 location. All of those things all allow even
11 yet more specific information, so the more
12 data you put in here the more privacy-
13 protected it becomes. The original list
14 didn't have, you know, none of these lists
15 have the same identification, no names, no
16 Social Security numbers, no NIOSH tracking
17 numbers, in order to try to keep them somewhat
18 anonymous. But they're still, we've still
19 been advised by OGC that they should be
20 treated as Privacy-Act-protected.

21 So that is what we've attempted to
22 do is find the most recent ones possible and

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1 fill out the data that's there, it's got the
2 normal selection data, the site, cancer
3 location, PoC, number of years worked, things
4 like that.

5 CHAIRMAN GRIFFON: And it looks
6 like they're sorted by the date approved
7 almost. They go back to September 2011, yes.

8 MR. HINNEFELD: Yes. It could be
9 that we sort them by that. Yes, that could
10 be. I don't know if -- there's a selection
11 number on there, which is an artificial
12 number. If those are not in order, then that
13 means we sort them --

14 CHAIRMAN GRIFFON: Oh, yes, they
15 are not in order.

16 MR. HINNEFELD: If those are not
17 in order, that means we sort them by date
18 selected.

19 MEMBER MUNN: By date --

20 MR. HINNEFELD: By date approved.

21 MEMBER MUNN: Date approved is
22 what it is.

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1 MR. HINNEFELD: Then that's the
2 date that the draft or the date that we
3 approved the dose reconstruction.

4 MEMBER MUNN: Yes, right.

5 MR. HINNEFELD: It has nothing to
6 do with the date of the adjudication.

7 MEMBER MUNN: Because they start
8 with the most recent and go back to 9/22/2011.

9 CHAIRMAN GRIFFON: Our goal,
10 again, is to pre-select for the Board, and
11 then the Board does the tasking. Right,
12 right.

13 MEMBER MUNN: And what criteria do
14 we choose to use for the 16th set?

15 CHAIRMAN GRIFFON: I think we
16 probably use the same criteria we've been
17 using all along, yes, yes. But, again -- yes.

18 MR. FARVER: I'll bring this up at
19 -- sometimes, during our one-on-one dose
20 reconstruction conversations with the Board
21 Members, there's been some concerns between
22 the time we get the case to look at and

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1 sometimes there's an SEC issued in the interim
2 and sometimes there's questions, well, should
3 we even have looked at this? So I don't know
4 if you may want to take that into
5 consideration when selecting the sites. If
6 you know that there's SEC issues out there
7 that could have a large impact, maybe we don't
8 want to look at that site in this set.

9 MEMBER MUNN: That covers a lot of
10 folks, Doug.

11 MR. FARVER: I'm just bringing it
12 up.

13 MEMBER MUNN: Just saying.

14 MR. KATZ: It's always been sort
15 of a mixed -- we've never applied a bright
16 line like that --

17 MR. FARVER: We have not.

18 MR. KATZ: -- for good reason,
19 because you still do dose reconstruction per
20 site.

21 MR. FARVER: I was just bringing
22 the concern up.

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1 MR. KATZ: Right.

2 CHAIRMAN GRIFFON: Alright. So
3 these are -- yes, go ahead.

4 MEMBER CLAWSON: Just to make sure
5 that I'm on the right one, the first one is
6 2012-06?

7 MEMBER MUNN: 636, yes.

8 MEMBER CLAWSON: Okay. I just
9 wanted to make --

10 MEMBER MUNN: 636 is the first
11 one.

12 CHAIRMAN GRIFFON: Yes, I'll just
13 refer to the last three numbers because they
14 sorted them by date of approval.

15 MR. HINNEFELD: Yes. And the
16 selection ID, the 2012-06, just means that we
17 pulled this case in June of 2012, we pulled
18 this whole population. The last three digits
19 are actually the identifying number.

20 MEMBER CLAWSON: And I just
21 noticed a lot of this and didn't want to give
22 away any other stuff.

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1 MR. HINNEFELD: Yes, there's
2 nothing Privacy-Act-protected about the
3 selection ID. That's completely artificial.
4 It was assigned through this process. Nothing
5 protected about selection ID.

6 CHAIRMAN GRIFFON: Okay. So going
7 down these --

8 MR. KATZ: Your goal is to select
9 a number, I think. So you have 70 cases, and
10 your goal is to recommend a set of about 25, I
11 think, is the normal set size.

12 MR. FARVER: And we've had all
13 sorts of, everything from 20 up to 40.

14 MR. KATZ: That was one unusual
15 case where we doubled the set, but I think the
16 normal set size has been about 25, right?

17 MEMBER MUNN: I think that's
18 close.

19 MR. FARVER: Yes, 20 to 40. A lot
20 of it depends on what assigned sets you have
21 to pick from. I know, like, sort of times
22 we've had smaller sets, and we've picked

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1 smaller numbers.

2 MR. HINNEFELD: I forgot that
3 there's also a PoC selection in here. These
4 are like 40 to 52 percent.

5 MEMBER MUNN: That's what we see.

6 CHAIRMAN GRIFFON: Ted, do you want
7 to keep the scorecard on these?

8 MR. KATZ: Sure. Yes.

9 CHAIRMAN GRIFFON: Okay. I mean,
10 the first one I see, 192.

11 MEMBER MUNN: Yes, that's a
12 familiar one in all respects.

13 MR. KATZ: What site is it?

14 MEMBER MUNN: Seed materials
15 production.

16 CHAIRMAN GRIFFON: Yes. Although
17 very low years worked, but yes.

18 MEMBER MUNN: Just in case you
19 didn't know that.

20 CHAIRMAN GRIFFON: Yes.

21 MEMBER MUNN: I saw 453.

22 CHAIRMAN GRIFFON: You going on

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1 down then?

2 MR. KATZ: You might want to, I
3 mean, I think something that the Board
4 sometimes asks you is why did you choose the
5 one you chose, so you may want to make a
6 record of why it is you're specifying the ones
7 you do.

8 MEMBER MUNN: There are --

9 (Simultaneous speakers.)

10 MR. KATZ: -- starting with
11 Fernald.

12 MEMBER MUNN: -- more recent. One
13 of them is the site location.

14 CHAIRMAN GRIFFON: Right.

15 MEMBER MUNN: One of them is the
16 type of cancer. One of them is the PoC.

17 CHAIRMAN GRIFFON: Yes, I think we
18 can -- yes.

19 MEMBER MUNN: And one of them is
20 the work decade, the number of years worked.

21 CHAIRMAN GRIFFON: Yes. Actually,
22 before 453, 673, which is a Hanford lung

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1 cancer.

2 MEMBER MUNN: Well, I can't speak
3 to that.

4 CHAIRMAN GRIFFON: I know that's
5 not something that we haven't done before, but
6 it's 45 years of work, fireman, carpenter, you
7 know. Yes. The next one, also, I think is
8 interesting.

9 MEMBER CLAWSON: What number was
10 that, Mark?

11 CHAIRMAN GRIFFON: 673.

12 MR. KATZ: So I have 192, 673.

13 CHAIRMAN GRIFFON: Well, the next
14 one is -- of course, it's skin.

15 MEMBER MUNN: You don't want to do
16 675?

17 CHAIRMAN GRIFFON: I don't know.
18 It could be just a multiple, but, you know --

19 MEMBER MUNN: There's a bunch of
20 those.

21 CHAIRMAN GRIFFON: Yes. I think
22 I'm down to your 453 then.

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1 MR. KATZ: What site again?

2 CHAIRMAN GRIFFON: It's gaseous
3 diffusion? It doesn't say.

4 MEMBER MUNN: K-25 --

5 CHAIRMAN GRIFFON: Oh, okay, I cut
6 it off when I shrunk this all down. Let's
7 see.

8 MEMBER MUNN: How about --

9 CHAIRMAN GRIFFON: We've got 680.

10 MEMBER MUNN: 680 is not bad.

11 CHAIRMAN GRIFFON: 680 is Rocky
12 Flats.

13 MEMBER MUNN: Let's do that one.
14 And then I marked 618.

15 MR. FARVER: 618.

16 MR. KATZ: What's that site?

17 MEMBER MUNN: On multiples.

18 MR. FARVER: Multiple sites.

19 MEMBER MUNN: No, it says Fermi.

20 MR. KATZ: Fermi.

21 CHAIRMAN GRIFFON: 618, yes.

22 MR. KATZ: And for folks who

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1 aren't, Board Members who aren't speaking up,
2 if you have one in between these that you
3 think, speak up, by all means.

4 MEMBER MUNN: I'd say 647.

5 MR. KATZ: And that's what type?

6 CHAIRMAN GRIFFON: Yes, I'm just
7 looking at --

8 MEMBER MUNN: Oak Ridge.

9 CHAIRMAN GRIFFON: 666. What's
10 this site here?

11 MEMBER CLAWSON: Wang Chung?

12 CHAIRMAN GRIFFON: Wah Chang.

13 MEMBER CLAWSON: Wang Chung
14 tonight, that's all I remembered.

15 MR. KATZ: Is that affirmative?

16 CHAIRMAN GRIFFON: Have we ever
17 done that? I don't think --

18 MR. FARVER: I don't think we --

19 MEMBER MUNN: We actually have.

20 CHAIRMAN GRIFFON: Oh, we did?

21 MEMBER MUNN: We've done one. I
22 only remember one.

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1 CHAIRMAN GRIFFON: I don't
2 remember. Kathy, do you know if we selected
3 this site? Kathy is good at this.

4 DR. BEHLING: I'm sorry. I didn't
5 hear the site again.

6 MR. KATZ: Wah Chang.

7 CHAIRMAN GRIFFON: Wah Chang. Wah
8 Chang. W-A-H C-H-A-N-G.

9 MEMBER MUNN: It means the Great
10 Leap Forward, in case you don't know.

11 CHAIRMAN GRIFFON: I don't
12 remember.

13 DR. BEHLING: I don't see that.

14 CHAIRMAN GRIFFON: I think we
15 added that one. Kathy says she doesn't see it
16 on her list.

17 MR. KATZ: Okay.

18 MEMBER MUNN: Alright. It's on
19 now, the devil's number.

20 CHAIRMAN GRIFFON: Where is that
21 site anyway?

22 MEMBER MUNN: It's in Albany,

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1 Oregon. Right on I-5.

2 CHAIRMAN GRIFFON: Okay. Never
3 heard of it.

4 MEMBER MUNN: What about 647? The
5 next one?

6 CHAIRMAN GRIFFON: Are they
7 respiratory? Yes.

8 MR. KATZ: 647. That's what?

9 CHAIRMAN GRIFFON: It looks okay
10 to me.

11 MEMBER MUNN: Oak Ridge.

12 CHAIRMAN GRIFFON: Oak Ridge, yes.

13 MR. FARVER: And then there's 644.

14 CHAIRMAN GRIFFON: Yes, what about
15 227?

16 MR. KATZ: Wait. Are we saying
17 644 or --

18 CHAIRMAN GRIFFON: No, that was
19 ahead of mine.

20 MR. FARVER: 644, the Hanford,
21 Rocky Flats, Savannah River.

22 CHAIRMAN GRIFFON: Yes, that one

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1 is good, 644.

2 MR. KATZ: So 644 is on.

3 CHAIRMAN GRIFFON: Just to go
4 back, 647 I was saying -- no, it's 227.

5 MEMBER MUNN: Got it.

6 CHAIRMAN GRIFFON: And it's Oak
7 Ridge, gaseous diffusion, but it's also Y-12
8 also. Alright.

9 MEMBER MUNN: Alright. 214.

10 CHAIRMAN GRIFFON: 214. Have we
11 done this DeSoto complex, before we get to 214
12 one?

13 MEMBER MUNN: No, I'm not familiar
14 with that if we have.

15 MR. HINNEFELD: DeSoto is one of
16 the Santa Susana. It's an associate facility
17 of Santa Susana.

18 CHAIRMAN GRIFFON: Oh, okay, okay.
19 Alright, alright. Then we'll skip that. And
20 I'm looking for 214 now. Yes, okay, 214.

21 MR. KATZ: What's that?

22 CHAIRMAN GRIFFON: Fernald.

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1 MEMBER CLAWSON: Feed material.

