

This transcript of the Advisory Board on Radiation and Worker Health, Dose Reconstruction Subcommittee, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the Dose Reconstruction Subcommittee accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

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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 REVIEWS

+ + + + +

FRIDAY,
JULY 15, 2011

+ + + + +

The Subcommittee met in the Zurich Room of the Cincinnati Airport Marriott, 2395 Progress Drive, Hebron, Kentucky, at 9:00 a.m., Mark Griffon, Chairman, presiding.

PRESENT:

MARK GRIFFON, Chairman
BRADLEY P. CLAWSON, Member*
WANDA I. MUNN, Member
ROBERT W. PRESLEY, Member*
DAVID B. RICHARDSON, Member*

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ALSO PRESENT:

TED KATZ, Designated Federal Official
ISAF AL-NABULSI, DOE*
HANS BEHLING, SC&A*
KATHY BEHLING, SC&A*
ZAIDA BURGOS, NIOSH*
DOUG FARVER, SC&A
STU HINNEFELD, DCAS
JOHN MAURO, SC&A*
MUTTY SHARFI, ORAU Team*
SCOTT SIEBERT, ORAU Team*
JOHN STIVER, SC&A
BRANT ULSH, DCAS

*Present via telephone

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

2 (9:09 a.m.)

3 CHAIRMAN GRIFFON: Welcome
4 everyone. Starting our Dose Reconstruction
5 Subcommittee meeting. And just for the sake
6 of those who didn't bring the agenda like me,
7 I'm going to read -- read it out, just so you
8 have a sense of where you're going today.

9 The first item that I put on the
10 agenda was discussion of the NIOSH ten year
11 review, findings and recommendations,
12 specifically those focused on dose
13 reconstruction and the quality of science
14 issues. If you remember the last Board
15 meeting, we committed to reviewing this at the
16 Subcommittee with the intent of coming back to
17 the full Board with possibly a proposed --
18 some proposed recommendations to make to the
19 secretary. There are comments on the ten-year
20 plan.

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1 MR. KATZ: Or to NIOSH really.

2 CHAIRMAN GRIFFON: Back to NIOSH,
3 right.

4 MR. KATZ: Yes.

5 CHAIRMAN GRIFFON: Right, right.
6 To NIOSH. So, that's the first item. The
7 second item is the blind case reviews, which I
8 believe are two, right, Doug? There are two
9 of those.

10 MR. FARVER: Yes.

11 CHAIRMAN GRIFFON: Blind case
12 reviews, which we've -- or maybe it's me, but
13 we've neglected to put on the agenda for a
14 while. They've been done for quite -- quite a
15 long time, yes. And then we have the PER
16 number 12 case selection, which I don't think
17 should take us a terribly long time to do
18 that. And then the 15-set case selection, and
19 these are documents.

20 These sets of cases were set out

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1 to everyone. So, I hope if you didn't get
2 them, maybe email Ted while we're talking
3 about the earlier items so you can have them
4 in your computers when we come to the agenda.

5 And then the last thing is our normal course
6 of work, which is to continue on the case
7 reviews, 7th, 8th, possibly 9th set.

8 So, is there anything else that we
9 need to add to the agenda? I think that kind
10 of covers it. Okay, so to start off, I mean
11 the review of the NIOSH ten-year review, I --
12 there's -- I guess there's two documents out
13 there, and I'm sort of looking at them this
14 morning myself, but one was sent out before
15 the Board conference call about a week ago,
16 and that was a boiled down version is my
17 understanding, of the larger, earlier
18 document.

19 It was sort of proposed actions on
20 some of the priority items, I guess is the way

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1 it's laid out. And the other document that I
2 was looking at was a -- it's a 14-page
3 document, a draft final recommendations
4 document, that is actually posted -- I don't
5 know if both of these are posted on the web,
6 but this one is in the website, and it was
7 presented at our last full Board meeting in
8 St. Louis.

9 So, if people have those
10 documents, I think that's maybe where we can
11 start our discussions. Everybody on the
12 phone, you got those items?

13 MEMBER RICHARDSON: I have the
14 boiled down action items. I'm still looking
15 for the earlier one.

16 CHAIRMAN GRIFFON: Okay.

17 MR. KATZ: That was Member
18 Richardson.

19 MEMBER CLAWSON: This is Brad.
20 I'm in the same boat. I'm trying to look up

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1 what was sent earlier.

2 DR. MAURO: And Mark, this is John
3 Mauro. I have a document I'm holding in my
4 hand, which I read carefully. It's 44 pages,
5 dated 2011. It might be something different
6 than you're looking at right now.

7 CHAIRMAN GRIFFON: Yes, the one I
8 have --

9 DR. MAURO: It's a large document.

10 MR. KATZ: John, I just emailed
11 you and Kathy the condensed version.

12 DR. MAURO: Okay.

13 MR. STIVER: It should be in
14 there.

15 DR. MAURO: We should be working
16 from that. Thanks a lot, John.

17 CHAIRMAN GRIFFON: Okay, I guess
18 we can start at least the discussion of these
19 items. I -- I mean I think -- I'm not sure
20 that there were a lot of surprises. A lot of

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1 it has been similar to what we've been finding
2 all along.

3 One thing that -- two things that
4 jumped out at me, and I'll just start the
5 discussion. One is the QAQC focus, and
6 actually Lew does include that on -- as one
7 of his first items on some action items
8 related to QAQC issues, and we've certainly
9 been dealing with that on our Subcommittee.

10 And the other is the -- the
11 question of using the overestimating approach,
12 and whether we -- I think one of the findings
13 was that raised some complications over the
14 years for various reasons. You know, a lot of
15 the biggest ones was another cancer coming up
16 later, then having to report back lower
17 numbers later. Things like that.

18 So, that question of how often or
19 when should you -- should NIOSH continue to
20 use that, how often, that sort of thing.

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1 John, did you have something?

2 MR. STIVER: Oh, no.

3 CHAIRMAN GRIFFON: So, I don't
4 know. I mean that's just a couple quick ones.

5 I must admit I didn't extensively review
6 this, but if others have items that they think
7 either are in support of NIOSH's -- consistent
8 with NIOSH's findings, their ten-year review,
9 or different items, I guess that's what we're
10 here for. So, Wanda, anything?

11 MEMBER MUNN: I don't believe so
12 based on what Lew had to say at our most
13 recent teleconference. I think the things
14 that are applicable to what we're doing here
15 are -- already are noted.

16 MR. HINNEFELD: If I could just
17 offer an item or two?

18 CHAIRMAN GRIFFON: Go ahead.

19 MR. HINNEFELD: In the QA section
20 of continuing review in my view relied very

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1 heavily on the work of the Subcommittee and
2 the work being done here. So, it probably
3 sounds familiar to the Subcommittee. And we
4 are -- we have been doing some work on that.
5 We haven't ignored the issue, and have been
6 looking at it.

7 There was a selected set of cases
8 with specific -- specific findings related
9 that ORAU has taken a look at in terms of
10 positive factors for those errors, and I've
11 also taken a look at. And I've got to tell
12 you it's -- it's not -- thinking about it,
13 it's not encouraging because the mistakes
14 oftentimes were a lapse of attention on the
15 dose reconstructor, and then you have a peer
16 review process that doesn't specifically ask
17 you to check that particular thing that was --
18 that was missed. It has general -- more
19 general instructions in the peer review
20 procedure.

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1 And so, it got -- it has peer
2 review also, whether it was inattention or
3 just didn't happen to think of it at that
4 time, or it didn't fit. You know, the
5 questions in the peer review procedure didn't
6 drive them to check that particular item.

7 And so, when you think about in QA
8 terms of process improvement, what would you
9 do about that? Well, what you try to do is
10 design your system so that those mistakes --
11 you aren't putting yourself in a position to
12 have those kinds of mistakes because that's
13 going to happen when you do 30,000 cases.
14 People are going to make a mistake.

15 CHAIRMAN GRIFFON: Right.

16 MR. HINNEFELD: And then, so if
17 you -- in that kind of a situation, where you
18 have people making all these independent
19 decisions, all these decisions on all these
20 dose reconstructions, then you have to rely

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1 really heavily on the inspection process.

2 So, if you make a really thorough
3 inspection process to avoid any kind of
4 errors, then you really slow it down. You
5 make it far more expensive, and you really
6 impede the progress on dose reconstruction,
7 which is -- I'm not saying that we shouldn't
8 be doing it. I mean we definitely are trying
9 to improve the quality of the dose
10 reconstruction, but this is not an easy nut to
11 crack.

12 I mean when you get into that kind
13 of error, that is a tough one to fix. I think
14 some things have been fixed by better and more
15 robust tools, and more things are done
16 automatically now than were done over the
17 years in some of these cases that were done
18 quite a while ago.

19 And so, I think there are a number
20 of things that have been done, and maybe some

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1 additional things that can be done, but I mean
2 the classic response to, "How do you make sure
3 those errors don't get out?" is you make a
4 very specific and prescriptive inspection
5 program. And so, just in the list of however
6 many findings that was -- maybe 10 or 11
7 additional items to specifically check on
8 inspection in order to drive the peer reviewer
9 in order to find that mistake.

10 And so, if you did this, you would
11 just continually build this enormous
12 inspection checklist for the peer review. And
13 so, it just doesn't seem like a winnable
14 battle. So, we're going to have to be a
15 little more creative than traditional on this
16 and see what we can do. So, it's going to be
17 a tough nut to crack.

18 Lou's opinion, and I agreed with
19 his opinion, is that my preference is that
20 this Subcommittee not find any mistakes in any

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1 of the dose reconstructions. You know, that's
2 my preference. I'm not sure we can attain
3 that.

4 CHAIRMAN GRIFFON: Looking for
5 them or --

6 MR. HINNEFELD: I'll take it
7 either way.

8 CHAIRMAN GRIFFON: Right, right.

9 MR. HINNEFELD: But not matter how
10 much you look, you shouldn't find any, and
11 that's the way I feel about it. But boy, this
12 is a tough one.

13 CHAIRMAN GRIFFON: Zero errors is
14 tough, right. David, go ahead.

15 MEMBER RICHARDSON: Yes, I totally
16 appreciate that. What I felt like coming out
17 of the QAQC is -- is I don't have -- I don't
18 have a starting point, like a place where I
19 plant my stake and say, "This is where we are
20 today." An action that you take following the

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1 ten-year review is going to have a positive or
2 negative impact on the quality of the work
3 being done or the product that's being
4 delivered.

5 And so, that's -- to me, that's
6 concerning because in fact it's possible that
7 you can introduce a tool or a new procedure,
8 which has a not anticipated impact on the
9 quality of the work product. And so -- and I
10 feel like there's a little bit of a
11 distinction, and it's probably between -- I
12 mean this could be a difference between health
13 physics and epidemiology in a sense of
14 difference between a deterministic
15 intervention where you're saying we have to
16 have greater oversight on a record by record
17 basis, and what I would call a probabilistic
18 or stochastic evaluation process, where I
19 would say I feel comfortable with a 5 percent
20 or 10 percent sample, and getting from that

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1 survey census perspective, getting an idea of
2 the quality of the work product being
3 delivered.

4 Now, one of those, as you said as
5 you increase the -- kind of the types of
6 deterministic interventions where you're going
7 to have a more detailed inspection on every
8 record as that increases, necessarily that's
9 increasing the cost of and the time that's
10 required for the evaluations.

11 But for -- in a lot of business
12 models, you might say, "I'd be willing to
13 accept a 5 percent or 10 percent increase in
14 the cost of the process, and a 5 percent or 10
15 percent increase in the time," and we kind of
16 bound that by the sample drawn, and we're
17 going to run certain records blind the second
18 time.

19 I mean that has -- it should be
20 proportional to the amount of effort for that

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1 quality assessment procedure, but that --
2 that's -- that kind of remains the sort of
3 thinking that I'm having. You need to do that
4 before you take any actions. You can bound
5 the cost of that on the times that's required
6 by the sample drawn, and then you take
7 intervention and evaluate forward.

8 So, that's what -- that's what I
9 was still hoping to see: something laid out in
10 terms of coming out of the ten-year review.
11 We feel like there's some questions about the
12 quality of the product and we don't have a way
13 of evaluating that yet, and an action item
14 would be NIOSH is going to commit 5 percent of
15 next year's effort to assessing that, and then
16 doing that on a fairly kind of routine basis,
17 in order to track their progress.

18 DR. MAURO: This is John Mauro.
19 This might be helpful. It's just information.
20 Stu and David, you know we basically review 1

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1 percent of all completed DRs in the selection
2 process used by the Board. Just for your
3 information, the cost, and we do a very
4 independent and very thorough review, where
5 basically we're a complete separate entity.

6 In theory, having something of
7 that form within NIOSH, a separate group that
8 does basically what we're doing, the -- if you
9 were to set something up like that and decide
10 what percent you would want to sample, in our
11 case the sample was 1 percent, but it costs
12 anywhere between I would say 50 to 100 work
13 hours per audit, and it's pushing closer to
14 100 these days because of the complexity.

15 Our hourly cost is about \$130 per
16 hour. So, I mean I think that is some raw
17 materials that if you wanted to consider a
18 sample and do the kinds of things that are
19 only internal to NIOSH that SC&A has been
20 doing, that's the type of cost you might

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1 experience if you were to do something along
2 those lines.

3 MEMBER RICHARDSON: I guess that's
4 one way of looking at it. The other way is
5 that you just -- you have a sense of what the
6 cost per case is in terms of person
7 hour/person time at NIOSH, and they're going
8 to move the record back through. It could be
9 exactly through the same process that
10 everything else is processed through.

11 I mean there is an advantage to
12 having an independent group doing their
13 oversight, but there's also an advantage in
14 getting a sense of the reproduced availability
15 of a result as it moves through -- a second
16 time through the same process.

17 MR. HINNEFELD: Well, I think all
18 are good suggestions, and I think it's helpful
19 to hear additional discussion about avenues to
20 pursue here. I think David really hit a mark

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1 with me in his comment about we don't have
2 measuring stick today.

3 CHAIRMAN GRIFFON: Right.

4 MR. HINNEFELD: We don't know what
5 our statistic is today that we would improve
6 on intervention.

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: And so, that
9 sounds -- that's an important thing to pursue,
10 and the way to do that is you want to choose
11 people who are familiar with the process
12 probably.