2 CHAIRMAN GRIFFON: And the years,
3 yes. It's the 80s.

4 MEMBER MUNN: Right.

5 CHAIRMAN GRIFFON: Alright.

6 MEMBER MUNN: The next one I see
7 is 604, site and time frame.

8 MR. KATZ: What site? Sorry.

9 MEMBER MUNN: Albuquerque.

10 CHAIRMAN GRIFFON: Yes.

11 MR. FARVER: Did you say 604,
12 Wanda?

13 MEMBER MUNN: Yes, I did.

14 MR. HINNEFELD: And it also has
15 Los Alamos, Nevada Test Site, Sandia.

16 CHAIRMAN GRIFFON: Yes. Alright.
17 Wah Chang again, huh?

18 MEMBER MUNN: Not the same.

19 CHAIRMAN GRIFFON: They must have
20 done all the cases from this site all at once
21 because there's three or four of them.
22 Alright.

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1 MEMBER MUNN: Probably just
2 working the site.

3 CHAIRMAN GRIFFON: Yes. I mean,
4 we're really going to do a mini Site Profile
5 review on that anyway so --

6 MR. KATZ: Let's go to you and
7 Dave.

8 MR. HINNEFELD: It's going to take
9 me a while to get started here.

10 MEMBER CLAWSON: Can I suggest
11 one, but I'm conflicted, or --

12 MR. KATZ: No, you can't.

13 MEMBER CLAWSON: No, I can't?

14 MR. KATZ: You cannot.

15 MEMBER CLAWSON: Okay. Can Mark?

16 CHAIRMAN GRIFFON: I'll look for
17 it, Brad.

18 MEMBER MUNN: 628?

19 CHAIRMAN GRIFFON: Yes, 628 I
20 think is a good one.

21 MR. KATZ: What site?

22 CHAIRMAN GRIFFON: It's Idaho.

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1 We're almost to the end, I think, here. How
2 about 653?

3 MEMBER MUNN: 5-3? Oh, yes,
4 that's interesting.

5 MR. KATZ: What site?

6 CHAIRMAN GRIFFON: Fernald.

7 MEMBER MUNN: Fernald and Mound.

8 CHAIRMAN GRIFFON: And Mound, yes.

9 MEMBER MUNN: If we want to do a
10 Mound site, it can be 698.

11 CHAIRMAN GRIFFON: 648 is
12 Bethlehem Steel?

13 MEMBER MUNN: High PoC.

14 CHAIRMAN GRIFFON: Yes, it's skin
15 cancer, so this is sort of looking at the non-
16 listed --

17 MEMBER MUNN: Long-term
18 employment.

19 MEMBER CLAWSON: I like 621.

20 CHAIRMAN GRIFFON: It would be a
21 look at the partial review, right? Yes, okay.

22 MR. KATZ: Bethlehem Steel?

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1 CHAIRMAN GRIFFON: Yes, 648. I'm
2 sorry, Brad. What were you saying?

3 MEMBER CLAWSON: 621, just above.

4 CHAIRMAN GRIFFON: Yes, Fernald
5 again, right?

6 MEMBER CLAWSON: Yes.

7 MEMBER MUNN: Didn't we just do
8 one of those?

9 CHAIRMAN GRIFFON: Yes. This one
10 is in the '90s. We don't have many in that
11 decade. Let's say 621 for now. The other
12 thing to remember is that we're going to bring
13 these back to the full Board so they can cut
14 some off or add some on.

15 MR. KATZ: Yes. You may want to
16 check with Kathy, I think, who keeps a record
17 on how many cases we've done --

18 CHAIRMAN GRIFFON: By site, yes.

19 MR. KATZ: -- and how we are in
20 terms of --

21 CHAIRMAN GRIFFON: Yes. We've
22 never been close. I've checked in on that

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1 occasionally, but we've never been close.
2 Yes.

3 MEMBER MUNN: She's provided us
4 even --

5 CHAIRMAN GRIFFON: Even on ones I
6 thought we were close, like Savannah River, we
7 weren't, yes, yes.

8 MEMBER CLAWSON: What about 199?

9 CHAIRMAN GRIFFON: Yes. Again,
10 this would be a non-listed cancer situation.
11 Mallinckrodt. So 199, you got that one?

12 MR. KATZ: Got 199.

13 CHAIRMAN GRIFFON: I hear a lot of
14 -- I'm not sure who's -- okay. And I'm
15 winding down toward the end here. Look at
16 640. Anybody interested in that one?

17 MEMBER CLAWSON: That one -- I
18 can't comment.

19 CHAIRMAN GRIFFON: Yes. That one
20 you can't comment on. 640, yes or no,
21 anybody?

22 MEMBER MUNN: Covered.

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1 CHAIRMAN GRIFFON: That's covered
2 you think? Alright. I'm not particularly
3 wedded to it. The thyroid cancer kind of --
4 anyway --

5 MR. KATZ: We need about double
6 the number we have.

7 MEMBER MUNN: If you want a really
8 low PoC.

9 MR. KATZ: Just to let you know
10 where you are.

11 CHAIRMAN GRIFFON: Yes. Well,
12 we've got about six left to go through, so
13 we're not going to get there.

14 MEMBER MUNN: So we're going to do
15 649?

16 CHAIRMAN GRIFFON: Yes, 649.

17 MR. KATZ: 649, which is what
18 site?

19 CHAIRMAN GRIFFON: And 584, I
20 think that's okay, the Pacific Northwest one.
21 I mean, 552 and 646, both Savannah Rivers,
22 but, you know, we have a lot of those.

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1 MEMBER MUNN: 552 probably, higher
2 PoC.

3 CHAIRMAN GRIFFON: Yes, they're
4 both in the 50s.

5 MEMBER MUNN: Yes.

6 CHAIRMAN GRIFFON: Okay. Just --

7 MR. KATZ: 5-5-2?

8 CHAIRMAN GRIFFON: Just 552?

9 MEMBER MUNN: Yes.

10 CHAIRMAN GRIFFON: Alright.

11 MEMBER MUNN: How about 627, site,
12 long term.

13 CHAIRMAN GRIFFON: Is that the
14 last one?

15 MEMBER MUNN: Yes.

16 CHAIRMAN GRIFFON: Yes.

17 MR. KATZ: What site?

18 CHAIRMAN GRIFFON: BWXT.

19 MR. KATZ: BWXT. And how many do
20 we have, Ted? That's everything, that's all
21 of them.

22 MEMBER MUNN: Twenty.

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1 MR. CALHOUN: That's what I got, I
2 got 20.

3 MR. KATZ: Yes, there's 20.

4 CHAIRMAN GRIFFON: Okay.

5 MR. KATZ: So that's what you got?

6 CHAIRMAN GRIFFON: Yes. Well, I
7 don't know that we skipped many borderline
8 ones. Maybe two or three but --

9 MR. CALHOUN: Can I ask what you
10 were looking for? I have no clue what your
11 criteria was.

12 CHAIRMAN GRIFFON: That's good.

13 MEMBER CLAWSON: That, if we told
14 you, we'd have to shoot you.

15 MR. CALHOUN: Oh, okay. That's all
16 right. No problem.

17 MEMBER CLAWSON: Basically, the
18 ones we're interested in or that certain parts
19 of the site, the years, it's kind of just,
20 there's no science to it whatsoever.

21 MR. CALHOUN: That's what I like.

22 (Laughter.)

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1 CHAIRMAN GRIFFON: It's a random
2 process. No, I mean, part of the ones we went
3 by are a lot of the skin cancer ones. I think
4 they're not as interesting, you know. The
5 only reason the PoC is so high probably is
6 that it's multiple skins, and we've seen those
7 a lot. And tried to look at the, you know,
8 these are all supposed to have a component of
9 best estimate in them, but sometimes only part
10 of it is the best estimate.

11 MEMBER MUNN: Yes.

12 CHAIRMAN GRIFFON: Yes.

13 MR. KATZ: So, Mark, do you want
14 me to run through the numbers for you?

15 CHAIRMAN GRIFFON: I've got them
16 highlighted. I mean, you can --

17 MR. KATZ: No, no.

18 CHAIRMAN GRIFFON: Alright. So
19 we'll, if that's okay, this will be the
20 Subcommittee proposal to the Board at the
21 upcoming meeting, and, hopefully, we'll get it
22 tasked out from there. Okay, alright. Now

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1 can we take our break?

2 MEMBER MUNN: Yes, now.

3 CHAIRMAN GRIFFON: Let's take ten
4 minutes or so, and then we'll start looking at
5 the individual reviews. I think we're going
6 to start with the Savannah River group. Take
7 ten.

8 (Whereupon, the above-entitled
9 matter went off the record at 2:51 p.m. and
10 resumed at 3:07 p.m.)

11 MR. KATZ: And we're back. Do we
12 have you, David? Dr. Richardson?

13 MEMBER MUNN: We're now to one
14 David here.

15 MR. KATZ: Yes.

16 MEMBER POSTON: When I worked for
17 the Assistant Secretary, I had the honor of
18 speaking to the DMSB many times. Can't
19 remember --

20 CHAIRMAN GRIFFON: Yes, the nature
21 of the job.

22 MR. KATZ: David Richardson, are

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1 you back on the line with us? Maybe not.

2 CHAIRMAN GRIFFON: Help me with --
3 the next item on the agenda is the SRS cases
4 that you identified from the --

5 MR. FARVER: Yes. I sent this out
6 to everyone about the middle of last week.

7 CHAIRMAN GRIFFON: And what is the
8 name of it?

9 MR. FARVER: It should be
10 something like SRS issues, resolutions.

11 CHAIRMAN GRIFFON: SC&A responses,
12 10th through 13th, SRS findings. Okay.

13 MEMBER CLAWSON: Mark, if you want
14 a paper one --

15 CHAIRMAN GRIFFON: No, I got it, I
16 got it.

17 MR. FARVER: When you're ready,
18 let me know.

19 CHAIRMAN GRIFFON: Okay. So now
20 here is the one thing I'm concerned about in
21 starting this process is that how I dovetail
22 these back into the original matrix or how we

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1 track these or keep control of all these
2 matrices, yes.

3 MR. FARVER: We don't know, yes.

4 CHAIRMAN GRIFFON: Okay.

5 MEMBER MUNN: We don't know now.

6 CHAIRMAN GRIFFON: Good answer.

7 Because I don't see the number that would
8 correspond to the numbers in the regular
9 matrices, 10 through 13.

10 MR. FARVER: Any number should
11 still be the same.

12 MEMBER MUNN: 226.1?

13 MR. FARVER: Yes, finding numbers
14 are still the same. I changed some of the
15 columns.

16 CHAIRMAN GRIFFON: Wait. Okay.
17 Oh, okay, I'm sorry. I was looking at the
18 introduction piece. I was looking at your
19 first couple of pages. Yes, so here's the
20 matrix. Okay.

21 MR. FARVER: Yes. And the reason
22 I did that was because I thought it provided

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1 more useful information than some of the other
2 columns, but we can go through it --

3 CHAIRMAN GRIFFON: Yes, okay.

4 MR. FARVER: -- if the format is
5 not okay. And there were 56 findings from 17
6 Savannah River cases in the 10th through 13th
7 sets. We wrote up our findings. NIOSH has
8 responded to them. And then we have, we came
9 up with a response to their response,
10 basically, how we evaluated their response.
11 And then we kind of suggested action. That
12 was the basis of this.

13 And then there's another column
14 for NIOSH to either say, yes, that's okay, or,
15 no, that's not okay but we like this idea. So
16 there will be a case for another response.
17 Thought process was, with one or two
18 iterations we could resolve almost all these
19 findings.

20 CHAIRMAN GRIFFON: Right.

21 MR. FARVER: Okay. And as it
22 stands now, just after a once through, there

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1 were, out of 56 findings, we recommended
2 closing 29 findings, have proposed actions for
3 18 findings. That leaves 8 findings for the
4 Board, and, actually, the one that I had down
5 for subject matter discussion we've already
6 closed. That was closed when we talked about
7 the Category A findings.

8 CHAIRMAN GRIFFON: Alright. When
9 you say you've closed, we've closed, you're
10 recommending that the -- when you say closed
11 here, that means --

12 MR. FARVER: That's our
13 recommendation.

14 CHAIRMAN GRIFFON: Okay, alright.
15 So the Work Group has not closed it?

16 MR. FARVER: They have not.
17 That's why it's just a suggested action.

18 CHAIRMAN GRIFFON: Okay.

19 MR. FARVER: Also in that matrix
20 is the category that we identified when we
21 went through the 10 through 13 sets. So as we
22 took a closer look, there was some of these

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1 findings that we re-categorized, and those are
2 listed at the bottom of page three, too. A
3 few, not too many.