13 CHAIRMAN GRIFFON: Right.

14 MR. HINNEFELD: And so, what we
15 would do is we could carve out some section of
16 our people or a couple people, and give them
17 assignment like that. Alternatively, this
18 probably would not work because it influences
19 the independence of SC&A. The other thing
20 that comes to mind is to task SC&A on our own,

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1 not through the Board. But that might not be
2 doable because --

3 CHAIRMAN GRIFFON: No.

4 MR. HINNEFELD: So, it has given
5 me a lot of refreshing thought because this is
6 something that you deal with everyday and you
7 don't really, and you don't take time to think
8 about it. So, I think I certainly will take
9 the feedback, and I think that we can probably
10 make that part of our response because we've
11 been struggling a little bit. Like I said,
12 I'm struggling with what I do --

13 CHAIRMAN GRIFFON: Well, what
14 jumped out at me was the baseline too.

15 MR. HINNEFELD: And we don't have
16 a measurement and that's really important.

17 CHAIRMAN GRIFFON: Because you --
18 you -- even at our presentation, they talked
19 about all the tools to avoid data entry
20 mistakes, which everybody around the table

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1 felt like that was reducing errors, but there
2 was no benchmark to demonstrate that it
3 definitely did --

4 MR. HINNEFELD: Right.

5 CHAIRMAN GRIFFON: So, I think
6 that's a good point. I mean I --

7 DR. H. BEHLING: This is Hans
8 Behling. Can I make a comment to an issue
9 that I raised some time ago?

10 CHAIRMAN GRIFFON: Sure, yes. Go
11 ahead, Hans.

12 DR. H. BEHLING: One of the things
13 I always thought was missing here in this
14 whole issue of QAQC is the following:
15 Obviously SC&A has had a chance to review most
16 of the documentation to determine whether or
17 not the guidance documents used by dose
18 reconstructors are in fact consistent with
19 contemporary science, consensus science, and I
20 believe it is.

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1 And the other thing is, are the
2 guidance documents clear and -- and crisp
3 enough for dose reconstructors to follow
4 consistently, meaning that there's no real
5 room for subjective interpretation of the
6 guidance provided in such documents?

7 And one of the things that I've
8 always thought might be really helpful is the
9 following: It's to basically get a dose
10 reconstruction that has yet to be done by
11 anyone at NIOSH, and assign that to ten
12 independent dose reconstructors and assess
13 their outcome. And that would give you an
14 understanding of how readily are the guidance
15 documents being followed. Are they being
16 followed consistently?

17 In other words, if we have
18 guidance documents that are scientifically
19 correct and properly written so that there's
20 really no room for subjective interpretation,

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1 then 10 individuals following those same
2 guidance documents should come within a
3 reasonable dose estimate of the original dose
4 in question that would be within a matter of
5 maybe 5 percent of high and low.

6 And if that's the case, then
7 obviously we have a very firm handle on
8 whether or not the -- the working methodology
9 that we're currently using for dose
10 reconstruction is functional, and it would
11 obviate the question of is it the luck of the
12 draw for a claimant to define his dose for
13 reconstruction that determines compensability.

14 I've often look at -- when I was
15 still very much involved in the dose
16 reconstruction, I often questioned what would
17 happen if the same dose reconstruction were
18 offered to different groups of different
19 individuals out there? How much difference
20 would you have in terms of compensability,

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1 especially those that are above 40 percent or
2 45 percent?

3 Would there -- is there enough
4 slop in the dose reconstruction guidance
5 documents that allows for some leeway that
6 would potentially have one person below 50 and
7 the other dose reconstructor above 50? And
8 that whole issue should potentially be
9 resolved if we went to at least one exercise
10 where ten different dose reconstructors were
11 given the identical dose reconstruction to do,
12 and then assessing the consistency by which
13 the dose reconstructors end up with an organ
14 dose and a PoC value, and I think that has
15 never been done, and I think it might be worth
16 doing.

17 DR. MAURO: Hans, I'd like to add
18 a little bit to that. I think you're on the
19 track of something very important. You see,
20 you need a metric, as David pointed out, and

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1 one way to get a metric and a baseline is to
2 do -- let's say you do just that. You do a --
3 once a year, you do a blind. I call it a
4 blind. We have ten people each independently
5 reconstructing some selected, or maybe one or
6 two cases, similar to the blind dose
7 reconstructions SC&A did, which we'll get to
8 later.

9 And that -- and then analysis of
10 that would give you insight into the
11 variability that exists for different people
12 doing the same case, and a diagnostic as to,
13 okay, the magnitude or the differences and the
14 reasons for the differences. And then of
15 course that finding would drive any actions on
16 how to improve.

17 So, it allows you to start to
18 focus in on the causative agents for the
19 differences, and it may be ambiguity in the
20 procedures, etcetera. And then you do it the

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1 following year, and the following year, and
2 then maybe just once a year, and it becomes a
3 system that -- to track improvement. And you
4 would hope that the spread gets tighter and
5 tighter in each of the causative agents if
6 there's some root cause and you can identify
7 that way and fix.

8 So, I mean this would be something
9 that I think would be very manageable and not
10 -- perhaps not that costly as compared to the
11 -- the earlier item I mentioned, where you
12 would actually sample and check. That would
13 be a direct method, but to actually have a
14 metric and to track performance and diagnostic
15 that may not be that costly.

16 So, this is a suggestion, and
17 Hans, I think it's a good one.

18 DR. H. BEHLING: Yes, and I think
19 what you're really looking for is the
20 variability that I believe may come into play

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1 here in terms of errors that we identify in
2 the reconstruction audits is that maybe our
3 guidance documents aren't as prescriptive.

4 If you have a very, very
5 prescriptive guidance document that leaves no
6 room for error, no room for subjective
7 interpretation, then it is reasonable, it is
8 axiomatic to conclude, that you would end up
9 with ten different people's dose estimates
10 that are very consistent with each other. And
11 I think right now we don't know how
12 prescriptive it is.

13 As John just mentioned, if we had
14 ten people doing this, and then compare and
15 say: Where do they differ? Why is it that one
16 person interprets a guidance document in one
17 way, and another person interprets it another
18 way, and you end up with a difference that may
19 make the difference between compensability and
20 non-compensability?

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1 I think it would be a very easy
2 way to determine just how good are our
3 guidance documents that would allow ten
4 different people to come to the same
5 conclusion.

6 DR. MAURO: This is offline.

7 CHAIRMAN GRIFFON: I think Brant
8 has something to say, similar to what I'm
9 thinking.

10 DR. ULSH: I don't know.

11 CHAIRMAN GRIFFON: I mean from a
12 practical standpoint. Yes, go ahead.

13 MEMBER CLAWSON: This is Brad.
14 I've just -- I've got to echo kind of what
15 John and Hans is kind of saying. This is kind
16 of like when we pull a sample out there.
17 We've got three or four known blanks or
18 certain ones that are going to go through to
19 see how they're processed and everything else
20 like that.

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1 I think this would -- you know,
2 I've got to agree with what Hans is saying.
3 This would show us, because so many times in
4 dose reconstruction, when we've been reviewing
5 these, I've heard, "Well, this is just how the
6 dose reconstructor does it," and there's such
7 a variance there.

8 But if -- I think that way, it
9 would give Stu what he's looking for of where
10 he can hone in on a benchmark for it, but also
11 so we can show a sign of improvement too.
12 I've got to agree with both Hans and John. I
13 think it's a good idea to kind of look that
14 way.

15 MR. STIVER: This is John Stiver.

16 If I could say something here? We have -- I
17 have some direct experience in this through
18 the DTRA Program with the Atomic Veterans. We
19 had exactly the same issue come up as result
20 of the National Academy Review of 2003. They

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1 were looking at the quality metrics. We
2 instituted a blind dose reconstruction
3 exercise, and initially, we had different
4 people coming in for the same type of case,
5 same exposures.

6 So, there was about a factor or
7 two of each other, and we were able to
8 identify just areas of the procedures that
9 needed improvement, and we were able to bring
10 it down to about 5 to ten percent over a
11 period of a couple years. And the costs were
12 not that high.

13 Now, I realize it was a different
14 paradigm in terms of the scope of the -- or
15 the magnitude of the program here, but it
16 worked very well for us, and I think it's a
17 good idea that might be worth pursuing here.

18 MEMBER PRESLEY: Hey Mark?

19 CHAIRMAN GRIFFON: Yes?

20 MEMBER PRESLEY: This is Bob

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1 Presley. I've got to say something. We've
2 been doing this for ten years. We ought to
3 have a pretty good handle on our QC on this
4 program. Instead of going out here and
5 spending another \$1 million plus, and no
6 telling how much time, and we don't know what
7 it's going to tell us.

8 You know we've had blind reviews
9 before, and we haven't gotten a whole lot of
10 feedback off of them. I would love for us to
11 find out some of the feedback that we've
12 gotten before on some of this stuff that we've
13 got ongoing, before we go out here and we
14 reinvent the wheel ten years down the road.

15 DR. MAURO: I could help a little
16 bit, a couple of items that might be useful.
17 One is based on our cost, if you were to do
18 ten per year, blinds, in the matter we just
19 discussed, it would probably cost about
20 \$150,000 a year. So, I don't think -- and

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1 it'd be offline.

2 CHAIRMAN GRIFFON: With ten
3 different people?

4 DR. MAURO: Yes, where you pick
5 one case and have ten different people. I
6 base that simply on 100 hours per case per
7 person. I think I did it right. I have to
8 check again. I just did a quick calculation.

9 I mean if you want to get an idea of the
10 cost, the burden, the economic burden on the
11 program, you could assume ten people are each
12 doing a case.

13 Each person might require as many
14 as 50 to 100 work hours, and each work hour
15 would probably cost about \$130. I'm just
16 assuming the cost that NIOSH would experience
17 is not unlike what SC&A experiences. So,
18 that's the kind of cost.

19 The benefit would be it'd be
20 offline. It would not be a step in the

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1 process. You still have your normal QA that
2 you're doing of course, which -- but if this
3 is offline, that -- the process would be
4 independent of the production. And it would
5 not slow things down, but of course it would
6 impose this additional cost, which I -- unless
7 I did my numbering wrong is really not that
8 large and should give you a lot of
9 information.

10 DR. H. BEHLING: Well, also John -
11 - this is Hans again. If in fact such a QA
12 program would result in fewer errors, think
13 about the cost savings associated with the
14 resolution of the errors that we're currently
15 finding in our DR audits, meaning that the
16 investment of \$150,000 would improve the
17 quality of dose reconstruction resulting in
18 fewer findings in our audits of such dose
19 reconstructions, there would be a gain in
20 reducing the number of hours for conference

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1 calls and revolution of these problems would
2 have to be factored into that cost.

3 Hopefully such a QA program would
4 result in fewer mistakes, reduced numbers of
5 findings, and reduced time in their
6 resolution.

7 CHAIRMAN GRIFFON: Ted has
8 something.

9 MR. KATZ: Yes. I mean the thing
10 I was just wondering about, this methodology
11 like throwing the same case at ten people or
12 whatever; considering this program, the
13 diversity of sites and all that and you're
14 assuming -- I mean there's one thing --
15 there's the kind of errors that are made that
16 are just strictly straightforward errors in
17 procedure, not a matter of judgment or what
18 have you, and those I suppose you could take
19 any kind of sample and look at them
20 intensively and get a better handle.

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1 But if you're -- if you were to
2 assume that you're going to have very
3 different performance on different sites,
4 different kinds of dose reconstructions at
5 all, yes, the real problem with throwing ten
6 people per case and getting any good picture
7 of a diverse program like this and -- so, I
8 mean the idea of peer review I think that's
9 absolutely right. But I'm not sure that kind
10 of horsepower would be affordable in a broad
11 sense for this program.

12 CHAIRMAN GRIFFON: Yes. Wanda and
13 then Stu.

14 MEMBER MUNN: Ted has touched on
15 something that is of concern to me. One of
16 the big questions I have is do we have enough
17 data on the reviews that have been done to
18 make any estimates at all, even of trends,
19 towards the base cause of the types of errors
20 that we are seeing?

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1 I have not seen anything that has
2 laid out for me any kind of an overview that
3 would lead me to believe that we even know
4 which are the most predominate errors we're
5 seeing. What's -- what's the cause of the
6 error that we see if we're going to do the
7 kind of oversight program that John and Hans
8 are suggesting?

9 I can see that there would be
10 great benefit in that, but that doesn't leave
11 me with the feeling that such an oversight
12 would tell me anything more than I already
13 know about what causes the errors in the first
14 place.

15 Are we seeing repeated human error
16 calculation? Are we seeing repeated
17 misinterpretation of instruction? What are we
18 seeing?

19 I have no strong feel about the
20 source of the errors. Is there any way we can

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1 get a feel for that before we begin to make
2 decisions about how we might address
3 direction?

4 DR. H. BEHLING: Well, this is
5 Hans, and at least from my exposure during the
6 time when I was very heavily involved in DR
7 reviews, it's that I think the principal
8 source, if I can just generically identify a
9 cause, is the potential subjective
10 interpretation that sometimes comes with
11 following a guidance document that allows
12 people a certain amount of latitude in things,
13 such as my interpretation of how I want to
14 reconstruct this guy's dose.

15 And I believe the prescriptiveness
16 or degree of prescriptiveness of guidance
17 documents may require some tightening and
18 saying there is reduced action for
19 interpretation.

20 CHAIRMAN GRIFFON: I appreciate --

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1 DR. MAURO: Let me add to that.

2 CHAIRMAN GRIFFON: Hold on. Hold
3 on, John. Just let Stu -- Stu had a comment.

4 MR. HINNEFELD: I had a comment
5 with -- about one of the -- I was going to say
6 in terms of cause of errors, that first group
7 of selective findings, we're pretty close to
8 accounting for what was the cause of those
9 errors. After we'd run through them, I kind
10 of gave them a look and added my piece to it.
11 It's just something I just finished, so we
12 haven't sent it over.

13 But there are some things that are
14 interpreted a particular way. Some of them
15 came because the dose reconstructor made some
16 sort of judgment and defining questions to
17 that judgment. There are some like that. The
18 one that caused -- that struck me, and this is
19 strictly anecdotal - I don't know if it's not
20 -- is the one I mentioned coming in, was that

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1 the instructions were clear.

2 They -- he just made a mistake.
3 He put something on the wrong line, or he
4 didn't include something that he knew he
5 should've included, etcetera, etcetera,
6 etcetera. And it wasn't caught. That was
7 fairly prevalent cause in the findings, that
8 first collection of findings, that we were to
9 look at.

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: So, those are the
12 kind of things there. Now, back to the point.

13 I was just going to reinforce the point I was
14 going to make. I was going to reinforce Ted's
15 point about the difficulty of making broad
16 judgments from taking a particular claim and
17 having multiple people do it. Because the
18 instructions are pretty site specific.

19 And so, the -- so the clarity and
20 the lack of ambiguity of the instruction that

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1 you will learn will be for that site,
2 instructions for that site. The Hanford
3 instructions are either ambiguous, or they can
4 be very clear because we -- so, we're not
5 talking about one case, ten dose
6 reconstructors.

7 You're talking about -- if you
8 want to get a broader view, one case, ten dose
9 reconstructors gives you a view of one site.