4 So that's the gist of it. And
5 even in our recommendations, you'll see a lot
6 of times it's update the TBD, you know.
7 They're doing a lot of, making a lot of
8 assumptions that were not contained in the
9 TBD, and this is a case where it hasn't been
10 revised since 2005 for one reason or another.

11 But the changes they're making, it's not that
12 we disagree with the changes, it's they're not
13 documented well and, if you look at the TBD,
14 they are not what the TBD says. They are
15 somewhat different. They come from a
16 different document. So that's the gist of a
17 lot of suggested actions.

18 MEMBER MUNN: They come from a
19 different document.

20 MR. FARVER: In other words, they
21 might pull out a phrase out of IG-001.

22 MEMBER MUNN: Oh, okay.

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1 MR. FARVER: And this comes into -
2 -

3 MEMBER MUNN: Something other than
4 the technical --

5 MR. FARVER: Technical basis. So
6 the technical basis will give you one number,
7 and IG-001 will give you a different number.

8 MEMBER MUNN: A different number.
9 Probably not too different but different
10 enough to be different.

11 MR. FARVER: It's different enough
12 that when you're reviewing it you can't tell
13 where it came from.

14 MEMBER MUNN: Okay.

15 MR. FARVER: That's okay, but
16 somewhere it needs to get all combined. Now,
17 how would you like to proceed? First off, I
18 mean, is this format okay? Because this is
19 what I propose using for the closing out of
20 these backlog of findings because it's
21 something that's very easy to look at and it
22 kind of sums up the actions, responses. And

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1 how it merges into your matrix I'm not sure
2 yet.

3 CHAIRMAN GRIFFON: Yes.

4 MEMBER MUNN: Well, and that's my
5 only complaint.

6 CHAIRMAN GRIFFON: Back to the
7 database.

8 MEMBER MUNN: It would be nice to
9 have it in the same format, but it's hard to
10 try to switch back and forth from the matrix
11 that we started with to this matrix.

12 MR. FARVER: Well, that was
13 difficult, too, because it was, those matrices
14 were broken down by set, 11th, 12th, 13th, and
15 so forth, and now we're combining things.

16 MEMBER MUNN: You're doing 10 to
17 13.

18 MR. FARVER: So you'd be jumping
19 around from matrix to matrix anyway.

20 MEMBER MUNN: It's probably the
21 only legitimate way to do it.

22 CHAIRMAN GRIFFON: And the only,

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1 the category differences are what? I mean,
2 the one thing I noticed is you took out the --
3 there used to be two rankings.

4 MR. FARVER: I did, because it
5 wasn't always filled in --

6 CHAIRMAN GRIFFON: It's not
7 apropos to what you're doing here, yes. It
8 was usually, I mean, we didn't fill it in
9 until the end of the hundred cases really.

10 MR. FARVER: Correct.

11 CHAIRMAN GRIFFON: Right.

12 MR. FARVER: Which is why I tried
13 to whittle it down to columns that were
14 useful.

15 CHAIRMAN GRIFFON: Otherwise, I
16 don't see a problem with the columns
17 necessarily.

18 Ms. BEHLING: This is Kathy
19 Behling. Just one suggestion I would make on
20 this matrix, could we have at the very end of
21 the matrix the list of categories again, what
22 A represents and B represents?

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1 MR. FARVER: Okay. That's up in
2 table one, Kathy.

3 Ms. BEHLING: Okay. Sorry.

4 MR. FARVER: That's okay. But,
5 you know, I could put it as something.

6 MEMBER MUNN: Yes, it's good.
7 It's just every time we change anything,
8 somebody like me is going to complain just
9 because you changed it. That's all right.

10 MR. FARVER: I'll expect that from
11 you.

12 MEMBER MUNN: It's in my job
13 description. Wanda will complain.

14 MR. FARVER: Okay.

15 CHAIRMAN GRIFFON: All right. So
16 why don't we, I think the format is okay.

17 MR. FARVER: And, in general, for
18 observations, I didn't put any action down
19 because, normally, they don't have to respond
20 to observations.

21 CHAIRMAN GRIFFON: That was one
22 question I was going to ask is why are we,

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1 should we even track the observations, or
2 should they just be in your report?

3 MR. FARVER: Yes.

4 CHAIRMAN GRIFFON: If we're not
5 going to take any action on them, why bother?

6 MR. FARVER: We haven't in the
7 past.

8 CHAIRMAN GRIFFON: Right, right.

9 MR. FARVER: So that's why I did
10 not put an action in there for those.

11 CHAIRMAN GRIFFON: Alright.

12 MR. SIEBERT: So what you're
13 saying, as a person who does a lot of these
14 responses, is we don't need to --

15 CHAIRMAN GRIFFON: Well, I mean,
16 by calling them observations, I think SC&A is
17 suggesting that they don't require a
18 resolution.

19 MR. FARVER: Right. They're not
20 to the level of a finding. And this is
21 another thing we go over when we talk with the
22 Board Members: is this an observation to you

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1 or is this a finding, what's your opinion?

2 CHAIRMAN GRIFFON: Right.

3 MR. FARVER: And make changes
4 accordingly.

5 CHAIRMAN GRIFFON: So I would say,
6 if you end up at a place where you're calling
7 it a finding, include it in the matrix.
8 Otherwise, just leave it in your base report.

9 MR. FARVER: Okay.

10 CHAIRMAN GRIFFON: I would say
11 because --

12 MR. SIEBERT: So they don't go
13 into the matrix anymore?

14 CHAIRMAN GRIFFON: Right.

15 MR. SIEBERT: Okay.

16 CHAIRMAN GRIFFON: That doesn't
17 mean NIOSH can't read --

18 MR. SIEBERT: We will --

19 (Simultaneous speakers.)

20 MR. SIEBERT: -- and consider, I'm
21 sure.

22 MR. FARVER: And that's all it is.

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1 It's really a note to them that we came across
2 something that might be of interest to you.

3 CHAIRMAN GRIFFON: Yes. I think
4 we have enough to sort through. We don't need
5 to, you know, clutter our matrices up.

6 MEMBER MUNN: I'm pretty sure.

7 MR. FARVER: Okay.

8 CHAIRMAN GRIFFON: Alright. So
9 then I guess we can start --

10 MR. FARVER: Okay. We'll see.
11 The first finding is 255.1, failure to account
12 for internal dose from fission products. This
13 goes back to one of these previously
14 identified findings about, oh, fission
15 products, whole body counts, urine, and it's
16 one we resolved back in eight, I believe, for
17 Savannah River. It has to do with OTIB --

18 MR. SIEBERT: It's using the
19 chooser tool for picking the most claimant-
20 favorable radionuclide for a whole body count
21 in that method.

22 MR. FARVER: Yes. And it's also,

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1 it also applies to urine data or something
2 that it was still consistent. And I think
3 that's how the finding, the previous one, was.

4 CHAIRMAN GRIFFON: Okay. I don't
5 see a -- NIOSH suggested action.

6 MR. FARVER: So what we came up
7 with --

8 CHAIRMAN GRIFFON: Shouldn't that
9 last column be "Board suggested action?"

10 MR. FARVER: Well --

11 CHAIRMAN GRIFFON: Or
12 "Subcommittee suggested action?"

13 MR. FARVER: Let's say we go down
14 farther and we have an SC&A action or
15 suggested action that says: "provide SC&A with
16 the neutron dose calculations." You know,
17 that's our suggested action?

18 CHAIRMAN GRIFFON: Right.

19 MR. FARVER: And NIOSH would agree
20 or disagree, and then they would say,
21 "calculations provided to SC&A on such a such
22 date." And then we have all these actions

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1 tracked, and that gives us the information to
2 close out that after we review the file. So,
3 like I say, I dreamed all this up --

4 CHAIRMAN GRIFFON: And I think this
5 was actually in the other matrix is when we
6 switched the header, because that last column
7 should be, you know, "Subcommittee action" or
8 "suggested Subcommittee action" because
9 sometimes I put in there "SC&A will review",
10 blah blah blah --

11 MR. FARVER: Yes.

12 CHAIRMAN GRIFFON: -- so it can go
13 either way. It's an action for --

14 MR. FARVER: It can.

15 CHAIRMAN GRIFFON: -- either one,
16 yes. That's all I'm saying. So in there, I
17 was just going to say, you know, the
18 Subcommittee or --

19 MR. FARVER: Okay.

20 CHAIRMAN GRIFFON: -- you know, to
21 summarize like I usually do, NIOSH can, you
22 know, revise --

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1 MR. FARVER: My thinking when I
2 put the NIOSH suggested action was let's say
3 we come up with our response that, I don't
4 know, we come up with something. They don't
5 quite agree with it, but they're going to say,
6 "We don't agree with it but how about this?"
7 So they would suggest something for us to
8 consider.

9 CHAIRMAN GRIFFON: Yes.

10 MR. FARVER: That was my thinking
11 about having them have input on that one, not
12 so much the Subcommittee closing something.

13 MR. KATZ: We still need a final
14 column --

15 CHAIRMAN GRIFFON: Yes, I think
16 there should be a column of closure, yes.

17 MR. FARVER: Okay.

18 MR. SIEBERT: And I was going to
19 say, what we've done in the past is for
20 additional NIOSH responses or the like, we
21 just put another heading, another entry under
22 the NIOSH response dated --

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1 CHAIRMAN GRIFFON: Dated. Yes,
2 that works.

3 MR. SIEBERT: I mean, just track
4 it that way, yes. I don't think we need an
5 extra column as such.

6 MR. FARVER: And the only reason I
7 didn't consider that too much was that if
8 somehow we can get this into a database, then
9 that's tough to add to a field after the field
10 has been in there. But we'll have to work
11 that part out.

12 CHAIRMAN GRIFFON: I mean, I would
13 just say "suggested action," we can leave it
14 there for now, but "suggested action," I
15 think.

16 MR. FARVER: At the very end?

17 CHAIRMAN GRIFFON: Well, instead
18 of "NIOSH suggested action," just "suggested
19 action."

20 MR. KATZ: Why isn't it just
21 "Subcommittee decision" or whatever? Because
22 you're the ones, you decide whether it's

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1 closed or whether it's in abeyance, whatever.
2 So just "status whatever," or just "status"
3 because you close them or you don't close
4 them.

5 CHAIRMAN GRIFFON: But what we've
6 always put there in the past is, you know,
7 "closed, no further action," or "closed, NIOSH
8 will revise TBD blah blah blah", and then
9 there's a holder that we do to make sure they
10 -- you know. Remember how we always do that?

11 MR. KATZ: So just "Board action"
12 anyway. "Subcommittee action."

13 CHAIRMAN GRIFFON: That's what I
14 just said, didn't I?

15 MR. KATZ: I don't know what you
16 said.

17 CHAIRMAN GRIFFON: Yes, instead of
18 "NIOSH action," "Subcommittee action."

19 MEMBER MUNN: Well, in the past,
20 we've used "program action." In the past, we
21 used "program action." Either way, it's fine.
22 I'm just saying.

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1 CHAIRMAN GRIFFON: Or just
2 "suggested action." Yes, whatever. I don't
3 think it's just NIOSH. That's all I was
4 saying.

5 MEMBER MUNN: No.

6 CHAIRMAN GRIFFON: Okay.

7 MEMBER MUNN: We had a Board
8 action column and a program action column.

9 CHAIRMAN GRIFFON: Okay. So for
10 this one anyway, we're going to say "closed,
11 no further action," right? NIOSH used the --
12 I'm trying to get the term -- the radionuclide
13 chooser TBD. SC&A accepts this approach. No
14 further action.

15 MR. FARVER: What? For your
16 wording?

17 CHAIRMAN GRIFFON: Yes. NIOSH
18 used the radionuclide chooser TBD. Is there a
19 number for that?

20 MR. SIEBERT: Well, the TBD
21 itself, the Savannah River TBD, has a portion
22 -- tool is what you were thinking, right?

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1 CHAIRMAN GRIFFON: Tool, yes.

2 MR. SIEBERT: It has just a
3 portion that describes that you can use the
4 most claimant-favorable radionuclide from the
5 whole body count, and then there's a chooser
6 tool to do so.

7 MR. FARVER: I could go back and
8 look up what finding it was back in Section 8.

9 CHAIRMAN GRIFFON: That's okay. I
10 just want to be sort of specific. NIOSH uses
11 the radionuclide chooser tool referenced in
12 SRS TBD. SC&A agrees with this, no further
13 action. Right?