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: And one other
12 thing is that we probably don't have ten dose
13 reconstructors who are experts on any specific
14 site.

15 CHAIRMAN GRIFFON: Right.

16 MR. HINNEFELD: And you want to
17 have somebody who knows what they're doing.
18 You don't want somebody to have to learn it in
19 order to do this duplicate analysis. You want
20 --

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1 CHAIRMAN GRIFFON: Especially
2 where it comes to professional judgment.
3 Because assumptions on internal doses --

4 MR. HINNEFELD: Yes. And so, I
5 don't know. Now, ten is an artificial amount.
6 So, I mean as long as you don't hold it to
7 ten, I think there's a way to go about this,
8 but we got to think about how we're going to
9 do this.

10 And the final thing I'm going to
11 say, and I think I'll probably be quiet for
12 this, is whatever we decide, the options that
13 we decide we're going to try, we're going to
14 have to cost this out and decide what's it
15 going to take to do this, and what do we not
16 do instead? Because we spend all our money.

17 Every year, we spend all our
18 money. And so, if we're going to do -- so,
19 when we cost this out, what are we not going
20 to do instead. So, that's part of the --

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1 that's part of the equation as well.

2 CHAIRMAN GRIFFON: I think the one
3 concrete thing, just to go back to David's
4 initial statement, the most concrete thing
5 I've heard is that we need a baseline.

6 MR. HINNEFELD: Yes. I agree. I
7 like that.

8 CHAIRMAN GRIFFON: And then you
9 can -- I like that part a lot.

10 MR. HINNEFELD: Absolutely.

11 CHAIRMAN GRIFFON: And how you get
12 there, I have several of the same concerns.
13 The site, the type of cases, I mean internal
14 dose -- predominately internal dose cases, you
15 rely more on professional judgment and you're
16 likely to have a bigger spread in your errors,
17 and ten dose reconstructors? You could be --
18 I don't know.

19 And then you get into the AWEs.
20 You got a lot of AWEs. The AWEs -- they

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1 should be automatic. So, they might be a lot
2 tighter.

3 MR. HINNEFELD: Right.

4 CHAIRMAN GRIFFON: But that
5 doesn't necessarily mean you're -- if you only
6 look at like ten of those cases, then you can
7 say, "Oh, we're doing great." You know? It
8 could be a false indicator.

9 MR. HINNEFELD: Right.

10 CHAIRMAN GRIFFON: There's a lot
11 of parameters working in here that you need to
12 consider. The other thing is -- hold on.
13 Just one more thing.

14 The other thing that struck me
15 was, as a possibility, maybe not necessarily
16 to get -- to measure on the whole
17 effectiveness of this program, but to the
18 customer side of this, is that -- and we
19 talked about this in earlier stages, and we
20 laid out this notion of -- of having different

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1 levels for different levels of cases.

2 For instance, the 45 to 50 percent
3 PoC range you may want to -- you may consider
4 those more critical, and therefore, you might
5 have a different level of review or level of
6 sampling, as David was saying. You know,
7 something like that.

8 I could even see a situation where
9 some things close to the percentile, you
10 automatically put a procedure in place that
11 says
12 we redo this case with another dose
13 reconstructor, and if one has 49 and one has
14 51, you say, give the benefit of the doubt and
15 compensate the claim, or something like that.

16 That's another -- that's sort of
17 another thing, but if it -- it made me think
18 about what Stu had presented earlier, and I
19 think this is probably over a year ago, but
20 the idea of possibly looking at different

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1 levels of review for different -- you know,
2 the significance level of the PoC to some
3 extent to have more robust reviews for certain
4 types of cases.

5 Was that David that had a comment?

6 MEMBER PRESLEY: No, it's Bob.
7 You are right on the money on that.

8 CHAIRMAN GRIFFON: Thank you.

9 MEMBER RICHARDSON: And I did have
10 a comment.

11 CHAIRMAN GRIFFON: Yes.

12 MEMBER RICHARDSON: In thinking
13 about this, I was -- I think right now, what
14 this Work Group is doing moves between two
15 types of evaluations, and there's -- and it's
16 very valuable I think, the information and
17 insights that are coming from these
18 evaluations. But they're -- some of it
19 relates to what I would call external validity
20 or -- or kind of this -- this logical and

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1 scientific basis of the -- of the dose
2 reconstructions.

3 And so, you have somebody outside
4 of the process who is taking an independent
5 look at the dose evaluations, and saying, "Are
6 they scientifically credible? Do we agree
7 with them?" And then there's also, in that
8 same process, there's some evaluation of
9 reproducibility of the results by an
10 independent auditor.

11 So, that's the kind of sense of
12 this audit. And that -- I think that's
13 appropriate with kind of small samples because
14 there's a different type of evaluation, which
15 is the evaluation of -- of a -- what is -- and
16 from my view, it's kind of a large scale
17 production process in creating a work product
18 for a consumer, and there's a question there
19 about the -- this is where I was thinking
20 about kind of the quality assessment, the

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1 internal consistency, and the reproducibility
2 of the process. Not in the sense of is it
3 accurate, is it getting to the most
4 scientifically valid result, but in this
5 sense, just is it consistent? Because that
6 also has an invitation for fairness.

7 And so, that -- that evaluation
8 can't really be done by an auditor, in my
9 opinion. It has to be -- you have to run the
10 same input through the process and see if
11 you're getting the same output by the people
12 who are doing it. And this is where I would
13 still come back to saying that you need --
14 that NIOSH needs to budget that.

15 It's probably not even really -- I
16 mean I think this Working Group could have
17 some say on it, but it should be part of the
18 process of running -- running the operation.

19 And in terms of cost, I agree it's
20 expensive. You have to decide what you're not

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1 going to do, but I don't see how you can avoid
2 it. Again, the way I would pose it is what
3 would NIOSH do if there was a five percent
4 increase in the number of claims next year?

5 I think that there would be a
6 modest lag, but that's what you would be
7 generating through the hypothetical of
8 resampling a random five percent of the cases,
9 and putting them back through the process.
10 Could they handle it, and what would the cost
11 be?

12 I mean there is going to be a
13 cost, but I think that's part of -- at least
14 for a period of time, figuring out the
15 internal consistency of the process because
16 when we were talking to ORAU, they haven't
17 been doing that yet, and that's -- it doesn't
18 catch the kind of -- one type of mistake, but
19 it catches -- we should get some sense of
20 what's -- what's the prevalence of those

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1 mistakes where the instructions were clear,
2 but the people handling the claims are making
3 some sort of kind of random mistakes due to
4 kind of just not -- you know, errors?

5 MR. HINNEFELD: Your takeaway
6 point on that again was what is the action
7 that we would take in order to do the internal
8 consistency review? Is that a -- a multiple
9 dose reconstructor doing the same claim? Is
10 that what you are talking about?

11 MEMBER RICHARDSON: Well, I'm
12 going back to my initial case that there needs
13 to be a random sample of the cases. It can't
14 be something that's evaluated by pulling one
15 or two cases out and doing an assessment of --
16 that's going to be most useful for
17 understanding the validity of the
18 reconstruction. But I'm interested in the
19 reproducibility of the dose reconstruction.

20 MR. HINNEFELD: So, in your --

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1 MEMBER RICHARDSON: And that
2 requires going in and running them through
3 multiple times.

4 MR. HINNEFELD: Okay, so again,
5 you would randomly sample a set of dose
6 reconstructions, and then our -- our action
7 would be to redo them several times with
8 different dose reconstructors, or do we do
9 them in order to -- for this sampling, this is
10 our issue: consistency of the output?

11 MEMBER PRESLEY: Stu?

12 MR. HINNEFELD: Yes?

13 MEMBER PRESLEY: This is Bob
14 again. You said something that really bothers
15 me. Randomly sampling. Now, is it worth
16 sampling somebody that's got a PoC of 3, or is
17 it worth sampling somebody that's got a PoC of
18 49.5?

19 MR. HINNEFELD: Well, I mean you
20 can randomly sample without being completely

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1 random. I guess you can -- I guess it
2 wouldn't be random. It'd be random within
3 your selection parameter.

4 MEMBER RICHARDSON: I would
5 advocate that you want to get a -- what if
6 that -- until you know that probability of
7 compensation of 3 percent is actually a valid
8 number by some -- by first evaluating the
9 process and seeing if there's a gross error,
10 you just -- you just -- you want to run the
11 claims through so that they're -- you've got a
12 duplicate on a subsample, a random subsample,
13 of all the cases. That's going to --

14 MEMBER PRESLEY: You spend
15 \$130,000 to do that on something that low.
16 That really is bothering me.

17 DR. H. BEHLING: You're dealing
18 with maximized doses, which are by nature
19 subject to a wide range of interpretations
20 that have no meaning.

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1 DR. MAURO: You don't want to use
2 those. They've got to be best estimates.
3 They've got to be.

4 DR. H. BEHLING: Best estimates.

5 CHAIRMAN GRIFFON: I think we're
6 talking about two different things. I mean
7 that's what David's point was. You're talking
8 about consistency versus validity. And maybe,
9 I don't know that the two options -- what I
10 would like to do from the Subcommittee is
11 write out some options that NIOSH can
12 consider. I think that's where we should go
13 with this.

14 Then NIOSH can examine these
15 further and come back. But I mean I think
16 David has got one scheme. Maybe they're not -
17 - maybe it's not one or the other. Maybe you
18 use some combination, and use other techniques
19 to check validity as well internally. Even
20 though we're doing that to some extent here,

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1 you may want to do some validity check
2 internally.

3 MEMBER MUNN: This is Wanda.

4 CHAIRMAN GRIFFON: Hold on.
5 Wanda's got the floor.

6 MEMBER MUNN: I have to agree
7 pretty strongly with what David had to say.
8 If a truly objective perspective of random
9 selection means exactly that, a random
10 selection. If an error has been made on a low
11 percentage PoC case, it is just as important
12 to know why that error was made, as it is to
13 know why the error was made on a high PoC
14 case.

15 I would argue that it would defeat
16 one of the major purposes of such a -- the
17 cost of such a review if we limited our
18 "randomness" to a specific level report that
19 we had seen. It will tell us as much if we
20 see the same kinds of errors in low PoC

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1 numbers as if we had high ones, and one can't
2 be -- if -- it depends on what our purpose is.

3 If our purpose is to try to define
4 where the error is occurring and why it
5 occurs, then the sample, if we do suggest such
6 a thing, would need to be, in my view, random.

7 DR. MAURO: Wanda, this is John.
8 The idea is -- see, when a person does a
9 deliberate maximizing or minimizing, there is
10 subjectivity there, where the person stops,
11 and that's allowed.

12 So, you would expect there to be
13 differences because you stop -- you pick your
14 -- you wouldn't expect the same result to
15 come, or even come close if you're doing a
16 maximizing and you come up with a low dose, or
17 you do a minimizing and you come up with a
18 high dose.

19 You're just trying to quickly
20 screen and put this to bed. So, you would --

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1 the outcome of that -- certainly, you could
2 review the results of these and see the
3 decisions and judgments that were made, but
4 you would not expect two different people to
5 come to the same place, but you would expect
6 people to come to the same place when doing a
7 realistic best estimate.

8 CHAIRMAN GRIFFON: Yes, I mean --

9 MR. KATZ: I mean keep in mind
10 this is not just an evaluation for the sake of
11 evaluation and just for determining root
12 causes. It's -- you're talking about a QA
13 process here, and for a QA process, your
14 primary worry is the outcome of quality flaws,
15 and there are different levels of quality
16 flaws if you look at a proper QA system, and
17 ones that don't impact the world don't matter
18 very much.

19 So, I would focus your resources
20 on where it matters the most, and that is

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1 getting the right decision, which sort of
2 lends to what John is saying about focusing
3 more of your resources on those close cases
4 because at the end of the day, that's what you
5 worry most about. You want to get the right
6 decisions out.

7 I mean I agree that randomly you
8 could still get a root causes no matter what
9 cases you look at, but it's a QA process.
10 It's not just an evaluation process. And you
11 want to -- you want to assure that your
12 products have quality, and the primary
13 quality, the most important quality, is that
14 they come to the right decision, and
15 everything else is of lesser importance,
16 although still important.

17 So, that -- that was one thought I
18 just wanted to throw out there. And a second,
19 just sort of related to David's thing about
20 sampling, is typically in a QA process, until

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1 you know the reliability of your system, you
2 do have an intensive inspection process, and
3 what -- typically with QA systems, as you get
4 a better handle on your reliability, you can
5 reduce your sampling rate.

6 In extremely reliable systems of
7 course you sample very little, and it costs
8 very little because you already know. And
9 that's the way QA systems work. So, I mean I
10 think you should think in those terms.

11 That might mean that in this case,
12 on the front end, it's the more expensive
13 process. You have to endure delay and so on
14 until you get a handle on your level of
15 reliability of your system. But down the road
16 as you improve, it'll require less inspection
17 and less -- less QA effort and intensity.

18 That's the way QA systems work. I
19 mean so they're front loaded with effort. As
20 you improve your system, there's less work to

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1 do and inspection.

2 DR. H. BEHLING: With regard to
3 David's recommendation too, we sample old
4 cases that have already been reviewed or have
5 already been dose reconstructed. The
6 potential risk, I would throw out, is that
7 given the fact that there -- these results are
8 documented and readily available to -- to a
9 person who is now redoing it would potentially
10 introduce a risk of bias.

11 If you already know a previous
12 dose reconstructor came up with a PoC of 48 in
13 a given does, organ dose, for the cancer of a
14 certain value, redoing that case by someone
15 who already knows the end result of a previous
16 evaluation would have a tendency to bias that
17 individual, and that was the reason why I
18 suggested early on when I made comments to
19 take a case that has not yet been done, and do
20 it by at least several people to see

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1 consistency.

2 Because at this point, you do not
3 have the risk of someone already knowing what
4 the endpoint is that he might want to aim
5 towards.

6 MEMBER RICHARDSON: Hans, there
7 are two issues there, both of which maybe I
8 wasn't clear about. The first was these are
9 blind reviews. The second is we spent a lot
10 of time already, and I felt somewhat
11 frustrated by it, reviewing old cases and ORAU
12 coming back and saying, "That's not the way we
13 do things anymore."

14 The process I was envisioning and
15 hoped to describe is one in which as cases --
16 that you do this sample of cases coming in,
17 and there's a probability of sampling somebody
18 for going through the system twice.

19 And I was imagining, again,
20 something like ORAU, when as they're sampling

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1 -- as they're getting 100 cases coming in,
2 they're going to do a processing on 104-105,
3 because it's a 5 percent sample. Can they
4 handle that? What's the cost? Those are the
5 questions. But then you would have basically
6 a five percent resample.