14 MR. FARVER: Yes.

15 CHAIRMAN GRIFFON: Okay.

16 MR. FARVER: Two observations.
17 I'm down to 256.1, incomplete accounting of
18 neutron dose. A single neutron dosimetry
19 result of zero in 1995. It should have been
20 caught, which would have allowed them to apply
21 missed neutron dose, but it was not. So this
22 falls under a QA issue, but I don't know that

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1 there's any action we can take, so we would
2 suggest closing it. Now, if you want to get
3 into more of, well, how did you miss it, is it
4 a data entry error or is it some other type of
5 error, that's different.

6 CHAIRMAN GRIFFON: No, I think
7 it's closed, yes.

8 MR. FARVER: Okay.

9 CHAIRMAN GRIFFON: NIOSH
10 acknowledged it, yes. Okay.

11 MR. FARVER: We've moved down to
12 page three, and the next one is 257.1, failed
13 to assign occupational medical doses. This is
14 where medical doses, at the time the DR was
15 performed, they did not have the medical
16 records. After the DR was performed, the
17 medical records arrived, but changes were not
18 made. In other words, there was no action
19 taken that I know of when those records
20 arrived to start the change process. And as
21 the timing works out --

22 CHAIRMAN GRIFFON: I'm sorry. I'm

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1 just looking back. I was catching up.

2 MR. FARVER: Sure. Okay.

3 CHAIRMAN GRIFFON: 256,
4 observation number four. And I know, you
5 know, we're making this administrative
6 decision, not to look at --

7 MR. FARVER: Okay.

8 CHAIRMAN GRIFFON: -- actions on
9 observations, but how is a -- this observation
10 reflects a previous -- this is what caught my
11 eye, this observation reflects a previous
12 finding that has been resolved. It's
13 observations about a CATI report, right? How
14 could that have been previously resolved?

15 MR. SIEBERT: I believe this is,
16 yes, this is the more generalized issue of
17 things were stated in the CATI. The SEC
18 review stated that it could have been
19 explained more clearly in the dose
20 reconstruction, so I believe that what Doug
21 was mentioning was that overall process --

22 MR. FARVER: That overall process.

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1 MR. SIEBERT: -- has been
2 discussed in the Subcommittee.

3 CHAIRMAN GRIFFON: All right, got
4 it.

5 MR. FARVER: Which is probably why
6 it was made an observation and not a finding.

7 CHAIRMAN GRIFFON: Okay. That's
8 fine. Okay, sorry. Yes, I agree with that.
9 Then you were saying --

10 MR. FARVER: This is down to
11 257.1, the medical records arrived after the
12 dose reconstruction had been performed but
13 before DOL issued their final decision letter.
14 So what do you do? I mean, that's what it
15 comes down to.

16 CHAIRMAN GRIFFON: Right.

17 MR. FARVER: And there's no
18 indication in the records that the medical
19 records were considered. Now, they have been
20 considered since then. But the concern is,
21 once you get records after you've completed a
22 dose reconstruction, what's the process?

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1 MR. CALHOUN: Well, now it's that
2 PAD process.

3 MR. FARVER: Let's say you have a
4 short time frame like this where the medical
5 records come in February; DOL is about to
6 issue a letter. Do you, like, get on the
7 phone and say, "hey, we just got records in --
8 "

9 MR. CALHOUN: I don't know that we
10 have a process in place that would catch it
11 that quick.

12 MR. FARVER: Well, I mean, if you
13 catch it. I mean, if you say records arrived,
14 okay, I've got records, what do I do?

15 MR. CALHOUN: If we got records
16 before the case was sent to Labor, I can't say
17 for sure we would do it. I would hope that we
18 would pull the case back, because we can do
19 that with the push of a button.

20 MR. SIEBERT: Grady, this one, the
21 medical X-rays came in two months after we
22 submitted it to Labor.

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1 MR. FARVER: It came in after
2 Labor.

3 MR. CALHOUN: Okay. Yes, well,
4 right now what we've got is every time, every
5 time we get additional information after the
6 case has gone final, we review the case. And
7 I wrote down some stats that we've gotten. We
8 just started doing this three or four months
9 ago. We've reviewed 1,070 cases where we've
10 had additional information that has come in.
11 Eight of those cases are likely to flip to
12 comp, and as soon as we get the information
13 that those cases could flip to comp, we
14 request a rework from Labor.

15 MR. FARVER: I understand. I mean,
16 this probably isn't going to flip anything.
17 It was just a matter of, in general, what is
18 the process. I know this was a short window -
19 -

20 MR. CALHOUN: Right. We did not
21 have a process until recently.

22 MR. FARVER: Okay. I mean, is

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1 there a mechanism just to pick up the call and
2 say, Labor, we've got records in, we know
3 you're about to issue a final decision letter,
4 and you may want to hold off until we can look
5 at this case again?

6 MR. CALHOUN: If it was between
7 there, we would. I don't think that -- right
8 now, our process is, as they come in we're
9 looking through them, and we've got a big
10 backlog. So I'm not going to tell you we've
11 got something right now that we can do it
12 because I'm not sure it would happen that way.

13 MR. FARVER: But it's not like as
14 it comes in it would trigger something. It
15 comes in and goes into review --

16 MR. CALHOUN: Right. And I'll
17 tell you what, I think I just need -- I don't
18 know when the trigger happens, if there's a
19 periodic review of the document or if, as soon
20 as it's uploaded, there's a flag. I just
21 don't know right now.

22 MR. FARVER: Okay.

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1 MR. CALHOUN: Do you know, Scott?

2 MR. SIEBERT: At the moment, it's
3 more of a batch process,

4 MR. CALHOUN: Yes, that's what I
5 thought.

6 MR. SIEBERT: The overall batch was
7 about 1500. And as soon as we're getting that
8 batch worked out, which is in the next few
9 months, then we'll start the next -- look at
10 the next batch like that. So it's more of a
11 chunk as we get to -- but then again, each
12 time period it's going to get shorter because
13 now we have a process in place for doing it
14 and catching up with it, as opposed to the
15 backlog.

16 MR. FARVER: And the reason I made
17 this a Subcommittee issue, because I wasn't
18 sure that was something that I'm going to
19 resolve talking to them. I mean, we could
20 discuss each other's thoughts, but it's more
21 or less how the Subcommittee wants to handle
22 that, do nothing or close this or wants more

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1 information. So in those cases, I just put
2 down "Subcommittee issue."

3 MEMBER MUNN: It's not clear that
4 once someone picks up that record and
5 identifies the case file, it's not clear that
6 there's an automatic ding telling you this one
7 has already gone or this one is on the deck
8 ready to go. Does that exist?

9 MR. CALHOUN: No.

10 MEMBER MUNN: That warning flag?

11 MR. CALHOUN: No.

12 MEMBER MUNN: And is there a way
13 that we could get it to exist, without really
14 and truly driving everybody nuts?

15 MR. CALHOUN: I think we should
16 look at it. It seems like there should be
17 something there. What happens is, this whole
18 process is document-driven, and, once you
19 upload a document into the NOCTS file for case
20 number 1234, it seems like there could be --

21 MEMBER MUNN: There ought to be.

22 MR. CALHOUN: -- something that

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1 says, hey. So we can look at that and see if
2 we can make that more of a real-time thing.

3 MEMBER MUNN: We just need
4 something to notify the person who is
5 inputting into the system the fact that this
6 information has arrived. There just needs to
7 be a ding.

8 MR. CALHOUN: Right. I agree.
9 I'll check into that. It seems like one of
10 our crack staff could do something like that,
11 but I'll check.

12 MR. KATZ: Are we closing --

13 MR. FARVER: I think there would
14 be an action on the NIOSH part of it.

15 CHAIRMAN GRIFFON: Yes, NIOSH is
16 going to check into having an automated
17 notification. Is that sort of how to describe
18 it? Yes.

19 MR. CALHOUN: Make it closer to
20 real time.

21 CHAIRMAN GRIFFON: Okay. And
22 we'll just keep it open, pending, you know,

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1 what you find out on that. And I think if you
2 find out, yes, we can do it, it's going to
3 take our computer guys a little while to
4 figure it out, and then we can close it.

5 MR. FARVER: Okay.

6 CHAIRMAN GRIFFON: Okay.

7 MR. FARVER: 257, observation one,
8 just for your information. This was
9 identified in the Site Profile review, so it
10 was not made a finding. It was just, you
11 know, reiterating an observation. So that
12 just gives you an example of what's a Site
13 Profile issue.

14 276.1, inappropriate assignment of
15 73 to 76 neutron energy years and doses.

16 CHAIRMAN GRIFFON: Wait, wait,
17 wait. Let's just go back to that. I'm glad
18 you pointed that out, observation one, given
19 the discussion with Knolls. Do we know if
20 this is captured in the current Site Profile
21 matrix?

22 MR. FARVER: Well, that hasn't

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1 been revised. Well, it's in the Site Profile
2 review --

3 CHAIRMAN GRIFFON: Yes.

4 MR. FARVER: -- from our last
5 review, which was many years ago.

6 CHAIRMAN GRIFFON: So it was
7 looked at as a finding --

8 MR. FARVER: Yes.

9 CHAIRMAN GRIFFON: Okay.

10 MR. FARVER: This is one of those
11 outstanding issues.

12 CHAIRMAN GRIFFON: Yes. And you
13 said it was. Yes, I'm sorry. I didn't see
14 that. Captured in the SC&A -- MR.

15 FARVER: So when you look at this, would this
16 impact cases?

17 CHAIRMAN GRIFFON: Yes. Okay.

18 MR. FARVER: If we could just get
19 that Work Group to get going.

20 CHAIRMAN GRIFFON: Yes.

21 MR. KATZ: Which Work Group?

22 MR. FARVER: Savannah River.

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1 MR. KATZ: Yes, that's the
2 Chairman.

3 CHAIRMAN GRIFFON: It has a good
4 record at Rocky Flats, though. Okay. Go on
5 to the next one.

6 MR. FARVER: We have 276.1,
7 inappropriate assignment of neutron energy,
8 year, and dose. Okay. The doses, the neutron
9 energies reported in the dose reconstruction
10 report are not the same ones that are in the
11 IREP table. And this confuses me because,
12 based on what Scott presented to us, the
13 tables in the dose reconstruction report are
14 generated by the tools. That's nothing the
15 dose reconstructor would do. It's already
16 generated, so I don't know why they would be
17 different. I also don't know why it would not
18 get caught in a peer review. You know, you
19 should be looking and see if the energies are
20 the correct energies.

21 Also, just as another note, the
22 files that we had to look at did not have the

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1 neutron dose calculations.

2 MR. SIEBERT: I have a question
3 about that. They're in the tools that are in
4 the claim.

5 MR. FARVER: The numbers in the
6 IREP table, the final IREP table, those
7 numbers are not in any of the tools that are
8 contained, I could not find them in any of the
9 workbooks that are contained in the files that
10 we had. In other words, there might be
11 several iterations, but whatever the final one
12 was, it wasn't there.

13 MR. SIEBERT: Could it be -- are
14 you saying that a tool didn't spit out exactly
15 what the IREP sheet had, or the IREP sheet --
16 any single one of those lines you could not
17 find in the tool?

18 MR. FARVER: The first part.

19 MR. SIEBERT: Okay. There's a
20 reason for that.

21 MR. FARVER: Okay.

22 MR. SIEBERT: If you look in this

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1 case, there are two tools, there are two
2 external tools. The reason for that is this
3 is a breast cancer, and that is back in the
4 time frame when we were just beginning to
5 implement the OTIB-17 shallow dose
6 methodologies. The complex-wide tool that was
7 used for this, for the best estimate portion
8 of it, did not have OTIB-17 incorporated in it
9 yet. So for the shallow portions of it, the
10 normal Savannah River tool had to be run to
11 create those portions of the calculation.

12 So at that time, unfortunately,
13 it's just one tool wouldn't do it all, so we
14 had to take two tools. And if you look, and
15 you may want to do this because the neutron
16 calculations are in there, everything that's
17 in the final IREP sheet should be from one of
18 those two tools.

19 MR. FARVER: I agree. And that's
20 why I said I could not find the neutron
21 numbers that were in the final IREP sheet in
22 any of the workbooks that were provided.