7 CHAIRMAN GRIFFON: Yes.

8 DR. MAURO: This is John. If it
9 helps, when we get to the blinds, you're going
10 to find that we did exactly this. We had two
11 cases, which were independently done. And the
12 bottom line, by the way you're going to find
13 this interesting, for both cases the
14 independent a factor of 2 difference.

15 In other words, we got one data
16 point here anyway from a blind, where we --
17 well, two data points, where we did two cases.

18 And coincidentally, two of them, actually the
19 outcomes you'll see later, is that two
20 different independent analyses both came out a

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1 factor of 2 different.

2 So, this is an -- at least two
3 examples of what you might expect.

4 DR. H. BEHLING: John, I will
5 correct you on this. You didn't follow the
6 guidance document on plan B.

7 DR. MAURO: That is correct.

8 DR. H. BEHLING: Those differences
9 will not necessarily reflect what we would
10 expect under the conditions for two dose
11 reconstructors following the same guidance
12 document.

13 DR. MAURO: That is correct.

14 DR. H. BEHLING: It's not a
15 correct analogy.

16 DR. MAURO: That's another point,
17 by the way, David and -- we've been talking
18 within the context of given the procedures,
19 will everyone reconstruct the doses the same
20 way? Now, I'd like to point out though when

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1 we review the cases for AWEs, where basically
2 there really is no data and there really is no
3 person-specific dose reconstruction; it is a
4 matrix.

5 That's a generic matrix very
6 often, where -- and what we review, and I do a
7 lot of these, is the matrix that's being used.

8 The default set of assumptions. So, in
9 effect, I -- and I have to say in being part
10 of this quite a while, the places where the --
11 the -- where there are differences in doses,
12 when -- when we review DOE site cases, we'll
13 find -- we find some errors, whether they be
14 manual errors just made by the dose
15 reconstructor or interpretive errors.

16 The errors, I have to say, are
17 relatively small. You know, factors of 2.
18 When I review AWEs, where I'm looking at the
19 procedure they're using to reconstruct it, and
20 I look at the fundamentals of did they come up

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1 with a matrix that seems to be appropriate for
2 a particular facility, Bridgeport Brass, I
3 find -- my findings are on the order of
4 factors of 10 and higher.

5 So, now, when you talk about
6 quality issues, I think it is important to
7 make a distinction between following your
8 procedures and getting the same result, and of
9 course the deeper issue is are the procedures
10 appropriate?

11 It sounds like from the point of
12 view of quality, the conversation we're having
13 now is given the procedure, are they -- are
14 those -- as being valid, the question that is
15 being asked is are those being followed in a
16 consistent way? If that's what you're
17 objective is, fine. But --

18 CHAIRMAN GRIFFON: That's what I
19 said. John, that's what I just said. There's
20 two different factors, and I don't think

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1 they're mutually exclusive. I mean the
2 consistency versus validity, and I think
3 they're two things that are coming up again
4 and again by different options.

5 DR. MAURO: The big one -- the big
6 ones are validity. I mean consistency, yes,
7 we're picking that up. And you have our
8 quality report and all the data that we've
9 summarized as part of your review for the
10 first 100 cases. It lends a lot of insight
11 into that.

12 But I have to say that the place
13 where I believe the greatest is the underlying
14 assumptions that are built in, at least at the
15 AWE sites. I've picked up, as you know -

16 CHAIRMAN GRIFFON: Yes, it's like
17 profile reviews. Yes, that's why you're doing
18 mini Site Profile reviews on the AWEs.

19 DR. MAURO: Yes.

20 CHAIRMAN GRIFFON: That's why we

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1 have the Site Profile reviews for the other
2 sites.

3 DR. MAURO: Exactly.

4 CHAIRMAN GRIFFON: If there are
5 bigger things, that's where they come out.

6 DR. MAURO: Yes, yes.

7 CHAIRMAN GRIFFON: Yes, or in the
8 SEC reviews.

9 DR. MAURO: Yes.

10 CHAIRMAN GRIFFON: Here's what I
11 would propose. I want to put together a memo
12 to the Board, and I'll try to summarize some
13 of what we've come up with and propose options
14 for NIOSH to consider in implementing the
15 action plan, sort of as Lew described or
16 whatever. And I'll circulate that to the
17 Subcommittee and get input. We can work on
18 the language of it and then try to deliver it
19 to the Board in the August meeting.

20 If I can move people off the QAQC

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1 item for a second, I think I got sort of a
2 handle on some ideas to put in there. You
3 know, I'll be sharing this and getting input
4 from everyone, but I -- I'd like to know on
5 other issues on dose reconstruction, and the
6 one I brought up earlier was this question of
7 using over-estimating techniques and whether
8 we as a Subcommittee have an opinion on that
9 matter, whether we -- I mean I know Stu has
10 even raised it in our Subcommittee that maybe
11 at this point where they've kind of caught up
12 in their level, maybe the merits of using the
13 over-estimating techniques may not be there
14 anymore, and it may be better off just to use
15 the best estimate.

16 MR. HINNEFELD: I have something
17 to offer on that.

18 CHAIRMAN GRIFFON: Okay, go ahead.

19 MR. HINNEFELD: The -- in the
20 context, and I'm talking about the context of

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1 what we're facing in DCAS now, we have a ten-
2 year review with about 20 priority
3 recommendations. There are probably 70 total.

4 Twenty priority recommendations, a
5 few of which may be pretty much accomplished,
6 but most of which would require effort, i.e.
7 cost, to do. And so, I believe that there is
8 value in not doing over-estimates because you
9 cannot explain it to the -- you can write in
10 the dose reconstruction, "This is an over-
11 estimate. If conditions change, the dose will
12 likely go down."

13 You can write that all you want.
14 If it was the first sentence in the dose
15 reconstruction, it doesn't matter.

16 CHAIRMAN GRIFFON: Right.

17 MR. HINNEFELD: Person says, "I
18 had 44. Now I have 38 with another cancer."

19 CHAIRMAN GRIFFON: Right.

20 MR. HINNEFELD: Okay? It doesn't

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1 matter. You cannot explain it. So, there is
2 value in not doing it, but there's a cost in
3 not doing it as well. And so, this is going
4 to be weighed in the light of everything that
5 we're going to be doing including actions for
6 these 20 priority recommendations, most of
7 which are going to cost money. Is this going
8 to make sense?

9 That was my response, and that's
10 actually how the recommendation --

11 CHAIRMAN GRIFFON: I think -- I
12 think the other value -- I think you hit it on
13 the head. I think the other value for not
14 doing them is that not only is it hard to
15 explain, but it also I think would improve the
16 trust of the folks getting the dose -- you
17 know, the --

18 MR. HINNEFELD: You can't explain
19 something they don't trust.

20 CHAIRMAN GRIFFON: Trust and

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1 credibility, I think. Yes, yes. They're
2 important.

3 MR. HINNEFELD: Now, I think our
4 best focus is to do some half measures.
5 Because I think it's going to be too costly.
6 But I think we can do some half measures. For
7 instance, we could say don't ever overestimate
8 a medical exposure. Why bother?

9 That's not enough of a short cut
10 in math. You know, then they take the bulk
11 numbers and they get a certain value, and if
12 they redo it later, they say, "Well, this
13 person didn't have one every year. They only
14 had one every other year," and they cut down
15 the number of medical -- you know, why bother
16 overestimation. That's not even enough to
17 worry about.

18 The other thing is once a case
19 comes back the first time, you cannot
20 overestimate it at all. You have to do a best

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1 estimate. Then that way, you at least won't
2 have the repetitive. Time and again, people
3 come back with additional answers and
4 repetitive lowering of the PoC.

5 So, there are some half measures
6 we could do, which I think are probably more
7 promising than doing away with them
8 altogether. Because you only get about 10 or
9 15 percent of the ones you do back.

10 CHAIRMAN GRIFFON: Anybody else
11 have comments on that? I mean I think I want
12 to include it in our memo.

13 MR. HINNEFELD: Absolutely.

14 CHAIRMAN GRIFFON: I'll probably
15 put something to the effect -- similar to what
16 you said, that NIOSH should consider.

17 MR. HINNEFELD: I agree.

18 CHAIRMAN GRIFFON: I mean we only
19 make recommendations anyway, but NIOSH should
20 consider moving toward this.

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1 MR. HINNEFELD: Well, you can put
2 some -- if you can put priorities maybe on the
3 -- maybe give us some priorities. "We really
4 think that if you can't do anything else, this
5 is the thing we think you should do."

6 I mean that's going to help
7 because I mean there's a lot of -- a lot of
8 stuff here. And like I said, all 20 of these
9 recommendations, I don't see any way they're
10 not going to cost somebody.

11 MR. HINNEFELD: Right.

12 MEMBER MUNN: Stu's comments are
13 certainly well taken here. There's no
14 question that we've had more grief than joy
15 out of our need to overestimate in the past.
16 But from the reports that we had, one gets the
17 impression that the case load balanced against
18 the available dose reconstructor personnel
19 list is not as bad as it was five years ago,
20 hopefully, and perhaps more manageable.

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1 Certainly, I agree with Stu's
2 concept that there may be something in between
3 the two extremes that would work, and be more
4 easily seen as fair to the claimants.

5 MR. HINNEFELD: Just so everybody
6 knows, things that usually -- money is taken
7 away to do dose reconstruction, and the dose
8 reconstruction on path. If it's taken away to
9 meet the objective, and it'll be taken away as
10 necessary to maintain to make sure we don't
11 build up another backlog.

12 The work that drops off the table
13 is the investigation of findings on Site
14 Profiles first. That's what drops off first.

15 CHAIRMAN GRIFFON: Right.

16 MR. HINNEFELD: And the second
17 thing is the continuing discussion of SEC that
18 we've looked at an Evaluation Report. Once
19 we've looked at an Evaluation Report, it drops
20 that back down to only slightly above a --

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1 CHAIRMAN GRIFFON: Right.

2 Anything else on overestimate? I'm just
3 raising some of these things that came out of
4 the recommendations from our group and from
5 the ten-year review. I think I can summarize
6 the position on overestimating.

7 Any other items? I mean I have --
8 one other item that comes to mind for me is
9 the question of, and this came up in several
10 of our findings in the first five sets review,
11 was the use of personnel -- or the
12 questionnaire.

13 MR. HINNEFELD: Oh, the CATI?

14 CHAIRMAN GRIFFON: Yes, the CATI.

15 CATI, thank you. I forgot the name.

16 MR. HINNEFELD: That is in here, I
17 believe. I believe that's in a different
18 section. It was in quality dose
19 reconstruction. There might be a quality --

20 CHAIRMAN GRIFFON: Yes, it might

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1 come under --

2 MR. HINNEFELD: It may not have
3 made the priority list.

4 CHAIRMAN GRIFFON: Yes, it may not
5 have. I'm just drawing off my head. I'm
6 remembering outside of your review that was --
7 in terms of number of findings, we had several
8 that fit into that category. I know that.

9 MEMBER MUNN: The issues -- and
10 where appropriate make improvement in such
11 vehicles. I'm assuming communication
12 vehicles.

13 MR. KATZ: Excuse me. Someone on
14 the line is not muted. Can you mute your
15 phone? Star 6 if you don't have a mute
16 button.

17 CHAIRMAN GRIFFON: Thank you,

18 MR. KATZ: Thanks.

19 CHAIRMAN GRIFFON: I mean I think
20 that gets to my point. I agree with the

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1 communications issue, but I've always said for
2 several years that it's more than just
3 explaining to the worker that the way we did
4 this dose reconstruction more than adequately
5 covers any incidents that you raised in your
6 report, or -- and then it turns into
7 boilerplate language in the dose
8 reconstruction report that goes out to the
9 individual.

10 And the reality is NIOSH never
11 goes back to -- or very few cases I guess was
12 determined that NIOSH goes back to actually
13 investigate anything along those lines, like
14 an incident or a -- you know.

15 MR. HINNEFELD: It's very unusual
16 --

17 CHAIRMAN GRIFFON: And I'm not
18 saying that would be done or ever be done.

19 MR. HINNEFELD: It's not very
20 common to -- to call, but incidents are

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1 sometimes best through contact with the site,
2 a specific search inquiry or essentially
3 information or other confirmation --

4 CHAIRMAN GRIFFON: Right, right.
5 This is just perhaps a little harsh, but from
6 the beginning I said this CATI should not be
7 about sort of a PR move to show the public
8 that you care and you want their input into
9 this process, and you never use it.

10 MR. HINNEFELD: Right.

11 CHAIRMAN GRIFFON: And never is
12 strong, I know that. But it's pretty rare.
13 And if there's no value in doing it, then
14 perhaps you don't do the CATI. I mean that's
15 a cost savings if you want to look at it from
16 the other side.

17 MR. HINNEFELD: I actually
18 suggested that one time a couple of years ago.

19 CHAIRMAN GRIFFON: Did you?

20 MR. HINNEFELD: I was laughed out

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1 of the room.

2 CHAIRMAN GRIFFON: That's
3 interesting. I'm encouraged that they laughed
4 you out of the room.

5 MEMBER MUNN: It's hard to imagine
6 not supporting the idea of direct
7 communication -- that seems like such a basic
8 form of communication. It's so much more
9 personal than --

10 CHAIRMAN GRIFFON: Yes, but I'm
11 trying to take it one step beyond the
12 communication that there's actually valuable
13 information that can come out of these
14 questionnaires. And I get the sense that from
15 a dose reconstructors standpoint, they really
16 don't see it that way. I mean they really
17 don't see much value in the data they're
18 getting back.

19 MR. HINNEFELD: Actually, I asked
20 dose reconstructors at the time we were going

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1 through this, the CATI form, and I even -- I
2 gave them the opportunity to say, "Hey, do we
3 even need to do anything like this?" And the
4 answer I got back from the ORAU side was,
5 "Yes, we use it for this, this, this and
6 this."

7 CHAIRMAN GRIFFON: That would be
8 good to hear and know exactly how they use it.

9 MR. HINNEFELD: I'll reconstruct
10 that.

11 CHAIRMAN GRIFFON: Yes, that would
12 be good. I think that would be good.

13 MR. KATZ: I think just as an
14 example though of what I think Stu is talking
15 about, which I think I used to hear about a
16 lot, was I mean whether they -- whether an
17 incident is followed up is one thing, but
18 there's a lot of stuff on the CATI other than
19 that.

20 CHAIRMAN GRIFFON: Work history,

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1 and --

2 MR. KATZ: Yes, work history and
3 so on. And I think a lot of times, they find
4 the work history they got from DOE may not
5 match up with -- from the person they
6 interview in the CATI and they follow up on
7 that, and they end up finding other
8 information related to work history.

9 MR. STIVER: I am also going to
10 add that sometimes these incidents are not
11 followed up because NIOSH will reinsert
12 accounted for an overestimating process in
13 dose reconstruction.