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1 MR. SIEBERT: Okay. That wasn't
2 the question I initially asked, but okay.

3 MR. FARVER: I'm familiar with the
4 shallow dose problem because we've come across
5 that before, where the shallow doses are done
6 with one tool and other doses are done with
7 another. That's okay. It's when we look
8 through all of them we still can't find them.

9 MR. SIEBERT: I will look at those
10 and see what the issue is.

11 CHAIRMAN GRIFFON: So you have a
12 SC&A suggested action here.

13 MR. FARVER: Yes, just so we can
14 look at the calculations, if you just provide
15 that workbook. It may have been that it was
16 in a different workbook, and that workbook
17 just wasn't part of the files that were sent
18 to us or were put out there on the drive.

19 MEMBER MUNN: Sounds like the most
20 likely reason.

21 MR. FARVER: That has happened
22 before.

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1 MR. SIEBERT: See, the neutron
2 would not be done separately. It's done in
3 those specific workbooks. So the two
4 workbooks that are in there should reflect the
5 neutron calculations that are in there. So
6 I'll take a look --

7 MR. FARVER: Okay.

8 MR. SIEBERT: -- and do a
9 comparison.

10 MR. FARVER: And then, of course,
11 the other one is, well, how did that table get
12 one heading when the IREP table had a
13 different heading?

14 CHAIRMAN GRIFFON: Oh, the energy
15 ranges?

16 MR. FARVER: Energy levels.

17 CHAIRMAN GRIFFON: Yes.

18 MR. FARVER: Neutrons.

19 MR. SIEBERT: And that may have to
20 do with the fact that separate tools were used
21 and iterative form to create the report, and
22 then the latest version may not have made it

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1 into the table for the headings. I'm not
2 going to say that that's the issue, but I
3 could see that that would be the issue as to
4 where that could have come from.

5 MEMBER MUNN: Yes. You'll have to
6 look at it.

7 CHAIRMAN GRIFFON: Okay. Yes,
8 NIOSH will review that. Next?

9 MR. FARVER: 276.2 is the same
10 thing, only it's for missed neutron dose, I
11 believe. I believe it's supposed to be for
12 missed neutron dose.

13 CHAIRMAN GRIFFON: So NIOSH will
14 look at that as well.

15 MR. SIEBERT: Same thing, yes.

16 CHAIRMAN GRIFFON: Okay.

17 MR. FARVER: 276.3 is the
18 incorrect assignment of '57 and '85 X-ray
19 doses. The doses for '57 and 1985 were
20 incorrectly assigned. Based on the actual
21 records, only one PA chest X-ray examination
22 should have been assigned in '57 and no chest

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1 X-ray should have been assigned in '85.
2 That's another QA concern, you know, what's
3 going on, but we can't -- suggested action is
4 we close it.

5 CHAIRMAN GRIFFON: Yes, no further
6 action. QA item, no further action. Okay.

7 MR. FARVER: 276.4, incomplete
8 assignment of fission product doses. Okay.
9 This is more of a minor one. It has to do
10 with the start dates, and is this the CADW
11 one?

12 CHAIRMAN GRIFFON: Yes, one of the
13 pieces of it.

14 MR. FARVER: One of the pieces.
15 In other words, the dose reconstruction review
16 comes up with a date for intakes of, let's
17 say, from a mid-month to a mid-month or mid-
18 year to mid-year, but the CADW program
19 operates from beginning of year numbers, not
20 specific dates. Dose-wise, it's not
21 significant. It is more just the fact that
22 the dates were different between the files and

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1 the DR review.

2 So, now that we understand that,
3 it's really no action.

4 CHAIRMAN GRIFFON: And it's
5 identified as a quality assurance item, right?

6 MR. FARVER: Well, yes, they feel
7 they should have caught that.

8 CHAIRMAN GRIFFON: Yes, yes, but
9 no further action.

10 MR. FARVER: No. And then just a
11 couple observations. I don't know if you want
12 to go through them or not. Probably not.

13 And then on the top of page eight,
14 we have 277.1. And this is: the shallow
15 photon dose conversion factor in the dose
16 report is not consistent with IG-001. Okay.
17 And, in effect, it is consistent with IG-001,
18 but it is not part of the dose conversion
19 factors listed in Appendix A, and it is part
20 of Table 4.1.A, which talks about special dose
21 conversion factors for plutonium for 20 keV
22 photons.

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1 Okay. So now we have a Technical
2 Basis Document that says less than 30 keV. We
3 go to look up the dose conversion factor in
4 IG-001 in Appendix A, and we find the less
5 than 30 keV dose conversion factor, but it's
6 not the one in the dose reconstruction. Okay?

7 So, I mean, that's our process. And that's
8 because they took it from Table 4.1.A, which I
9 don't even have a problem with that. But
10 somehow there needs to be a connection between
11 the technical basis and, you know, that table
12 4.1.A. So put something in the technical
13 basis that says, "for these plutonium
14 facilities you can use the 20 keV values found
15 in Table 4.1.A."

16 MR. SIEBERT: Well, I'm just
17 thinking the guidance already exists in OCAS
18 IG-001. And, I mean, you can put the, just
19 refer to the exact same guidance again in a
20 TBD, but, in effect, what we need to do is
21 then any site that used plutonium we need to
22 specifically call that out in those TBDs when

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1 the guidance is already in OCAS IG-001.

2 MR. FARVER: Well, the confusion
3 is, because you are -- and I don't remember
4 the table that's in the TBD, I think it's two
5 tables where it lists the energy, different
6 energies for the different facilities,
7 different photon energies. It doesn't say 20
8 keV. It says less than 30 keV. Now, even
9 though 20 is less than 30, I'm saying it's
10 confusing because you're expecting a less than
11 a 30 keV dose conversion factor. But that's
12 not what you use; you use a 20 keV. I'm not
13 saying it's correct or incorrect. I'm just
14 saying there needs to be a connection between
15 those two somewhere that says it's okay to do
16 that.

17 MR. CALHOUN: Well, yes, we'll
18 have to look at that one. What I'm thinking
19 is we're binning them because of the IREP
20 inputs. Are we not?

21 MR. SIEBERT: Correct.

22 MR. CALHOUN: That's why we bin

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1 them, because there's no 20 keV option. It's
2 less than 30, the option.

3 MR. SIEBERT: Right. We use that
4 in the less than 30 bin for plutonium
5 facilities.

6 MR. CALHOUN: Yes. So I'd have to
7 see if there's actually, I mean, is there a 25
8 keV or a 30 keV DCF that we're worried about
9 confusing that with?

10 MR. FARVER: There are, Appendix
11 A, you have a --

12 MR. CALHOUN: Of IG-001.

13 MR. FARVER: Of IG-001. You have
14 the less than 30 keV dose conversion factor.

15 MR. CALHOUN: Correct.

16 MR. FARVER: Correct. Okay.
17 Those are not the same values as in Table
18 4.1.A.

19 MR. CALHOUN: In the TBD?

20 MR. SIEBERT: No, that's also
21 still in IG-001.

22 MR. FARVER: In IG-001.

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1 MR. SIEBERT: It's all in IG-001.

2 MR. CALHOUN: Okay.

3 CHAIRMAN GRIFFON: What's in that
4 table?

5 MR. FARVER: That's the 20 keV.

6 CHAIRMAN GRIFFON: Right. Okay.
7 That's what I thought.

8 MR. FARVER: And then you go to
9 your Technical Basis Document, which mentions
10 nothing about 20 keV. It just says less than
11 30 keV.

12 CHAIRMAN GRIFFON: Right.

13 MEMBER MUNN: And if your eye is
14 looking for 20 --

15 MR. CALHOUN: I'll have to look.
16 I'm not going to just say we're going to
17 change the TBD to say less than 20. I'd
18 rather remove the less than 20 or 20 from
19 someplace else and keep everything less than
20 30.

21 MR. FARVER: You don't even have
22 to say you're going to use less than 20. What

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1 you could --

2 MR. CALHOUN: Or less than 30.

3 MR. FARVER: Or less than 30. You
4 could say something in the TBD like a little
5 asterisk at the bottom saying, "for plutonium
6 facilities, it's appropriate to use the values
7 in Table 1.A from IG-001."

8 MR. CALHOUN: Okay. Let me look at
9 that.

10 MR. FARVER: Just make the link.

11 MR. CALHOUN: Alright.

12 CHAIRMAN GRIFFON: Alright. So
13 NIOSH is going to check that.

14 MR. CALHOUN: Yes, we're going to
15 check on that.

16 MR. FARVER: And it also causes
17 confusion when you try to look at the table in
18 the dose reconstruction report, because now
19 it's going to list less than 30. But even
20 that is understandable if you make the link in
21 the Technical Basis Document.

22 MR. SIEBERT: Which also then

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1 would link to the only bin you have in IREP.

2 MR. FARVER: Yes, that's okay.

3 CHAIRMAN GRIFFON: Right.

4 MR. FARVER: You can keep your
5 bins.

6 CHAIRMAN GRIFFON: Okay.

7 MR. FARVER: 277.2, the DR failed
8 to assign missed or unmonitored dose in '72.
9 Okay.

10 CHAIRMAN GRIFFON: You gave this
11 one to us, huh?

12 MR. FARVER: Yes, I threw this one
13 back at you. The unmonitored dose for 72
14 could have been assigned. Single year
15 additional dose would have no impact. It's a
16 little bit more complicated than that. The
17 employee worked at Savannah River from '55
18 through '92. There was no dose assigned for
19 measured, missed, or unmonitored for '72. I
20 don't know why none was assigned or why he
21 wasn't monitored or what, but, I mean, he was
22 continually employed from '55 to '92. From

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1 the magnitude of the doses recorded for the
2 other years the employee was badged, we
3 thought it might be appropriate to either
4 assign a coworker dose or an average adjacent
5 year dose instead of nothing. That's the gist
6 of it. It was just kind of odd, the one year
7 standing out.

8 CHAIRMAN GRIFFON: Yes. And I'm
9 not sure I understand NIOSH's responses that
10 you could have. It doesn't say --

11 MR. SIEBERT: When you look at the
12 record, yes, well, when you look at the
13 record, it's a professional judgment decision
14 at this point. When you look at the records,
15 individual in '69 has 155 millirem, '70 has
16 10, which, realistically, that's below the
17 limit of detection, so they didn't have
18 anything. In '71, there's 75. '72, there's
19 no entries whatsoever. '73, there's zero. So
20 when the dose reconstructor looked at that at
21 the time, they made a professional judgment
22 that, in '72, perhaps he was not being

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1 monitored and did not assign any unmonitored
2 dose during that time frame.

3 When I look at it personally, I
4 agree that, you know, it is reasonable to
5 actually fill that gap with actual exposure
6 from one of the years on either side of it. I
7 think it's reasonable.

8 MEMBER MUNN: One of them is zero.

9 MR. SIEBERT: But I wouldn't say
10 there's specifically anything driving the dose
11 reconstructor to assign something.

12 CHAIRMAN GRIFFON: What happened
13 after '73? Was it all zero?

14 MR. SIEBERT: '74, there's no --
15 once again, it's like '72, there's no entries.

16 But when you look at the TIB-7 for Savannah
17 River, it's written for 1973 through 1988, we
18 know that they didn't list all the cycle data,
19 so we make the assumption that there's no
20 information available during that time frame,
21 and we fill it with zero.

22 CHAIRMAN GRIFFON: Okay.

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1 MR. SIEBERT: Just '72 is outside
2 that time frame.

3 CHAIRMAN GRIFFON: Got it. I'm
4 not sure what action is warranted, you know.

5 MR. FARVER: Well, you know, I
6 don't know.

7 CHAIRMAN GRIFFON: Yes, I know, I
8 know.

9 MR. FARVER: I mean, it is
10 professional judgment. It also goes back to,
11 you know, claimant-favorability. What do you
12 do when you don't know? I don't know.

13 CHAIRMAN GRIFFON: Right. Right.
14 So it's a fairly minor thing, but it --

15 MR. FARVER: Yes. It is.

16 MEMBER MUNN: The only thing we
17 could possibly do as a Subcommittee would be
18 to suggest to NIOSH that they include some
19 kind of instruction as to how to proceed in
20 cases like that, and I'm not at all sure
21 that's appropriate for us to do.

22 CHAIRMAN GRIFFON: Do you have

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1 instruction, though, generally speaking?

2 MR. SIEBERT: Well, if there's --

3 (Simultaneous speakers.)

4 MEMBER MUNN: If it's used --

5 CHAIRMAN GRIFFON: -- on either
6 side.

7 MR. SIEBERT: I mean, at that
8 point, yes, it's professional judgment for a
9 single year.

10 CHAIRMAN GRIFFON: Right, right.

11 MEMBER MUNN: It's so easy in
12 these cases for, when you have no knowledge at
13 all of where these people actually were
14 working on the site, to assume that they may
15 have been -- anything that you do is an
16 assumption. Anything.

17 CHAIRMAN GRIFFON: Yes, I don't
18 think there's much that we can do as far as an
19 action.

20 MEMBER MUNN: We can accept the
21 professional judgment or not.

22 CHAIRMAN GRIFFON: Right. Yes.

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1 MEMBER MUNN: It seems appropriate
2 to me to accept the professional judgment of
3 the reconstructor in this case. It's a single
4 case. Since his exposure was not enormous in
5 either case, unless there was an extreme event
6 of some sort, which should have been caught in
7 advance during that year, then the probability
8 would be very high that his exposure would
9 have been low in any case, and probably not
10 significant in terms of dose reconstruction.
11 That would appear to be the --

12 CHAIRMAN GRIFFON: Yes, I'm
13 looking at SC&A's last line there. "Just
14 because the additional dose does not affect
15 the compensability decision does not excuse a
16 missing dose." I mean, it is a judgment
17 thing; I agree.

18 MEMBER MUNN: The predominance of
19 the evidence would say that that exposure is
20 unlikely to have been significant in the
21 calculation.

22 CHAIRMAN GRIFFON: But that's not

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1 the point, right?

2 MEMBER MUNN: No. What to do --

3 CHAIRMAN GRIFFON: Either way, I
4 think it's either -- you know, it's not a big
5 issue, but it's a question of -- it's not
6 going to impact the overall decision, but --

7 MEMBER RICHARDSON: Do you know
8 that they --

9 CHAIRMAN GRIFFON: David.

10 MEMBER RICHARDSON: Yes. Do you
11 know that they recognized that there wasn't a
12 value there? I mean, did they justify their
13 decision to have an assumed value of zero?

14 MR. FARVER: There was nothing
15 describing it in the dose reconstruction that
16 I'm aware of.

17 MR. SIEBERT: But ambient dose was
18 assigned for that year.

19 MR. FARVER: Okay.

20 MEMBER RICHARDSON: But the
21 occupational dose wasn't?

22 MR. FARVER: Correct.

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1 MEMBER MUNN: Correct. They got
2 ambient.

3 MEMBER RICHARDSON: I mean, it
4 seems like if you were, if there were no
5 dosimetry records at all for the person, they
6 would have justified how they were handling
7 it, right? I mean, they would have had a
8 coworker model or something.

9 MR. SIEBERT: You mean if there
10 were no records for the individual at all?

11 MEMBER RICHARDSON: Yes.

12 MR. SIEBERT: Correct.

13 MEMBER RICHARDSON: And if there
14 were no records for a period of five years,
15 would there have been something done to
16 describe how you were going to handle --

17 MR. FARVER: You probably would
18 put something in there about if there's a
19 five-year lapse of something, you would either
20 do unmonitored or coworker. You may --

21 MR. SIEBERT: Right. It may be a
22 general statement, such as, time frames when

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1 the individual was monitored was based on
2 badging. Other time frames, it was based on
3 coworker or ambient, whichever was
4 appropriate.

5 MR. FARVER: Right. This just
6 happened to be one year.

7 CHAIRMAN GRIFFON: Yes.

8 MEMBER MUNN: I'm in favor of
9 accepting the dose reconstructor's judgment.

10 MEMBER RICHARDSON: And by
11 unmonitored, you mean that there is not -- how
12 do you know that they're unmonitored? Is it
13 all quarters in that year in a logbook, or is
14 it -- what was the source data that would --
15 from '72 onwards there's computerized annual
16 dosimetry records.

17 MR. FARVER: This is where they
18 just had the annual dose?

19 MR. SIEBERT: There's logbook
20 entries up to a certain point where we do have
21 cycle data. There's a time frame where we
22 have annual summaries alone.

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1 MR. FARVER: I'm trying to think
2 of '72.

3 MR. SIEBERT: '72, I believe, is
4 the end of the annual summary time frame.

5 MR. CALHOUN: I'm trying to look
6 through the records right now, and I'm not
7 quick enough.

8 MEMBER RICHARDSON: Because in
9 different years they did different things for
10 indicating, you know, that there were -- they
11 used a missing value, I guess, as an
12 indication of below detection. I'm wondering
13 if that's what was recorded, or if by missing
14 you mean that they didn't appear in the files.

15 MR. SIEBERT: From '73 through
16 '88, your first definition is the one that is
17 true, and we have a TIB on that that they did
18 not record zeros when there were zeros. They
19 may have been recorded as a blank, which means
20 -- and since we do not have that information
21 per TIB-7, we use, for '73 through '88, we
22 fill those time frames with dosimeters, zero

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1 dosimeters, such as if we have an annual value
2 for a year, we will place that value on a
3 certain number of dosimeters based on what the
4 administrative control level was during that
5 time frame and assume the rest of them are
6 zeros, even though we don't have, they're
7 filled in with blanks, we call those zeros.
8 Prior to '73, that's not the case.

9 MR. CALHOUN: Right. Prior to
10 '73, it looks like we got annual summaries.
11 And in this case, '72 was one of the only
12 years that actually showed nothing. It was a
13 blank, based on just a quick review of what's
14 actually here.

15 MR. SIEBERT: Correct. There's no
16 annual summary dose at all.

17 MR. CALHOUN: Just a blank, right.

18 CHAIRMAN GRIFFON: Is that
19 something we have to do --

20 (Simultaneous speakers.)

21 MR. CALHOUN: Based on what we
22 know, it seems like that was the right

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1 approach.

2 MEMBER MUNN: So if you were the
3 dose constructor, what would you do? I would
4 assign ambient dose and go on.

5 MR. CALHOUN: I think I would have
6 too, based on the documents that we have that
7 guide us.

8 MEMBER MUNN: Nothing to indicate
9 undue exposure during that year.

10 MR. SIEBERT: But we've pointed
11 out, it's also a reasonable assumption to -- I
12 could see assuming something else as well. I
13 mean, I don't think either one is
14 unreasonable.

15 MEMBER MUNN: Either is
16 justifiable on a judgment call.

17 MR. SIEBERT: And that's why I
18 said professional judgment call.

19 CHAIRMAN GRIFFON: Is that a
20 professional judgment call or a claimant-
21 favorability call? That's the other part of
22 it, you know. I don't know that there's any

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1 way to professionally judge that. You know,
2 you have a number, a blank, and a zero. How
3 do I professionally judge what happened in
4 that year? I have no information. It's just,
5 it seems to me it's a policy decision more
6 than a professional judgment. I mean, what's
7 the judgment?

8 MR. FARVER: Well, if you look at
9 it and you say, well, it could be a coworker,
10 could be unmonitored, it could be ambient, and
11 which one do you choose?

12 CHAIRMAN GRIFFON: Yes.

13 MR. FARVER: What's your hierarchy
14 when you don't really know?

15 CHAIRMAN GRIFFON: Right. And,
16 again, that, to me, I don't know, I would
17 think that could be maybe more of a policy
18 call, you know. Like if you don't know in
19 this kind of circumstance, you always assign
20 the whatever, the coworker model or the
21 ambient model --

22 MR. FARVER: Do you go middle of

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1 the road?

2 CHAIRMAN GRIFFON: Yes, right.

3 MR. FARVER: I don't know.

4 MEMBER MUNN: It's a legitimate
5 choice either way.

6 MR. CALHOUN: This individual
7 stated that he worked in the 700 area from '72
8 to '92 and only wore a dosimeter when he went
9 out into the field. That's in the CATI. He
10 said it.

11 CHAIRMAN GRIFFON: Alright. Well,
12 that's stronger --

13 MR. CALHOUN: So ambient fits.

14 CHAIRMAN GRIFFON: Yes.

15 MR. FARVER: It's unmonitored.

16 MR. CALHOUN: Ambient. Only wore
17 a dosimeter when he went out into the field.

18 MR. FARVER: Unmonitored.

19 MR. CALHOUN: Ambient. You only
20 wear a dosimeter where you need to be
21 monitored, out in the field. So ambient
22 works, right?

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1 MEMBER MUNN: Right.

2 MR. CALHOUN: Every facility that
3 I've worked at, when you were at your desk you
4 didn't wear your dosimeter. Unless your desk
5 was in the controlled area.

6 MEMBER MUNN: I had mine on all
7 the time, but --

8 MR. CALHOUN: I know. A lot of you
9 people hid them in your drawers.

10 MEMBER MUNN: You know I didn't.

11 MR. FARVER: But that's a whole
12 other can of worms you don't want to get into.

13 CHAIRMAN GRIFFON: Yes.

14 MEMBER MUNN: Yes.

15 MR. FARVER: You wore one when you
16 walked into the gate, and took it home with
17 you at night.

18 MEMBER MUNN: Yes, I did. I did
19 that.

20 MEMBER POSTON: I did, too. That's
21 the way it was at ORNL.

22 MEMBER MUNN: Yes.

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1 MR. CALHOUN: I just found that in
2 the CATI.

3 MEMBER POSTON: Your badge got you
4 in the front gate.

5 MEMBER MUNN: Yes.

6 MEMBER POSTON: You better be
7 wearing it.

8 MR. CALHOUN: You were on the
9 wrong team.

10 I don't know. Seems to me like a
11 reasonable assumption.

12 MR. FARVER: I don't know that
13 there's anything to fix. It's more of
14 something to be aware of. You know, if it
15 would have been a five-year lapse, they
16 probably would have wrote something in there.

17 CHAIRMAN GRIFFON: Yes.

18 MR. KATZ: So is that closed?

19 CHAIRMAN GRIFFON: Yes, I think, I
20 mean, I think it's closed. Like Doug said,
21 it's something to be aware of as this comes
22 up. I'm not so much worried about it for this

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1 case. Obviously, we're talking about a small
2 --

3 MR. FARVER: If there were an easy
4 answer to that, then I would have wrote it in.

5 MR. SIEBERT: That's why I said
6 we'll talk about it.

7 CHAIRMAN GRIFFON: Alright. I'm
8 putting "SC&A accepts NIOSH's argument, no
9 further action." Actually, I'll put "SC&A
10 accepts NIOSH's approach," rather than
11 "argument."

12 MR. FARVER: Combative discussion.

13 CHAIRMAN GRIFFON: Right. Okay.

14 MR. SIEBERT: Sounds like we're
15 getting along.

16 CHAIRMAN GRIFFON: Yes, okay. So
17 are we on the next one, or do we want a break?

18 MEMBER POSTON: What's the next
19 one?

20 MR. FARVER: 277.3 would be the
21 next one.

22 MR. SIEBERT: There's two more in

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1 this case, .3 and .4.

2 CHAIRMAN GRIFFON: Okay. Let's
3 finish up this case.

4 MR. FARVER: Okay. This next one
5 is a tritium issue, and this is one that comes
6 up several times. And the gist of it is, over
7 the years, since the TBD was issued back in
8 2005, things have changed. There's more
9 information available, and they do things
10 differently according to the DR guide. Is
11 that fair to say?

12 MR. SIEBERT: Reasonable, yes.

13 MR. FARVER: Okay. Fair, fair.
14 Okay. And this is one of those cases where
15 the information contained in the DR guide is
16 not consistent with what is in the Technical
17 Basis Document, the current version of the
18 Technical Basis Document. So when you go in
19 the TBD and look for the tritium MDAs, you
20 will come up with one number, but they are
21 using a different one based on increased
22 knowledge. And the reason we wrote it as a

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1 finding was because it was different than the
2 values in the Technical Basis Document, so we
3 suggest that you revise your Technical Basis
4 Document, which you already know.

5 MR. CALHOUN: I can't disagree
6 with that.

7 MR. FARVER: And this is --

8 MR. SIEBERT: We agree
9 wholeheartedly.

10 MR. FARVER: This has come up
11 several times about the tritium issue, so we
12 can take care of it.

13 MR. CALHOUN: Yes, I agree.

14 CHAIRMAN GRIFFON: So NIOSH and
15 SC&A agree --

16 MR. CALHOUN: Yes, and it's --

17 CHAIRMAN GRIFFON: -- and are
18 planning revision.

19 MR. CALHOUN: It's planned. It's
20 just one of those ones. That SRS TBD is a
21 challenge.

22 MR. FARVER: Now, I didn't check,

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1 but I'm hoping this is in your DR guide.