14 CHAIRMAN GRIFFON: Sometimes
15 that's the case, especially the incidents,
16 yes.

17 MR. FARVER: It depends on the
18 dose reconstructor and if they used the CATI
19 information. Some are better than others.
20 Some of the reports we look at are very good

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1 about including incident information, and some
2 aren't. And I think it comes down to the
3 person actually writing the report.

4 MR. KATZ: My only point was that
5 it's not just incident information in the
6 CATI.

7 CHAIRMAN GRIFFON: Well, I mean
8 the example that we've run across many times
9 is the neutron exposures, where we have to
10 say, you know, "Were they ever in building
11 whatever?" And we've -- I think we've had
12 that finding a few times, where -- and then we
13 might've had a disagreement with our
14 resolution, but at least we -- you know you
15 did consider that work history part to
16 determine if they were ever in an area where
17 there were neutrons.

18 So, yes, there's other value, but
19 I just raise it because it's come up.

20 MEMBER MUNN: Well, and it is one

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1 of the points that Lew makes under the
2 communication category as well is that DCAS
3 will consider it's current communication
4 strategies as they might present perceived
5 burdens to claimants and petitioners,
6 particularly in light of the real burden felt
7 by those individuals through their
8 interactions with the DOL.

9 We've certainly heard a lot about
10 that.

11 CHAIRMAN GRIFFON: Yes, that's
12 sort of the flipside is that people get
13 nervous that if they can't complete this --
14 they don't have all this information; they
15 feel like they're going to get shortchanged.

16 MEMBER MUNN: They hear the term
17 burden of proof a lot.

18 CHAIRMAN GRIFFON: Right, right.

19 MEMBER MUNN: They feel badly.

20 CHAIRMAN GRIFFON: Yes. Okay, are

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1 there other issues on the -- you know,
2 priority issues that people want to discuss?
3 I mean we have these two documents. I'm going
4 to try to, like I said, put a summary memo
5 together in the next couple weeks, and
6 circulate it so we have time to get something
7 to the Board by the end of August.

8 And if you think of something once
9 you see a first draft, it might prime people
10 to think of other things so we can always
11 modify this as we go.

12 Okay, anybody on the phone have
13 other thoughts before we -- I'm thinking of
14 taking a quick break, but any other thoughts
15 on this topic before? After the break, we'll
16 come back and start our blind review
17 discussion. David, any other words of wisdom?

18 DR. MAURO: Yes, Mark, I've got a
19 couple words of wisdom. This is John. Real
20 quick. Has the -- has the Subcommittee

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1 thought --

2 CHAIRMAN GRIFFON: David, is that
3 you?

4 DR. MAURO: This is John Mauro.

5 CHAIRMAN GRIFFON: I know. I
6 know.

7 DR. MAURO: Okay. I would be very
8 surprised. There might be some things that
9 the Subcommittee may want to do. I know the
10 conversation has been oriented towards
11 recommendations that the Subcommittee would
12 have NIOSH do with regard to quality.

13 But a subject that is not on the
14 agenda, but just to leave you with this
15 thought is what are some of the things that
16 the Subcommittee might want to do in light of
17 the recommendations in the ten-year report?

18 CHAIRMAN GRIFFON: Like catch up
19 on our backlog.

20 DR. MAURO: Yes. In any event, I

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1 just wanted you thinking in those terms also.

2 CHAIRMAN GRIFFON: Okay. That's a
3 good thought. All right, why don't we take --

4 MR. SIEBERT: Mark, I'm sorry.
5 This is Scott Siebert. Since we're taking a
6 break, maybe you guys could help me out. I do
7 not seem to have copies of the blind audit
8 report. So, if somebody could send those to
9 me, that would be very helpful to me.

10 MR. HINNEFELD: Yes, Scott, I'll
11 send them. I'm pretty sure I can find them.

12 MR. SIEBERT: Thanks, Stu.

13 MEMBER RICHARDSON: Could you send
14 them to me as well?

15 MR. HINNEFELD: Who's that?

16 MEMBER RICHARDSON: David
17 Richardson.

18 MR. HINNEFELD: David, okay.

19 CHAIRMAN GRIFFON: Okay, we'll
20 take a 15-minute break because by the time you

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1 get them sent and they look at them a little
2 bit. So, let's take 15 and come back in 15
3 minutes.

4 (Whereupon, the above-entitled
5 matter went off the record at 10:23 a.m., and
6 resumed at 10:42 a.m.)

7 MR. KATZ: Okay, we're back.

8 CHAIRMAN GRIFFON: All right, yes.

9 We're back. We're going to start with the
10 next agenda item, blind reviews. And does
11 everyone have those two reviews, first of all?

12 MR. KATZ: I sent them on to --
13 David, I sent them to your CDC address, and I
14 sent them to Wanda's CDC address, and I sent
15 them to Stu to distribute to ORAU.

16 CHAIRMAN GRIFFON: Okay. Scott
17 and David, you have -- you received them?

18 MR. SIEBERT: Yes.

19 CHAIRMAN GRIFFON: Okay, I'll turn
20 it over to SC&A to introduce these, and then

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1 we can go from there.

2 MR. FARVER: John, do you want to
3 do this, or do you want me to do it?

4 DR. MAURO: I'll start it off.
5 I'll sort of kick it off. I'm opening them up
6 right now. Let's do the first one. The first
7 one is the Portsmouth case.

8 If you guys are open to it, I'm
9 actually opening it right now as we speak.
10 Give me one second. And we can just work off
11 the executive summary. As preferences to sort
12 of set the table for this discussion, the
13 blind dose reconstructions were a concept
14 originally conceived in the request for
15 proposal goes back nine years now, as being
16 one of the types of activities the Board's
17 contractor would do by way of evaluating and
18 independently reviewing the DR process.

19 The idea being that if you take a
20 case and have SC&A review a case without

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1 seeing the results of NIOSH's work, so in
2 other words as if we were doing it from first
3 principals. We were given basically the idea
4 SC&A's given all of the Department of Labor
5 and Department of Energy records, dosimetry
6 records, internal and external, etcetera.

7 So, we have all that information,
8 and we do the dose reconstruction to see what
9 we get. And we do not see, and we have not
10 seen, NIOSH's dose reconstructions. So, right
11 now what you have in front of you in this
12 first one is SC&A's independent dose
13 reconstruction for a worker at Portsmouth, a
14 worker that I believe had bone cancer.

15 Let me go into the numbers here.
16 Had a couple of cancers, and multiple skin
17 cancers I believe. Yes, multiple skin
18 cancers, and a type of bone marrow, a type of
19 leukemia, I believe.

20 And so, the idea being for SC&A to

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1 do the blind dose reconstruction on their own,
2 and then eventually working with you folks, we
3 would compare our results to NIOSH's results,
4 which we have not yet seen.

5 But it turned out the way SC&A
6 ended up doing this was sort of interesting.
7 What we said we would do -- there was a bit of
8 a debate within SC&A regarding, "Okay, but
9 when we do the blind dose reconstruction,"
10 this is actually a debate that Hans and I had,
11 "is it our intention to take the procedures,
12 all of the procedures, the kind of thing we
13 were talking about before, and say, 'Okay,
14 SC&A will now do the dose reconstruction as if
15 we were NIOSH, and use all of their procedures
16 in as explicit accord as best we could
17 following their procedures, and to see what we
18 get?'"

19 And then later on, we would see if
20 we get the same number as NIOSH got. That was

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1 Hans' perspective. I said, "You know, Hans, I
2 think no. That's not what we're trying to do
3 here." I think we're doing something that is
4 -- if a health physicist were to do it as best
5 he could, given the data that is available,
6 what dose would he get, not necessarily
7 following the procedures, but using all the
8 information available to him and using his
9 judgment on how best to do it?

10 So, we had these two different
11 concepts of what a blind dose reconstruction
12 was. This matter was discussed and it was
13 agreed with the Subcommittee, or the Work
14 Group I guess it might've been at the time,
15 that we would do both.

16 So, what you're looking at right
17 now is the results of SC&A's blind dose
18 reconstruction for this worker, where two
19 different independent methods were used, one
20 based as best we could explicitly, using the

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1 spreadsheets, workbooks and procedures as
2 specified by NIOSH, and the other done by the
3 -- someone that is familiar with doing dose
4 reconstructions and used his own knowledge and
5 all the information available, including the
6 Site Profile and all the other materials
7 available, but not necessarily using NIOSH's
8 workbooks and spreadsheets.

9 Okay, I'll move to the -- we'll
10 start from the big picture and get down as
11 much detail as needed. But the bottom line is
12 that if you go to Table ES2, it's in the
13 executive summary. The bottom line is that
14 the doses differ by a factor of 2, whether
15 we're talking about -- whether we're -- and
16 the doses really consist of two doses: one,
17 the dose to the skin to reconstruct it because
18 of the skin cancer that the person
19 experienced, and the dose to the bone.

20 And if you look at the rollup

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1 numbers in ES2, you can see more or less that
2 there -- we're talking about method B, which
3 is what we call the hand calculations, came in
4 at about a factor of two higher.

5 And there's -- and the paragraph
6 above that table summarizes the reason for
7 that difference. But when all is said and
8 done, the root cause difference for the reason
9 the two-fold difference is the hand
10 calculation. When it took -- it took the --
11 think about this worker. He's got external
12 exposure records for both beta and penetrating
13 radiation, or -- or not penetrating,
14 penetrating radiation, and there are actual
15 data, which we used.

16 But he also has missing data.
17 There were time periods when he was not
18 monitored, and there were time periods when
19 the results came back below the limits of
20 detection for his film badge. The main reason

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1 for the difference between the two doses is
2 when I looked at the -- the -- to try to come
3 up with a coworker dose for this worker --
4 think of it like this. We have all this data,
5 this data representing the worker population
6 at Portsmouth, the external data, beta and
7 gamma, and given that, you say, "Well, here's
8 the distribution. What would you assign to
9 this worker within that distribution for the
10 time periods when he wasn't monitored but
11 perhaps he should've been monitored?"

12 That was how the thinking was at
13 the time. I picked the upper 95th percentile
14 of the distribution, while the procedures that
15 were used in method A by I believe Hans and
16 Kathy, or Doug - I'm not sure who actually did
17 that - picked the 50 percentile as being the
18 most appropriate value to use.

19 And the outcome was a factor of 2
20 difference. Now, there are other reasons for

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1 the differences, but if you're going to say,
2 "What's the root cause here?" This one turned
3 out to be relatively simple. That's the main
4 difference, and it has to do with the external
5 exposure.

6 We did it differently internally,
7 but the outcome didn't differ that much. This
8 would be for the long dose. The -- the
9 external dose to both the skin and the bone
10 that is the reason for the two-fold
11 differences for those two organs.

12 Now, we're at a point now where
13 we're anxious, quite frankly, to find out what
14 the doses are that NIOSH came up with, and
15 whether or not they're close to the values we
16 came up with. The value of this exercise,
17 one, was to -- I think it communicates a sense
18 of how different the doses could be when two
19 different people do it.

20 Now, keep in mind though in method

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1 B, we did not try to follow the procedures
2 explicitly in the workbooks. In Method B, it
3 was more of like how would a knowledgeable
4 health physicist do the calculation not
5 necessarily using the workbooks?

6 So, it really tests it in a
7 broader sense, as Hans pointed out earlier.
8 So, we're at a point now where we'd like to
9 see NIOSH's results, and work out if there are
10 differences, what those differences are, and
11 why. I think this goes toward the first
12 conversation.

13 MR. HINNEFELD: Well, we've not
14 really prepared a lot to discuss here, and
15 there's more analysis to be done, but I've
16 found the dose reconstructions. I can tell
17 you that the skin doses, there were apparently
18 four skin cancers. The skin doses in our dose
19 reconstructions, range from 2.92 rem to 3.8
20 rem.

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1 DR. MAURO: That's very close to
2 our values for method A.

3 MR. HINNEFELD: And dose to the
4 red bone marrow, which is the other one that
5 was calculated, was about 12.3 rem.

6 DR. MAURO: Oh, yours came in a
7 little higher than ours. Okay, well, I mean
8 we're all within that factor of 2 thing that I
9 mentioned.

10 MR. HINNEFELD: So, we -- we can
11 look at differences. I mean I haven't done
12 that. I just found the summary of the dose
13 reconstruction. That's not too bad in terms
14 of the skin doses, the bone --

15 DR. MAURO: I think that's great.

16 MR. HINNEFELD: Now, one thing
17 puzzles me, though. John, your reported dose
18 on the one cancer is the bone dose.

19 DR. MAURO: Bone marrow.

20 MR. HINNEFELD: Oh, marrow?

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1 DR. MAURO: Oh, I should've said
2 that. Yes, bone marrow.

3 MR. HINNEFELD: All right, so,
4 bone marrow. All right, so, I don't know what
5 that difference is about, but -- because we
6 haven't really looked at exactly what was
7 done. I think it could be done.

8 DR. MAURO: Yes, but the numbers -
9 - I got to tell you I was concerned that we
10 might come into a factor of ten apart. You
11 know, completely blind here. But we're close,
12 especially the external -- I'm sorry, the
13 skin. You're coming in higher on bone it
14 sounds like, somewhat. I'm sorry, did you say
15 your skin was 2.3 rems? Is that right?

16 MR. HINNEFELD: It ranged from 2.9
17 to -- what did I say, 3.8?

18 DR. MAURO: Yes. So, you're
19 coming in very close to method A. You
20 probably used the 50 percentile. You probably

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1 did exactly the way that Doug I believe did.

2 Doug, did you do this?

3 MR. FARVER: Yes.

4 DR. MAURO: Yes. You probably did
5 -- the fact that you're coming so close to
6 Doug's numbers means that in this case, these
7 two independent calculations of the skin dose
8 are coming in very, very close because you
9 probably both used the same workbook.

10 MR. SIEBERT: John?

11 DR. MAURO: Yes

12 MR. SIEBERT: I'm sorry, this is
13 Scott Siebert. Can I ask for a clarification?
14 When you're saying 50th percentile, are you
15 talking about coworker dose?

16 DR. MAURO: Yes.

17 MR. SIEBERT: Or missed dose?

18 DR. MAURO: Coworker.

19 MR. SIEBERT: Okay.

20 DR. MAURO: Absolutely. Yes, the

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1 missed dose difference is not the driver.
2 It's the coworker dose, where I used the 95th
3 percentile. I believe you folks used the --
4 well, when I say you folks, Doug used the 50th
5 percentile.

6 MR. SIEBERT: Just clarifying.
7 Thank you.

8 DR. MAURO: Yes.

9 MEMBER RICHARDSON: John, can I
10 ask for a clarification of one other thing?

11 DR. MAURO: Sure.

12 MEMBER RICHARDSON: This is David
13 Richardson. So, Table ES2, where there's skin
14 doses under method A, and the -- the value of
15 2.9 or 3 that you're talking about is summing
16 up what -- what values in a column? Because
17 the total is 5.7.