2 MR. SIEBERT: Correct.

3 MR. FARVER: Okay.

4 MR. SIEBERT: And another thing to
5 point out, especially on this one, actually
6 for a lot of the other ones, as well, they're
7 not really MDAs. The detection values that
8 are listed in the TBD are based on 5
9 microcuries per liter, and that's when
10 Savannah River said, oh, here's where we're
11 going to start calculating doses. They never
12 said that that's all they could detect. But
13 in the early version of the TBD, we said,
14 well, that's a high number, we'll go with that
15 in the initial version of the TBD until we
16 have more information. That's what's in the
17 TBD.

18 CHAIRMAN GRIFFON: I see.

19 MR. SIEBERT: When you go back and
20 in this claim itself, this person has tritium
21 monitoring, and they are listed as less than 1
22 microcurie per liter. So it is clear that

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1 this person had monitoring and the values were
2 less than 1 microcurie per liter, which is
3 what is reflected in the doses that we
4 assigned, as opposed to the 5 mics per liter
5 from the TBD. I see your point, once again.
6 But I just want to bring up, even in this
7 case, with this individual's case, they had
8 monitoring in their own case that went against
9 the TBD.

10 MR. FARVER: Okay. But you
11 understand there's two tables, there's Table
12 4.5.2-1 that lists doses for certain years.

13 MR. SIEBERT: Which are based on -
14 -

15 MR. FARVER: Okay. And then
16 there's OTIB-1, which also has similar table -
17 -

18 MR. SIEBERT: It pulled the same
19 thing and, once again, it's based on those
20 values.

21 MR. FARVER: Okay. And all we're
22 saying is it's not consistent.

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1 MR. SIEBERT: And all we're saying
2 is I agree wholeheartedly, and the next
3 version will update that.

4 MR. FARVER: So what are we
5 arguing about?

6 MR. SIEBERT: I don't know.

7 MR. FARVER: Okay.

8 MR. SIEBERT: We're just trying to
9 waste time until we can leave.

10 (Laughter.)

11 MR. KATZ: So is this closed?

12 CHAIRMAN GRIFFON: 277.4 is
13 closed. Well, they agree, NIOSH is planning
14 on updating the TBD document.

15 MEMBER CLAWSON: What was the
16 number?

17 CHAIRMAN GRIFFON: 277.4.

18 MR. FARVER: 277.4, NIOSH failed
19 to address all incidents reported by the --
20 something. It must be "employed." Based on
21 the approach used and the internal doses were
22 applied based on the highest recorded intakes

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1 at the site, it's unlikely that, basically,
2 any additional dose or any dose went
3 unassigned.

4 About the only thing we can bring
5 up is that in the CATI the employee expressed
6 a concern that the dosimeter he was wearing
7 was not necessarily representative because he
8 was wearing it on his chest and he was leaning
9 over and looking into a tank. Okay. So it
10 wasn't necessarily representative of the
11 location of his cancer, you know, the brain
12 area. About the only thing we can say is it
13 would be nice if he would have mentioned
14 something like that in the report. You know,
15 addressed that issue that the employee had,
16 not necessarily do any doses differently, just
17 kind of address their concern. But we suggest
18 closing it.

19 CHAIRMAN GRIFFON: Especially, I
20 can't imagine his work would require him to be
21 in that position for extended periods of time.

22 MR. FARVER: And that's all for

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1 277.

2 CHAIRMAN GRIFFON: No further --
3 I'm just going to close that.

4 MR. KATZ: Before you take a
5 break, I want to report on something else
6 that's in the offing.

7 CHAIRMAN GRIFFON: Okay. Yes, go
8 ahead, Ted, and then we'll take a break.

9 MR. KATZ: Okay. So this isn't
10 related to this whatsoever, but at the last
11 Subcommittee meeting we had a discussion about
12 a General Atomics case, which DCAS had raised
13 questions about it with the Department of
14 Labor and Department of Labor had said, sorry,
15 this doesn't fit into the SEC Class, do the
16 dose reconstruction. And then Brad and John
17 and Doug were going on with their concerns
18 about whether that should be followed up, and
19 we said this is really not for the
20 Subcommittee to do, nor is it DCAS to go
21 further to battle, but that I would bring it
22 to our ombudsman to pursue, which I did.

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1 Denise.

2 So I asked Denise to look into it.

3 I gave her details about the situation, and
4 then I kept in touch with Denise, and we've
5 been pursuing this. And the good news is that
6 -- and this person was a draftsman and an
7 office worker, and so the question was: why
8 would this person have been in one of the
9 buildings that was covered by that SEC Class?

10 So Denise did her usual bang-up
11 job in rattling all the cages and found,
12 actually found someone who knew this worker,
13 knew someone from General Atomics that worked
14 there and knew that the draftsmen were
15 actually in one of the buildings that was
16 covered by the SEC Class.

17 So the good news is this person
18 was in a building that is actually covered by
19 the designation. DOL didn't know that before
20 Denise found, through very extensive effort, a
21 worker who knew the site and knew that
22 situation. And so it hasn't, it's not

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1 finished, the adjudication process, but it
2 looks like that person will end up in the
3 Class because the draftsmen were in a building
4 that's covered by the SEC site.

5 CHAIRMAN GRIFFON: Well, good.

6 MR. KATZ: So I just wanted to let
7 you know because you had asked me to follow up
8 on that, and I have, and that's what's come of
9 it, which is a good result for the individual.

10 CHAIRMAN GRIFFON: Yes, definitely
11 important for that individual. Yes. Good.

12 MR. KATZ: So thank you for
13 raising it. You all made a difference for
14 that individual, or it was collaborative in
15 this case, I guess.

16 CHAIRMAN GRIFFON: And thanks to
17 Denise for her work.

18 MR. KATZ: Yes, absolutely.
19 Always.

20 CHAIRMAN GRIFFON: Okay. Let's
21 say we take a break and then try to go until
22 five. Is that -- anybody got a flight?

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1 MR. FARVER: I've got a 6:00
2 flight.

3 CHAIRMAN GRIFFON: You got a 6.
4 Alright. Maybe quarter of five? We'll stop
5 at quarter of five. I mean, we don't want to
6 -- I don't know. Security has probably got
7 five people in there, right?

8 MR. FARVER: It usually depends on
9 how much time we have.

10 (Laughter.)

11 CHAIRMAN GRIFFON: Yes. There's
12 usually more -- I don't want to say that.
13 Okay. Let's take a ten-minute break.

14 (Whereupon, the above-entitled matter went off
15 the record at 4:13 p.m. and resumed at 4:26
16 p.m.)

17 CHAIRMAN GRIFFON: Alright.
18 David? David Richardson or whoever is online,
19 we're just going to go for about 15 or 20 more
20 minutes and just a couple of issues to wind
21 down here. The first thing, well, I think we
22 should take care of the two administrative

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1 items first, and they overlap a little bit.
2 But in terms of, during the break, Scott asked
3 me, you know, we're focusing on these 10th
4 through 13th sets by sites, and I think it
5 seems to be working. I mean, NIOSH and SC&A
6 seem to think it's a good way to go forward.
7 It seems, at least so far to the Subcommittee,
8 to be working.

9 So the question for NIOSH, that
10 NIOSH is asking is what are the next two in
11 line so we can be prepared for the next
12 meeting going forward? So I'll ask Doug on
13 that.

14 MR. FARVER: Okay. Since for this
15 next section or next group, we're planning to
16 go back and do a check on those Site Profile
17 changes, check on any SEC impacts --

18 CHAIRMAN GRIFFON: That's the
19 second part of this question, which is that
20 look-back, as Jim Melius described it --

21 MR. FARVER: So the next time I'm
22 here and I'm presenting the findings, we'll

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1 have this section all in front of the matrix
2 to look at. So we'll have all the information
3 together, so that's what we're going to work
4 on for the next package. So the next site we
5 pick should be one that it's okay to go back
6 and look at the Profile and the SEC and, you
7 know --

8 CHAIRMAN GRIFFON: Yes. It's not
9 sort of --

10 MR. STIVER: Hey, Doug, this is
11 John Stiver. I think the next one, the next
12 two in line, just based on the number of cases
13 and findings, is Los Alamos and Rocky. And
14 maybe Rocky might be better, if we're planning
15 on doing this look-back, for some of the
16 reasons that Stu mentioned earlier today.

17 CHAIRMAN GRIFFON: Well, yes.

18 MR. FARVER: It's up to you.

19 MR. STIVER: In either case,
20 there's not that many findings. I think
21 there's like 14 or 15 each.

22 MR. FARVER: If you want to do

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1 Rocky, that's not, you know, a cause of
2 controversy or anything, we could do that. We
3 talked about Los Alamos. I talked with you
4 about that. You said, you know, that may or
5 may not be.

6 CHAIRMAN GRIFFON: Well, I think
7 Rocky and Los Alamos both are in the midst of
8 some SEC evaluation.

9 MR. FARVER: Now, there's always
10 Nevada Test Site.

11 CHAIRMAN GRIFFON: Yes, yes.

12 MR. FARVER: There's nine
13 findings, so that's a small number, something
14 easily to handle. I don't know. We might
15 want to do Nevada Test Site, if that's a more
16 stable type of place.

17 CHAIRMAN GRIFFON: How many
18 findings for the other sites?

19 MR. FARVER: It was like 14 for
20 Rocky and 15 for Los Alamos.

21 CHAIRMAN GRIFFON: And, really,
22 you're more interested in the number of cases,

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1 not so much the number of findings.

2 MR. FARVER: Yes. Los Alamos is
3 only three cases or fifteen findings.

4 MR. STIVER: NTS only had nine
5 findings and four cases.

6 MR. FARVER: And Fernald is ten
7 findings on five cases.

8 CHAIRMAN GRIFFON: And Rocky Flats
9 is how many cases?

10 MR. FARVER: Down to the R's.
11 Fourteen findings on eight cases.

12 CHAIRMAN GRIFFON: I think that
13 might be the best. Yes, I think that might be
14 the better one.

15 MR. FARVER: Okay.

16 CHAIRMAN GRIFFON: I don't know
17 what other people feel, but I think that will
18 at least give you a better sample and not too
19 huge that, you know --

20 MR. FARVER: Yes.

21 CHAIRMAN GRIFFON: Okay. So Rocky
22 Flats, I think, for the look-back part, and

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1 then what other site for the --

2 MR. FARVER: Well, no, the Rocky
3 Flats we're going to do the look-back and the
4 findings.

5 CHAIRMAN GRIFFON: Right. But
6 then what other one just for the findings?

7 MR. FARVER: Oh, I was going to
8 propose that we do all these the same way
9 then.

10 CHAIRMAN GRIFFON: Yes.

11 MR. FARVER: So as the next site
12 comes up, we would do a look-back and
13 findings.

14 MR. KATZ: Well, we just want to
15 do -- we're trying to pilot that, so the look-
16 back is just for one.

17 CHAIRMAN GRIFFON: Yes, just for
18 the Rocky now.

19 MR. FARVER: Okay.

20 CHAIRMAN GRIFFON: Only because
21 we're not sure what we're going to get out of
22 it, you know. Yes, we want to see sort of --

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1 MR. FARVER: It's probably easier
2 for us to do them both at once. But, I mean,
3 that's okay. Okay. And then I guess the site
4 really doesn't matter after that.

5 MR. KATZ: Well, it's in numbers.
6 Where are we? Rocky Flats was one. LANL, is
7 that another one?

8 MR. FARVER: Yes. It's only three
9 cases, but it's fifteen findings. So it
10 depends on what numbers --

11 CHAIRMAN GRIFFON: Why don't we do
12 a look-back and findings for Rocky and
13 findings for LANL?

14 MR. FARVER: Okay.

15 CHAIRMAN GRIFFON: Just move ahead
16 that way.

17 MR. KATZ: Is that enough work to
18 get adequate progress on, those two, or do we
19 need to add another?

20 CHAIRMAN GRIFFON: What's next in
21 line?

22 MR. FARVER: Oh, no. I mean, I'm

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1 not sure we'll -- well --

2 MR. KATZ: To be able to get them
3 out -- okay.

4 MR. FARVER: Then my concern would
5 be getting it all done.

6 CHAIRMAN GRIFFON: Yes, okay.
7 Those will be our next two in line. Okay.
8 And we can --

9 MR. SIEBERT: Now, did you say
10 LANL? The second one?

11 CHAIRMAN GRIFFON: Yes, LANL.

12 MR. SIEBERT: Now, my question is,
13 what I was asking for is what are the two next
14 groupings that we're going to do, such as the
15 grouping that we'll talk at the next meeting,
16 and then a heads-up for the grouping that will
17 be the meeting after that so that we get the
18 heads-up. Are you talking Rocky and then LANL
19 or both of them for the next meeting?