18 CHAIRMAN GRIFFON: Right.

19 MEMBER RICHARDSON: And if Stu is
20 talking about the total, or he was talking

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1 about the comparability of the summation of a
2 subset of values that you were referring to as
3 summing up to about 3 rem.

4 DR. MAURO: Oh, I'm sorry. I was
5 looking at the -- yes, we're -- yes, one of
6 the skin doses. There were multiple skin
7 cancers, and yes, you're correct. One of the
8 skin doses, the one to the back and shoulder,
9 came in at 5.7, which yes, it's -- I'm sorry.

10 My mistake. I was looking at the right hand
11 side. It's somewhat higher than -- I take it
12 back.

13 CHAIRMAN GRIFFON: I guess that's
14 what we're asking is did -- Stu, when you said
15 your numbers, are you including the
16 occupational, medical and the internal? Okay.
17 We're comparing apples and apples then.

18 MR. HINNEFELD: The numbers I gave
19 are described in the dose reconstruction
20 report as the totals. There are like four

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1 different skin cancers.

2 CHAIRMAN GRIFFON: Okay.

3 MR. HINNEFELD: Each one has it's
4 own dose --

5 CHAIRMAN GRIFFON: So, we're
6 looking at the total on this table. Yes.

7 MR. HINNEFELD: So, the one is
8 certainly lower, our 3.9 to their 5.7.

9 CHAIRMAN GRIFFON: Right.

10 MR. HINNEFELD: But we're about
11 two-thirds of theirs or something.

12 DR. MAURO: It looks like the
13 occupational medical dose, as would be
14 expected, is the driver for the skin doses,
15 and at least for two of those skin cancers.

16 MR. HINNEFELD: Yes, I mean more
17 complicated analysis is going to be a little
18 difficult for me on the fly here. Let me see
19 what I got here.

20 MR. FARVER: You're almost going

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1 to have to go back into the details of the
2 report for each of the two methods and start
3 comparing.

4 CHAIRMAN GRIFFON: Yes. What's
5 our path forward here? Do we -

6 MR. HINNEFELD: What do you guys
7 want to do?

8 CHAIRMAN GRIFFON: Do we now
9 reveal the case number, and then let SC&A --

10 MR. FARVER: We know the case
11 number.

12 MR. HINNEFELD: Is this still
13 blocked to you guys?

14 DR. MAURO: We just didn't look at
15 it.

16 MR. FARVER: I don't know. I
17 never tried to look at it.

18 MR. HINNEFELD: I mean we blocked
19 access to -- so they were really blind. We
20 gave them certain key information, but we

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1 didn't give them access to -- now, you guys
2 have the case number and if you're not blocked
3 from that folder, you can pull up our dose
4 reconstruction.

5 DR. MAURO: I know I didn't do
6 that. Doug, did you --

7 MR. FARVER: I didn't look at it.

8 MR. HINNEFELD: It can go either
9 way. If you want us to do it, we can do it.
10 It doesn't matter to me.

11 CHAIRMAN GRIFFON: I think both
12 groups can probably look at it and be ready to
13 discuss any differences. For method A, maybe
14 that bone marrow, you question what -- it
15 seems like a little bit of a spread. Maybe
16 there's different assumptions that -- that
17 SC&A made.

18 MR. FARVER: You got to look at
19 the details.

20 CHAIRMAN GRIFFON: Right. I think

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1 you got to dig into the details a little, yes.

2 MR. HINNEFELD: There are -- I
3 mean there was -- there was IMBA fitting and
4 bioassay data on those. It wasn't like a
5 missed dose. It was a --

6 MR. STIVER: Well, once again,
7 you're looking at the unmonitored photon, two
8 different keV and the driver for the bone --

9 MR. FARVER: And it depends what
10 uranium you used, recycled uranium,
11 enrichment. There's just a whole lot. I
12 couldn't really summarize in two sentences.

13 CHAIRMAN GRIFFON: Right, right.
14 Sure, sure.

15 MR. KATZ: So, should we have this
16 as an action item?

17 CHAIRMAN GRIFFON: A task for both
18 groups, I think, to look at the -- you can go
19 over the Oak Ridge example too, if you want.
20 But I think --

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1 DR. MAURO: It's sort of the same
2 story that comes out of Oak Ridge, the Y12
3 case.

4 CHAIRMAN GRIFFON: Yes.

5 DR. MAURO: And what we have here
6 is the fellow that had the gall bladder, the
7 bile duct cancer. And again, the difference,
8 if you want to open to it, the executive
9 summary of that document, you go to table ES1
10 on -- let's see. What page is that? Up in
11 the front there, page 10.

12 It summarizes again method A,
13 method B, and again method B comes in two
14 times higher. You know, I'd have to go back
15 and look at the summary text above it. The
16 reason for the difference --

17 CHAIRMAN GRIFFON: Data dose.

18 DR. MAURO: Oh, it's the internal
19 dose in this case. How the plutonium and beta
20 dose. Plutonium and the -- plutonium and the

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1 beta radionuclide doses were calculated.
2 That's what the driver is. This was a Super S
3 issue. There were -- I guess the way in which
4 you modeled the intake and the bioassay data,
5 and so this probably is pretty complicated.

6 I see that there is a mix of
7 radionuclides; strontium is the driver, and
8 then -- but they have some other radionuclides
9 mixed in there also. That would be the beta
10 contribution. And there's assumptions
11 regarding whether it was like a chronic
12 exposure versus a series of acute exposures.

13 So, again, the driver in this
14 case, opposite from the -- even though we're
15 still a factor of 2 difference, but in this
16 case interestingly enough, it's not the
17 external but it's the internal that drives the
18 difference, not surprisingly since it is the
19 bile duct and you would expect the internal
20 emitters to be more important than -- I guess

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1 you would external.

2 But in any event, same story, and
3 where it would be worth probing. Where did
4 you folks come in, by the way, on this one?

5 MR. HINNEFELD: I'm getting there.

6 CHAIRMAN GRIFFON: Either way,
7 while Stu is looking at that, I think the
8 tasking is going to be that both groups look
9 at the SC&A DR's and the NIOSH DR's, and we'll
10 come back and see if there's any areas of
11 learning out of this.

12 MEMBER RICHARDSON: John?

13 DR. MAURO: Yes?

14 MEMBER RICHARDSON: This is David
15 Richardson. One thing that was interesting to
16 me is the two methods in terms of the external
17 dose, you notice the tables are flipped in
18 terms of method A is giving you a total
19 external dose of 24, and method B is like a 12
20 to 14.

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1 So, differences would be even more
2 pronounced, for example, if the two methods
3 had given you similar external doses but
4 different internal doses because they're --
5 there's like 10 or 12 rem of external dose
6 that wasn't added in through method B.

7 DR. MAURO: Yes, yes.

8 MEMBER RICHARDSON: And that
9 would be interesting.

10 DR. MAURO: Yes, we've got to poke
11 around. There's a lot of probing to do. I
12 just tried to give you the 30-second sound
13 bite, but there's a lot to this.

14 MR. HINNEFELD: Well, our value
15 was about 15.3 rem. So, it's considerably
16 less.

17 DR. MAURO: You guys came in at
18 15.3?

19 MR. HINNEFELD: Yes.

20 DR. MAURO: Okay. So, that's

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1 about half the value for method A, okay. You
2 know, that's interesting. Your approach also
3 was about one-half the value we came at method
4 A for the Portsmouth case also. So, this
5 should be -- this factor of 2 is hanging in
6 there.

7 MR. HINNEFELD: Yes, with skin and
8 gall bladder I wouldn't draw a lot of
9 conclusions.

10 CHAIRMAN GRIFFON: Right.

11 DR. MAURO: No, no. I know.

12 MR. HINNEFELD: And we'll just
13 have to do the analysis because it's
14 impossible to tell. This again was a fairly
15 complicated -- there are a number of IMBA runs
16 in there. So, it looks like there will be --

17 CHAIRMAN GRIFFON: That's why we
18 picked them.

19 MR. HINNEFELD: Yes. Oh, gee,
20 good.

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1 DR. MAURO: You know what's
2 interesting? This little discussion we're
3 having is sort of like a mini-version of what
4 would happen if NIOSH had an internal program
5 of their own that did this sort of thing.
6 Maybe having four or five people doing the
7 same case.

8 CHAIRMAN GRIFFON: Are you trying
9 to talk me out of --

10 DR. MAURO: And then probe it.

11 CHAIRMAN GRIFFON: Right.

12 MR. SIEBERT: Hey, Mark, this is
13 Scott. Just one thing to keep in mind for
14 this kind of a comparison, it would really
15 help us or whoever is doing the review on our
16 side, to have the supporting files, the IMBA
17 files.

18 CHAIRMAN GRIFFON: Yes.

19 MR. SIEBERT: All the other
20 supporting files. Not just the report.

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1 CHAIRMAN GRIFFON: Yes. I knew
2 what you were going to say as you were
3 speaking. Yes, that's a good idea.

4 MR. SIEBERT: Thank you.

5 CHAIRMAN GRIFFON: We can make
6 that happen, right, SC&A?

7 MR. FARVER: Yes.

8 CHAIRMAN GRIFFON: Doug is saying,
9 "Yes, definitely. No problem." I got him
10 with me right here. I was going to dig
11 through his old computer that he did it on
12 four years ago.

13 MR. KATZ: And what about you,
14 John? Your envelopes, did you save them?

15 DR. MAURO: We're all fine. Yes.

16 MR. HINNEFELD: And if you guys
17 cannot get access to these folders on NOCTS if
18 you're blocked, because we did block you at
19 one time I think. Just let us know and we'll
20 take that off. Because all of our stuff will

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1 be on there. Our reports are on there.

2 If you want a guide, give us a
3 call. Give Brant or me a call. We'll guide
4 you through what's there and what you can see.

5 But it's not just plain docs. There's a
6 whole lot of documents there, including the
7 dose reconstructions, the IMBA files, the IREP
8 files and so on. They're all there.

9 MR. FARVER: I really think it's
10 going to come down to where it's going to go
11 back to a basic assumption that we made, and
12 that's where the difference will --

13 MR. HINNEFELD: It may come down
14 to how we fit the bioassay.

15 MR. FARVER: For the internal,
16 yes.

17 MR. HINNEFELD: And this is
18 probably -- this is gall bladder. This has
19 almost got to be an internal one.

20 MR. FARVER: Because if you read

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1 through just our two reports on internal,
2 they're actually different.

3 CHAIRMAN GRIFFON: Yes.

4 MR. FARVER: Just the number of
5 intakes, the type of intakes. I think it's
6 going to come down to --

7 CHAIRMAN GRIFFON: But that's
8 good. That's good discussion that we can
9 have.

10 MEMBER MUNN: Yes.

11 CHAIRMAN GRIFFON: And John, we're
12 just wondering around the table; did you use a
13 slide rule for all these, or did --

14 DR. MAURO: Of course.

15 CHAIRMAN GRIFFON: -- you cheat?
16 Okay.

17 DR. MAURO: I got help from my
18 IMBA people. Don't worry. I wish I was that
19 skilled.

20 MEMBER MUNN: The abacus is so

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1 much faster.

2 CHAIRMAN GRIFFON: The abacus,
3 yes. All right, I think we'll move on from
4 blind reviews to -- I don't know what it says
5 on the agenda, but I'd like to do the case
6 selection. Well, we can take on the DR 12
7 case selection first, if people have looked at
8 that.

9 MEMBER RICHARDSON: Mark, could I
10 ask for one piece of clarification as I'm
11 thinking about how to -- how to make sense of
12 what's going to happen from the comparison
13 between, say, three different approaches to
14 reconstructing the dose?

15 I'm wondering -- I'm -- we might
16 be leaving with different ideas about what
17 that kind of summary evaluation is going to
18 look like. I'd be interested to see, for
19 example, what John and Stu think the next
20 steps are going to be.

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1 MR. FARVER: Well, I can tell you
2 what my plan was when looking at this. If you
3 look at Table ES1, I plan on putting in
4 another column that lists the same type values
5 for the NIOSH dose reconstruction, like we
6 normally do when we review a case.

7 And then when there's major
8 differences, we'll try to explain what -- why
9 the differences occur, and what the basic
10 assumptions are. So, that's kind of what I
11 was looking at.

12 MR. HINNEFELD: Well, that's the
13 accepted analysis. If you're talking about
14 what happens after that, I would say that we
15 in this Subcommittee would discuss the
16 relative merits of the three approaches or
17 whichever one is discussed and the
18 Subcommittee could recommend to -- or the
19 Board could recommend that these be changed.

20 Or, we may -- I mean we may

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1 conclude that based on merits that needs to be
2 changed, or the Subcommittee or the Board
3 could make such a recommendation to -- you
4 know, to me, the function of the Board is to
5 recommend it to the Secretary. And if the
6 Board in its deliberations finds -- points out
7 things that we say, "Oh, gee, that should be
8 changed," we change them. And so, that's what
9 will happen.

10 If there's some disagreement about
11 whether something should be changed or not,
12 then it might be above my pay grade.

13 MEMBER RICHARDSON: So, am I right
14 in understanding that DR method A should --
15 the intention was that it was a blind
16 replication, using the methodology that
17 should've been used also by NIOSH?

18 DR. MAURO: Yes.

19 MEMBER RICHARDSON: So, there --
20 the hope would be that there's kind of

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1 consistency and reproducibility there between
2 column A and what will be column C? And if
3 there's not, we've got categories of
4 explanation, which are human error or
5 ambiguity in protocols or perhaps as you're
6 saying with -- I mean maybe those would be the
7 two categories.

8 If there's different judgments on
9 the internal dosimetry, it's because the
10 protocols that have been written leave some
11 things open to subjectivity of the dose
12 reconstructor?

13 MR. HINNEFELD: I think that might
14 be the case. I think it's a little hard to
15 judge what we're going to find when we look at
16 these, but it might be. And one of the
17 questions that we could very well run into
18 since IMBA fits on both these is which fit is
19 better? You know, is this fit good enough?
20 Or, is - do I need to do this additional work

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1 and do this fit? So, that may be one of the
2 questions we run into on this.

3 MEMBER RICHARDSON: Okay, and then
4 comparing column B to column C is where I was
5 thinking of questions of scientific validity
6 of the procedures as opposed to
7 reproducibility -

8 CHAIRMAN GRIFFON: Right, yes.

9 MEMBER RICHARDSON: -- aligned to
10 the methodology.

11 CHAIRMAN GRIFFON: Yes. I think
12 that's sort of why we ask SC&A to do that.
13 John described that correctly. They kind of
14 came back and said, "We'd like to do it this
15 way," and we as a Subcommittee agreed. It
16 might've even been a full Board discussion. I
17 can't remember, but that was part of the
18 reason we asked for two methods by SC&A.

19 MEMBER RICHARDSON: Right. I
20 remember that. Sort of kind of face validity.

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1 CHAIRMAN GRIFFON: Yes.

2 MEMBER RICHARDSON: John was
3 going to look at these records. This would be
4 kind of a -- I don't know if it's a ballpark,
5 or if it's -- if it's kind of a different
6 approach to deriving an estimate.

7 DR. MAURO: You know, it's really
8 a -- there's no doubt that I was part of it,
9 but I certainly had help, was not -- not
10 trying to religiously follow workbooks, your
11 procedures, although we certainly took the
12 procedures, the Site Profile, and all of the
13 vast amount of knowledge that was accumulated
14 by NIOSH and took advantage of that.

15 So, it's not that it's our own
16 invention by any means. We're using the --
17 we're standing on your shoulders, so to speak,
18 saying, "Okay, given all this information,
19 we're not going to use your workbook, but
20 given all this information and data that we've

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1 learned over the years, how would you do it?"

2 We try to document that, and
3 you'll see -- and you'll notice that there is
4 a difference, this factor of 2, between the
5 two methods. Now, the degree to which that is
6 insightful or helpful I'm not sure.

7 Once we get into it and we start
8 to see what the differences are, I think it
9 might lend itself toward an evaluation of the
10 precision that is achieved or accuracy that's
11 achieved by the sophistication that you folks
12 have brought in.

13 And Ted, as you recall, we had a
14 bit of a discussion on the sophistication of
15 the workbooks, the complexity, and what this
16 should reveal is that there's no doubt that
17 NIOSH and the contractor have gotten to a
18 level of sophistication that is admirable.

19 This kind of comparison will start
20 to reveal what -- what -- you know, by going

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1 to the workbooks where things get very
2 complex, there's added value, and we may very
3 well find that when you do that, your doses
4 come down a little lower by sharpening the
5 pencil, so to speak. And this comparison
6 might help reveal what it is that you achieve
7 by bringing in that level of sophistication.

8 MEMBER RICHARDSON: So, that is
9 where I guess I would be interested in framing
10 the comparisons between column A and what will
11 be column C in terms of an explanation of
12 certain categories of ambiguity or error that
13 lead to differences in two people
14 reconstructing the dose, whereas with column
15 B, it'd be interesting for you to have a
16 judgment about whether the assumptions that
17 you employ to kind of end up with a higher
18 dose you feel are better assumptions or are --
19 were weaker assumptions of convenience which
20 led to an overestimation, where if you had

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1 "sharpened the pencil," it would've gone down
2 the other direction.

3 DR. MAURO: Yes. I think that's
4 where the value lies, yes.

5 MEMBER RICHARDSON: Okay, thank
6 you. That was useful for me to think about
7 where we'll be going with this next.

8 CHAIRMAN GRIFFON: I think we can
9 move onto the next topic, the case selection
10 on the PER 12, and there was an Excel
11 spreadsheet sent around by Brant or by -- yes.

12 I'm going to ask that someone refresh my
13 memory. How many cases did we agree that we
14 wanted to pick for this review? Did we put a
15 number on it? I forget.

16 DR. ULSH: Maybe I'll give a
17 little bit of background.

18 CHAIRMAN GRIFFON: Yes, go ahead.
19 Go ahead.

20 DR. ULSH: For those on the phone

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1 who may not be aware of the history, just
2 briefly, PER 12 is a Super-S PER. And so,
3 number of cases came back to NIOSH, and under
4 the auspices of this committee, looking at
5 whether or not we appropriately executed our
6 PERs, some of those were picked, PER 12 in the
7 first one, and this committee committed to
8 looking at those of those cases to make sure
9 that we followed the PER and implemented it
10 appropriately.

11 So, PER 12 is the first one. SC&A
12 reviewed that, and proposed -- you see the
13 report where the proposed a number of criteria
14 for selecting cases, and I'll turn it over to
15 Scott in a little bit to let him walk you
16 through that. But there was a matrix of
17 different categories of cases that would be
18 selected from.

19 So, then it came to NIOSH -- it
20 became NIOSH's task to identify cases that fit

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1 each of those criteria, and that's what you
2 see here in this spreadsheet that Scott
3 actually prepared and I distributed.

4 I don't know; did we decide on a
5 specific number of cases or were we just going
6 to try to pick some on each matrix box?

7 MR. KATZ: Well, Hans had -- this
8 is based on Hans laying out characteristics of
9 cases that would need to be looked at to
10 examine implementation. So, I believe Hans is
11 on the line, isn't he?

12 DR. H. BEHLING: Yes, I am.

13 MR. KATZ: Do you want to just
14 speak to the number that you were looking for
15 in total?

16 DR. H. BEHLING: Yes. Basically,
17 I did not identify a select number, but I said
18 based on the fact that the issue of Super S
19 plutonium, the reconstruction of doses has
20 multiple different methods by which dose

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1 reconstruction or revised dose reconstruction
2 would have to take place, and it's a matrix
3 that's defined by the type of target organ in
4 question, and there were four.

5 There was the lung and the lymph
6 nodes, the thoracic lymph nodes, extra
7 thoracic lymph nodes, GI tract and systemic
8 organs. So, there were four different target
9 organs that would be affected by Super S
10 plutonium.

11 In addition, the potential
12 reconstruction of doses would also be affected
13 by the method by which the original dose
14 reconstruction was done; namely was it done by
15 urine analysis, by lung counts, by fecal
16 sample, or air sampling?

17 So, in effect, you had a matrix
18 that allowed up to 12, except that we said
19 that air sampling would not apply to extra
20 thoracic or GI tract, so that in essence there

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1 were -- I identified 10 different methods by
2 which a revised dose reconstruction would take
3 place, and I also threw out the caution that
4 perhaps not all of those particular pigeon
5 hole sampling dose reconstructors would
6 necessarily be represented among the 1,577
7 claims that were affected by the Super S PER.

8 So, I left it as a minimum. If
9 you were able to find a case for each of those
10 particular cases involving the four target
11 organs and the four different methods by which
12 original dose reconstruction was done, you
13 would end up having to sample at least 10
14 cases in order to take one case for each of
15 those different procedures that were done to
16 reconstruct the original dose.

17 Now, I haven't really looked at
18 what was forwarded to us, but I suspect that
19 perhaps NIOSH was able to find at least some
20 cases for each of those individual cases that

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1 I identified as a potential case for review.

2 So, if the Board were to say, "We
3 will take one of each of the ten cases," then
4 the number of cases that may have to be
5 reviewed would be 10. If there's more than
6 one case for each of the types, then obviously
7 it would be a multiple of 10. But that's a
8 decision that has not been made.

9 CHAIRMAN GRIFFON: Go ahead,
10 Brant.

11 DR. ULSH: Well, at some point,
12 I'd just like to have Scott walk you through
13 the email that was sent out, and the
14 spreadsheet. I don't know if you want to do
15 that now.

16 CHAIRMAN GRIFFON: Yes. I'm
17 trying to figure out the four -- I mean you're
18 saying four organs and four --

19 DR. H. BEHLING: Yes, yes, Mark.
20 Can I ask you if you have access to the report

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1 that I submitted March of 2010? It's really
2 on page 15, and it's Table 2 that provides the
3 matrix that identifies the target organs and
4 the method by which the original dose
5 reconstruction was done, which gives you the
6 ten choices that you may have to make in
7 selecting a case for each of those different
8 categories.

9 CHAIRMAN GRIFFON: All right. I
10 don't have that handy. Does anybody else have
11 that? I mean I'm just trying to understand
12 simple mathematics here, Hans. Four target
13 organs, four different methods. To me, that
14 comes out to 16 cases. Am I looking at that
15 wrong?

16 DR. H. BEHLING: Yes -- no, but in
17 fact, if you have Scott's write up, he also
18 has it on page 1, and it identifies the four
19 different organs, lung, ET GI tract systemic,
20 and then he has air monitoring, fecal, urine

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1 and in vivo.

2 So, that matrix is concluded in
3 Scott's handout.

4 MR. SIEBERT: Yes. Like I said,
5 this --

6 CHAIRMAN GRIFFON: All I have is
7 the spreadsheet unfortunately.

8 (Simultaneous speaking.)

9 MR. SIEBERT: For me to walk
10 through, I --

11 CHAIRMAN GRIFFON: Go ahead,
12 Scott.

13 MR. SIEBERT: I didn't have the
14 list of Hans' 10, so I started from the
15 beginning of a matrix of 4 by 4; the four
16 types of monitoring, air monitoring, fecal,
17 urine and in vivo, and the four types of
18 organs, where you make different adjustments
19 based on lung, ET GI tract.

20 And Mark, you're right; when you

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1 do that straight matrix, you're talking 16
2 different categories.

3 CHAIRMAN GRIFFON: All right.

4 MR. SIEBERT: I did not remove any
5 categories. When I went through the claims, I
6 tried to find something for every category
7 just to be on the safe side. Hans is right;
8 there are times where Super S adjustment is
9 not appropriate based on the type of
10 monitoring and the type of organ. However, I
11 tried to include at least one claim to
12 demonstrate the fact that we did that
13 appropriately, even though it doesn't need to
14 be applied.

15 DR. H. BEHLING: That's it, Scott.

16 In my matrix, I said no to -- to the 3 cases
17 involving lung counts, where we talked about
18 extra thoracic GI tract and systemic organs
19 because they're not part of a lung count.

20 CHAIRMAN GRIFFON: Okay.

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1 DR. H. BEHLING: And I also said
2 no to the air sampling involving extra
3 thoracic GI and systemic. So, I ended up with
4 ten different potential cases, versus your 16.

5 CHAIRMAN GRIFFON: Those six that
6 you excluded again, Hans? A little slower?

7 DR. H. BEHLING: On the lung
8 counts, I said no to extra thoracic GI tract
9 and systemic organs because a lung count
10 wouldn't reveal any information regarding
11 those.

12 CHAIRMAN GRIFFON: Okay, and the
13 other three?

14 DR. H. BEHLING: The air sampling
15 involving extra thoracic GI tract and systemic
16 --

17 CHAIRMAN GRIFFON: It's the same
18 thing.

19 DR. H. BEHLING: That goes back to
20 why I excluded dose 3 as well. It's been over

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1 a year since --

2 CHAIRMAN GRIFFON: Okay.

3 DR. H. BEHLING: But in essence --

4 CHAIRMAN GRIFFON: At least I
5 understand your 10 now. Thank you, yes.

6 MR. SIEBERT: Right, and I agree
7 that all six of those categories do not use
8 adjustments.

9 CHAIRMAN GRIFFON: Yes, okay.

10 MR. SIEBERT: So, we're on the
11 same sheet of music. How scary is that?

12 CHAIRMAN GRIFFON: That's pretty
13 good. That's pretty good. Maybe we should go
14 home.

15 MR. SIEBERT: Okay. Second? So,
16 once we had the matrix of 16, I talked to
17 Brant for a while, and some of these
18 categories were much easier to find than
19 others, just based on the types of claims, and
20 some were much more difficult.

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1 The more straightforward ones
2 would be fecal sampling because, as we all
3 know, fecal sampling is less prevalent across
4 the complex. So, we have many fewer claims
5 that actually used fecal sampling. So, those
6 were a little bit easier to find by tracking
7 the claims where that is stated in the dose
8 reconstruction report.

9 So, that was actually the first
10 category I went down, and went right through
11 the column that dealt with fecal sampling.
12 And unfortunately, I could not find one from
13 every category. I found one for fecal
14 sampling that was a lung claim, and four for
15 systemic, but I just could not find any for ET
16 or GI tract.

17 Once again, it's just because of
18 the limited number of claims there were. So,
19 those are the ones that we have on the list:
20 one for organs, being lung and fecal, and the

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1 organ being systemic and fecal, four of those.

2 So, that was the fecal sampling.

3 The next category that was relatively easy to
4 find was air monitoring, and the reason for
5 that is, number one, OTIB-18 is, although it's
6 an overestimate, it is based on air monitoring
7 results.

8 So, I could flip through all the
9 OTIB-18 claims, and ensure that any plutonium
10 that was done as part of OTIB-18 had Super S
11 applied appropriately. Also, there are some
12 sites that use air monitoring to assign
13 plutonium. Pantex is the main one.

14 So, it was relatively
15 straightforward for me to find air monitoring
16 claims and I have six for the -- where the
17 organ of interest is lungs. And then as Hans
18 said, you really don't have to review ET GI
19 tract and systemic because it doesn't apply.
20 However, I did put two claims from each of

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1 those classes just so if the Subcommittee
2 wanted to ensure that we considered it and
3 determined it was not appropriate, you could
4 always look at those.

5 So, that covers air monitoring and
6 fecal. Before I go on, are there any
7 questions? Okay.

8 CHAIRMAN GRIFFON: Guess we got
9 you so far.

10 MR. SIEBERT: Good. The next one
11 that was relatively straightforward was ET.
12 So, I switched from monitoring to organ type.

13 Once again, like fecal sampling,
14 this was straightforward just because there
15 are not many claims that use ET as the organ
16 of interest. If you go into OTIB-5 and look at
17 how many ICD-9 codes refer to the ET region,
18 it's just not that many.

19 So, I could track through all
20 those, and as I already said, I had air

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1 monitoring covered. I could not find one for
2 fecal, but I did find four claims for -- that
3 used your analysis, and two claims that use
4 chest counting in vivo.

5 So, those categories are covered
6 as well. So, I've gone down the matrix and
7 I've gone across the matrix, and if you
8 notice, that's left a few things open, which
9 is urine sampling and chest counting for lung,
10 GI tract and systemic.

11 And from that point on, it was
12 just brute force reviewing claims to find
13 claims that fell into those categories, and
14 the latest list that I believe Brant sent out
15 does have I believe eight claims for -- would
16 be four organs of interest is the lungs, both
17 for urine, and eight for chest counting.

18 Found five of them where we used
19 urine sampling. And for the GI tract there
20 was only one claim I could find where the GI

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1 tract used chest counting, which is not really
2 surprising because there wouldn't be very
3 many.

4 And also, as Hans said again, for
5 chest counting, your ET, your GI tract, is
6 systemic. There are no correction factors for
7 that. So, I felt that finding one from each
8 of the systemic and GI tract was enough to
9 demonstrate that we took it into account.

10 And I know I've kind of been
11 dancing around the categories a little bit.
12 The one that's left over is urine sampling and
13 systemic, and I found eight claims -- I'm
14 sorry, four claims -- that were representative
15 of that.

16 So, we've actually -- for the 10
17 that Hans was stating, we actually got a
18 pretty good chunk of claims in each of those
19 categories except for fecal sampling for ET
20 and GI tract just because of the small number

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1 of fecal sampling claims.

2 That's where we got the numbers
3 that are in the matrix, and the claims that
4 are pulled, and it totals up to 50 claims,
5 which is I believe what we were originally
6 focusing on putting together so that you guys
7 could pull from that list.