20 MR. KATZ: The next meeting is
21 Rocky and LANL.

22 MR. SIEBERT: Yes, I'm hearing two

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1 different things.

2 MR. KATZ: Right?

3 MR. FARVER: I think Rocky would
4 be enough.

5 MR. KATZ: Oh, really? Okay.

6 MR. SIEBERT: That's why I'm
7 asking the question.

8 CHAIRMAN GRIFFON: Yes. Probably
9 realistically, look what we got on this one --

10 MR. CALHOUN: And there's got to
11 be some SRS in that next meeting, too, I would
12 think.

13 CHAIRMAN GRIFFON: Right.

14 MR. FARVER: Still Category A.

15 MR. SIEBERT: So we'll do Rocky
16 for the next meeting and then --

17 CHAIRMAN GRIFFON: LANL for the
18 second.

19 MR. SIEBERT: LANL at least is on
20 the table for the next one, and we can always
21 decide at the next one. Okay.

22 CHAIRMAN GRIFFON: The next

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1 meeting we can put another one out. Yes,
2 whatever.

3 MR. FARVER: The next meeting, if
4 we decide we like the look-back approach, we
5 can always add it.

6 CHAIRMAN GRIFFON: Yes, okay.

7 MR. FARVER: Okay.

8 CHAIRMAN GRIFFON: And do we want
9 to, while we're doing -- well, it should
10 probably just be kind of the end of it. Do we
11 want to put a date for the next -- might want
12 to let everyone look through here.

13 MR. KATZ: Yes.

14 CHAIRMAN GRIFFON: David, are you
15 online? David? Ted, what would be our, we've
16 been doing these two months apart?

17 MR. KATZ: Yes, we're trying for
18 approximately two months apart.

19 MEMBER MUNN: So we're looking at
20 October. I'll be out of pocket from the 4th
21 through the 18th.

22 MR. KATZ: Okay. So let's look

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1 after the 18th then.

2 CHAIRMAN GRIFFON: So you're
3 looking October? Is that what you're looking
4 at, Ted?

5 MR. KATZ: Yes, October. And
6 she's out of pocket until the 18th.

7 CHAIRMAN GRIFFON: Right.

8 MEMBER MUNN: Unless you do it the
9 1st, 2nd, or 3rd.

10 MR. KATZ: No, we can't because
11 that's the new fiscal year. It's a problem.

12 MEMBER MUNN: It is.

13 CHAIRMAN GRIFFON: Well, the week
14 of the 22nd through 26th is bad for me. You
15 said 4th through the 18th is bad for you,
16 Wanda?

17 MR. KATZ: So what about the last
18 week?

19 CHAIRMAN GRIFFON: The last week I
20 think --

21 MR. SIEBERT: I don't know how
22 important I am, but I'm gone at the Bioassay

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1 Conference the last week.

2 MR. CALHOUN: You are very
3 important.

4 MR. KATZ: According to Grady.

5 MR. SIEBERT: Wow.

6 CHAIRMAN GRIFFON: I'm at a
7 conference. Yes, I'm away.

8 MEMBER MUNN: So Scott's --

9 MR. KATZ: Scott, how long are you
10 gone? That whole week?

11 MR. SIEBERT: The whole week, yes.

12 MR. KATZ: Okay.

13 MEMBER MUNN: October.

14 MR. KATZ: So then that puts us
15 into --

16 MR. FARVER: November.

17 MR. KATZ: -- the first full week
18 of November? That's Election Day week, by the
19 way.

20 MEMBER MUNN: We have Procedures
21 on the 1st. We have Procedures on the 1st.

22 MR. KATZ: Yes, but that doesn't

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1 work for Scott, anyway.

2 CHAIRMAN GRIFFON: I can't do the
3 1st.

4 MEMBER MUNN: You won't be back by
5 Friday, huh?

6 MR. KATZ: So what about later in
7 Election Day week?

8 CHAIRMAN GRIFFON: We have a Board
9 call on the Monday, right? So later that week
10 you're saying?

11 MR. KATZ: Yes. So the 6th is
12 Election Day, and you probably don't want to -
13 - so you could travel to -- what about the
14 7th?

15 MEMBER MUNN: I could travel on
16 the --

17 MEMBER POSTON: I'm not available
18 the rest of that week.

19 MEMBER MUNN: The 7th would be
20 fine for me.

21 CHAIRMAN GRIFFON: You're not
22 available that week?

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1 MR. KATZ: John. That doesn't
2 work for John. Okay. So we're up to --

3 CHAIRMAN GRIFFON: How about the
4 12th?

5 MR. CALHOUN: The 12th is
6 Veterans' Day.

7 MR. KATZ: All right.

8 MEMBER MUNN: That week doesn't
9 work for anybody?

10 MR. CALHOUN: I don't have a lot
11 marked on my calendar, but I've got the
12 important stuff.

13 CHAIRMAN GRIFFON: The 13th?

14 MR. KATZ: The 13th?

15 CHAIRMAN GRIFFON: The 13th? Do I
16 hear a second on the 13th?

17 MR. KATZ: It could be the 13th
18 because it can't be the 14th, 15th, or 16th.
19 OGC is not available then.

20 CHAIRMAN GRIFFON: Oh, okay.
21 13th, Wanda?

22 MEMBER MUNN: The 13th is fine for

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1 me.

2 MEMBER CLAWSON: I'm conflicted on
3 that one.

4 CHAIRMAN GRIFFON: Oh, you are?

5 MEMBER CLAWSON: Yes.

6 CHAIRMAN GRIFFON: Oh, gosh.

7 MEMBER MUNN: You just don't like
8 Tuesdays, do you?

9 CHAIRMAN GRIFFON: Did we rule out
10 the 9th? Friday the 9th?

11 MEMBER POSTON: I'm conflicted. I
12 got a conference, a science teacher conference
13 from Wednesday through Saturday.

14 CHAIRMAN GRIFFON: The rest of
15 that week. Okay.

16 MEMBER POSTON: Yes.

17 MEMBER MUNN: So you can't do
18 Election Day because --

19 CHAIRMAN GRIFFON: How about the
20 15th or 16th?

21 MR. KATZ: Those are OGC --

22 CHAIRMAN GRIFFON: Oh, OGC.

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1 MR. KATZ: -- is not available.

2 CHAIRMAN GRIFFON: Geez.

3 MR. KATZ: I mean, I'm not, we
4 don't usually have OGC activities, but they
5 asked me not to schedule anything when they're
6 -- even though.

7 CHAIRMAN GRIFFON: Yes.

8 MR. CALHOUN: Well, we could ask
9 them.

10 MEMBER CLAWSON: What if we went
11 to the last part of September?

12 MEMBER POSTON: What's OGC?

13 MR. KATZ: Office of General
14 Counsel. Lawyers.

15 MEMBER POSTON: We don't need
16 lawyers. Shakespeare took care of them a long
17 time ago. What did you say, the last week in
18 September?

19 CHAIRMAN GRIFFON: Yes, what about
20 backing up to the last week.

21 MEMBER POSTON: I can do that
22 whole week, the 24th through the 28th.

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1 CHAIRMAN GRIFFON: How about the
2 28th? Yes, that is the end of a fiscal year.
3 That's what I get concerned about, you know.
4 The 28th?

5 MEMBER MUNN: Of September?

6 CHAIRMAN GRIFFON: September.
7 It's kind of tight.

8 MR. KATZ: Really tight, yes. I
9 don't think so.

10 CHAIRMAN GRIFFON: Yes, yes.

11 MEMBER MUNN: Especially right
12 after Denver.

13 MEMBER POSTON: We need to get the
14 federal government to go to an academic year.

15 MR. KATZ: That's coming right
16 around the corner. Probably next year.

17 (Laughter.)

18 CHAIRMAN GRIFFON: All right.
19 Well, are we back out in November then?

20 MEMBER MUNN: Unless we can
21 rethink that first week in October.

22 CHAIRMAN GRIFFON: What about the

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1 19th?

2 MR. KATZ: It doesn't work for
3 that reason.

4 CHAIRMAN GRIFFON: What about
5 November 19th?

6 MEMBER CLAWSON: I was conflicted
7 on the 20th, so what about the --

8 CHAIRMAN GRIFFON: You can't make
9 the 9th? Oh, yes, travel-wise, you couldn't
10 make the --

11 MEMBER CLAWSON: What about the
12 26th?

13 CHAIRMAN GRIFFON: Yes, that's
14 okay with me.

15 MEMBER POSTON: Does that mean
16 we'd travel on the 25th, which is the week of
17 Thanksgiving?

18 MR. KATZ: Oh, that's not good.

19 MEMBER POSTON: The worst time in
20 the world to travel is that Sunday.

21 CHAIRMAN GRIFFON: Yes, that's the
22 worst travel day.

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1 MR. KATZ: Wait. What day is
2 Thanksgiving?

3 MR. CALHOUN: Thursday the 22nd.

4 CHAIRMAN GRIFFON: The 22nd.

5 MR. KATZ: Yes, so the 27th, you'd
6 have to do the 27th. You couldn't do the
7 26th.

8 CHAIRMAN GRIFFON: All right. The
9 27th.

10 MR. KATZ: Yes, I know you don't
11 like that.

12 CHAIRMAN GRIFFON: That's all
13 right.

14 MR. KATZ: Okay. November 27th?

15 CHAIRMAN GRIFFON: Yes.

16 MR. FARVER: Now, the other option

17 --

18 CHAIRMAN GRIFFON: Well, that only
19 took 15 minutes.

20 MR. FARVER: -- is we're not going
21 to get another one in before the end of the
22 year, so if you just wanted even to stretch it

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1 out to the beginning of December. It's up to
2 you, but --

3 CHAIRMAN GRIFFON: Well, then we'd
4 have to add two more sites for you then, Doug.

5 MEMBER MUNN: No, you really don't
6 want to do that because --

7 CHAIRMAN GRIFFON: I think let's
8 stick with this date.

9 MEMBER MUNN: -- you've got a big
10 meeting --

11 MR. KATZ: November 27th.

12 MR. FARVER: That's fine.

13 MEMBER MUNN: -- coming up on the
14 10th in Tennessee.

15 CHAIRMAN GRIFFON: Oh, yes, right.

16 MEMBER MUNN: You don't want to do
17 that. The 27th?

18 MEMBER POSTON: When is the Board
19 meeting?

20 MR. KATZ: It's early December.

21 MEMBER MUNN: The 27th, right?

22 CHAIRMAN GRIFFON: Yes.

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1 MEMBER CLAWSON: The Board meeting
2 is the 10th.

3 MEMBER MUNN: It's the 10th
4 through the 12th.

5 MEMBER POSTON: And we don't know
6 where it's going to be yet, do we?

7 MEMBER MUNN: Tennessee. That's
8 what we said before.

9 MEMBER POSTON: Tennessee where?

10 MR. KATZ: Tennessee.

11 MEMBER POSTON: So just pick out
12 any part of Tennessee you like.

13 CHAIRMAN GRIFFON: Okay. The last
14 thing that I --

15 MEMBER MUNN: Are we going to meet
16 at 8:30 in the morning?

17 MR. KATZ: Oak Ridge is where
18 we're going to be.

19 CHAIRMAN GRIFFON: Well, I'll just
20 -- that's all right. We don't even have to
21 discuss this one. We discussed it earlier. I
22 think we should probably call it quits here

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1 because Doug has the closest margin here, so
2 we don't want to -- anything else? I don't
3 see how opening up a new case at this point.
4 I think we'll just close it here. Anything
5 else for the record? No?

6 MEMBER MUNN: Don't believe so.

7 CHAIRMAN GRIFFON: All right.
8 Meeting is adjourned.

9 (Whereupon, the above-entitled
10 matter was adjourned at 4:40 p.m.)

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