8 CHAIRMAN GRIFFON: Which if we
9 look at it from -- from SC&A's proposed
10 method, I think we -- this would bring us down
11 to maybe eight cases -- eight categories
12 anyway, yes.

13 MR. SIEBERT: Because there are no
14 claims in two of them.

15 CHAIRMAN GRIFFON: Right, yes.

16 DR. ULSH: Just to make sure
17 before we go on, I sent out the partial list
18 on Friday, but then I sent out the full list
19 on Wednesday. So, make sure you're looking at
20 the message I sent out on -- the spreadsheet

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1 that's got all the stuff that Scott was just
2 talking about.

3 DR. H. BEHLING: This is Hans.
4 Just a quick question for either Scott or
5 Brant. Among the cases he identified, how
6 many of them were compensated? How many were
7 not compensated? How many were not
8 compensated among the non-compensated? What's
9 the distribution with PoC, and if there's a
10 selection process, could we focus on the
11 highest that were below 50 percent, but he
12 highest among those groups?

13 CHAIRMAN GRIFFON: Yes, we have
14 the PoC numbers in here. So, we can consider
15 that, Hans, at each end of the table.

16 MR. KATZ: Keep in mind, I mean
17 the purpose of this is very different from the
18 DR review purpose. It's to see that PER was
19 implemented correctly.

20 CHAIRMAN GRIFFON: Okay, any -- I

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1 mean I am kind of looking over. Everybody has
2 the table open, I suppose, the spreadsheet.
3 And I assume I'm looking at the correct one.
4 I mean I have 50 cases listed.

5 MR. SIEBERT: That would be the
6 right one then.

7 CHAIRMAN GRIFFON: Yes. It's
8 highlighted very well. So, you can follow
9 along from different categories. And I mean
10 again I would say we're really looking at the
11 category matrix item. If you look at column
12 K, it has matrix category. Just to simplify
13 it, you want to target -- based on the
14 discussion by Hans and Scott -- target matrix
15 item 1, 5, 8, 9, 10, 11, 12 and 13.

16 MR. SIEBERT: Correct.

17 CHAIRMAN GRIFFON: And then
18 whether we want one from each category;
19 whether we want more than one, I guess we have
20 -- that's open to discussion. And we have the

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1 other factors in the matrix to help us make a
2 decision.

3 I might've lost a little bit of
4 your discussion, Scott. I think for some of
5 the air monitoring cases, you said that they
6 really were PROC 18; am I getting that
7 correct? You said they were --

8 MR. SIEBERT: Yes, that's fine.

9 CHAIRMAN GRIFFON: Can you explain
10 that again? I might've missed some of that.

11 MR. SIEBERT: That's fine. Since
12 -- it's actually OTIB-18. OTIB-18, the
13 overestimating approach for internal
14 dosimetry, based on air monitoring, or for a
15 program that had air monitoring, obviously
16 based on the title, that is based on air
17 monitoring. So, the correction factors for
18 OTIB-49 Super S plutonium would apply and need
19 to be determined. When we do OTIB-18,
20 whenever the plutonium is assigned, we need to

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1 also look at the fact of what the calculation
2 of Super S plutonium in that is, to determine
3 if it's more claimant favorable and gives a
4 larger dose than anything else that OTIB-18
5 kicks in.

6 So, it's another step in the
7 process, where we apply OTIB-49 Super-S
8 correction factors to the doses that come out
9 of OTIB-18.

10 CHAIRMAN GRIFFON: And you were
11 saying none of those cases are -- they're all
12 OTIB-18 is what you're saying, right?

13 MR. SIEBERT: No.

14 CHAIRMAN GRIFFON: No?

15 MR. SIEBERT: The ones that are
16 listed as Pantex --

17 CHAIRMAN GRIFFON: Oh, right.

18 MR. SIEBERT: Pantex is a site
19 that does use air monitoring results to assign
20 plutonium. So, Pantex claims will have direct

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1 values out of the TBD, where OTIB 49 is
2 applied to them.

3 The other sites other than Pantex
4 I believe are all OTIB-18s.

5 CHAIRMAN GRIFFON: Okay, thanks
6 for that clarification.

7 MR. SIEBERT: Sure.

8 CHAIRMAN GRIFFON: All right. Any
9 thoughts on how we should go forward selecting
10 the cases? How many? What kind of
11 stratification? I mean other than these
12 categories, I think we -- we did -- I don't
13 know if the Board approved SC&A's approach,
14 but I think we -- we -- yes, I think we
15 accepted it.

16 MR. KATZ: I mean I think you're
17 just trying to check here. I don't think you
18 need a statistical sample.

19 CHAIRMAN GRIFFON: No, no, no.
20 I'm just saying --

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1 MR. KATZ: But by that example
2 that you just talked about, if Pantex is
3 really dealt with differently, then you might
4 want one of each.

5 CHAIRMAN GRIFFON: Right. Two
6 from those guys, right. And I don't know if
7 there's any other distinctions here, but --
8 so, for item -- for category one, for
9 instance, we want Pantex 1, and line 6, the
10 fifth one down, Hanford. It's something --
11 you know --

12 DR. ULSH: Can I bring up an
13 issue? Just something everyone should know.
14 The spreadsheet contains Privacy Act
15 information.

16 CHAIRMAN GRIFFON: Right.

17 DR. ULSH: So, when we're talking
18 about particular claims, don't use the last
19 name or --

20 CHAIRMAN GRIFFON: Or the Social

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1 Security number.

2 MR. HINNEFELD: Yes. Use the line
3 number, like you did, Mark.

4 CHAIRMAN GRIFFON: Right.

5 MR. HINNEFELD: The line number;
6 that is the appropriate way to select these, I
7 think.

8 CHAIRMAN GRIFFON: But we can say
9 site I think.

10 MR. HINNEFELD: You can say site,
11 and the things that are on the normal
12 compensation selection list, which would
13 include site, IREP model and PoC, you can all
14 talk about. You cannot say -- but I couldn't
15 go much farther than that.

16 CHAIRMAN GRIFFON: That's good. I
17 thought Brant was going somewhere else,
18 actually. I thought you were bringing up that
19 question we talked about with regard to --
20 with conflicts. If people have conflicts, can

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1 we select cases on sites that we have
2 conflicts on? Is that an issue still?

3 MR. KATZ: That would be an issue.

4 CHAIRMAN GRIFFON: Yes.

5 MR. KATZ: You can't -- you can't
6 select cases where you have a conflict.

7 CHAIRMAN GRIFFON: Or you just
8 can't vote on certain ones, right?

9 MR. KATZ: Really should not be
10 involved on your own site on anything.

11 CHAIRMAN GRIFFON: Right.

12 MR. KATZ: So, just simply if it's
13 a case on your site, you should be silent
14 about it.

15 CHAIRMAN GRIFFON: Right, just be
16 silent about it. Right, yes. We can't just
17 constantly step away from the table.

18 MR. KATZ: No, no, no. Nobody has
19 to go anywhere.

20 CHAIRMAN GRIFFON: Yes. Okay.

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1 MEMBER MUNN: I would suggest that
2 we start with one of each of the categories
3 that we identified as being most important,
4 since I personally have no feel for how long
5 each of these is going to take, and we're time
6 constrained here. So, let's try to at least
7 cover one of each of five categories.

8 CHAIRMAN GRIFFON: Yes.

9 MR. SIEBERT: This is Scott again.
10 One thing that Wanda just stated, and it may
11 not be -- I'm just curious. Is this a full
12 review of the claim, or is it a review to
13 ensure that Super S plutonium was applied
14 correctly in the PER assessment?

15 MR. KATZ: It's the latter.

16 CHAIRMAN GRIFFON: I think it's
17 the latter, yes. I think we -- we just --

18 DR. H. BEHLING: Well, this is
19 Hans. In my original write up regarding the
20 review of PER, I did make a distinction. If

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1 as a result of the PER a claim that was
2 initially a best estimate would be -- there
3 you would confine yourself basically to only
4 those issues that were subject to being
5 revised under the PER.

6 However, if it was a maximized
7 dose, which as a result of the PER then comes
8 close to being compensated like the
9 reorganization that was a maximized case would
10 then cause NIOSH to say, "Hey, now. Wait a
11 minute. We gave you certain doses that we are
12 now no longer willing to give you because
13 we're going to go over the 50 percent limit.
14 And so, we're going to revise the best --
15 we're going to revise the maximized to a best
16 estimate. Then it may turn out to be a full
17 blown review."

18 MR. KATZ: No, Hans. This was
19 discussed in the Procedures Subcommittee.
20 That's true what you're saying, but the

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1 Subcommittee was very clear that this isn't --
2 the point is not to do a full blown dose
3 reconstruction to make sure that this is
4 applied correctly, PER-12.

5 DR. H. BEHLING: Well, the
6 question then becomes was the revision of the
7 maximized dose to a best estimate done
8 correctly too? And that gives an awful lot of
9 latitude to -- to say, "Well, we're going to
10 knock it down in other areas in order to avoid
11 the compensation."

12 That's my feeling is that if it
13 was a maximized dose up front, that is now
14 being revised as a result of PER, perhaps a
15 full blown review might be appropriate.

16 CHAIRMAN GRIFFON: But different
17 purposes I think is what we're getting at.
18 There's different purposes. And I think we
19 want to make sure in this review that if a
20 maximized approach -- they added Super S on,

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1 and it went above 45 percent, where you then
2 kick into full -- if it went above the 45
3 percentile that it actually kicked in the best
4 estimate. But we wouldn't want to review the
5 best estimate case.

6 We just want to make sure the
7 system is working as it should be, and that it
8 was applied correctly. That way, NIOSH caught
9 -- NIOSH made the correction with Super S, and
10 then in their system it went into the right
11 place. It went into a best estimate approach.

12 But we're not -- that's not our
13 purpose here for this -- for these PER case
14 reviews. We're not doing our full audit kind
15 of thing. That's my take on it anyway.

16 DR. H. BEHLING: Okay, if we want
17 to be -- give the benefit of --

18 CHAIRMAN GRIFFON: It doesn't mean
19 we're not interested in it Hans. It just
20 means not for this part.

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1 DR. H. BEHLING: Okay. You're
2 more trusting than I am.

3 CHAIRMAN GRIFFON: I don't know.
4 I think I could give you a battle on that.

5 DR. ULSH: We shouldn't expect to
6 see findings on environmental dose or medical
7 dose.

8 MR. KATZ: No.

9 DR. ULSH: It'd be internal.

10 CHAIRMAN GRIFFON: Yes, yes. This
11 is like targeted task that the Subcommittee
12 has been given to look at this -- whether this
13 PER was implemented correctly. That's my
14 understanding.

15 MR. KATZ: The reporting out is to
16 the Procedures Subcommittee.

17 CHAIRMAN GRIFFON: Right.

18 MR. KATZ: What the Dose
19 Reconstruction Committee is doing here is
20 making the selections.

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1 CHAIRMAN GRIFFON: Right.

2 MR. FARVER: And if you make note
3 of those cases that were redone, then you can
4 always go back at a later date and say, "Okay,
5 maybe we want to have another look at this
6 one, or this one."

7 CHAIRMAN GRIFFON: Yes. We can
8 make notes or comments.

9 MR. HINNEFELD: It might or might
10 not be a hint whether there was an adjustment
11 made. There might be; depends on what the
12 dose reconstruction says.

13 CHAIRMAN GRIFFON: Well, we can at
14 least ask NIOSH, and you can follow up. Is
15 that possible?

16 MR. HINNEFELD: If it's not
17 apparent, it won't be apparent to us. Now, it
18 could very well be that the dose
19 reconstruction -- depends on the year that the
20 dose reconstruction was originally -- when it

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1 was done. I don't remember for sure when we
2 did this. It may very well say that these
3 were the changes that were made from the first
4 to the second, in addition to the PER. It may
5 say that, or it may not.

6 MR. SIEBERT: Most of them should
7 say that, Stu. I agree.

8 MR. HINNEFELD: Okay, thanks.
9 Okay, then it will be apparent from the
10 language and dose reconstruction.

11 CHAIRMAN GRIFFON: Okay, with that
12 in mind, to go back to Wanda's model of -- I
13 tend to agree with that. I just want to make
14 sure. I would say generally, one case from
15 each of the eight categories would be where we
16 could start here, with the one exception that
17 Scott pointed out, possibly making two from
18 that air monitoring category. One Pantex and
19 one other. You know?

20 Any other comments on how we

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1 should select?

2 MEMBER MUNN: I suggest we start
3 with 1 and 4 Pantex item from category 1.

4 CHAIRMAN GRIFFON: Volume 4?

5 MEMBER MUNN: Yes. It's lymphoma
6 and myeloma -- it's a very low PoC.

7 CHAIRMAN GRIFFON: Yes. That is
8 an odd one. Am I not understanding that? It
9 has lung checked, but it shows the IREP model
10 as lymphoma, multiple myeloma. What does that
11 mean?

12 MR. SIEBERT: The reason for that
13 is for multiple myeloma, as you remember from
14 OTIB-12, when we changed this, this is a
15 lymphoma myeloma with a change in organs.
16 Sometimes the organ of interest is the lung,
17 and that's one thing I guess I should have
18 pointed out. Remember this is based on the
19 organ of interest, not necessarily the IREP
20 model of interest.

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1 CHAIRMAN GRIFFON: Right, right.

2 Okay.

3 MEMBER MUNN: It's under the
4 Pantex one, but we have plenty of items that
5 we can --

6 CHAIRMAN GRIFFON: And I would say
7 perhaps that one is borderline, but it didn't
8 hit the 45 percentile, did it? I was going to
9 say line 5 might be a good one after that.

10 MEMBER MUNN: Yes.

11 CHAIRMAN GRIFFON: Line 4 opens,
12 okay? And line 5.

13 MR. SIEBERT: I apologize. I
14 should've numbered the cases with a separate
15 number. It would've been easier.

16 MEMBER MUNN: No, that's okay.
17 There are plenty of numbers.

18 CHAIRMAN GRIFFON: As long as we
19 don't resort these, we'll be okay.

20 DR. ULSH: In my notes, I'm

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1 writing down the NIOSH ID numbers.

2 CHAIRMAN GRIFFON: And that covers
3 the matrix 1. We just stepped out into the
4 green column.

5 MEMBER MUNN: Right.

6 CHAIRMAN GRIFFON: That gets us
7 through matrix 1. Then there's really only
8 two that fall into the second category.

9 MEMBER MUNN: Yes.

10 CHAIRMAN GRIFFON: So, I mean I
11 guess line 8 is okay.

12 MR. SIEBERT: You were skipping
13 categories 2, 3 and 4, right?

14 CHAIRMAN GRIFFON: Oh, yes, yes.
15 I'm sorry. You're right. Sorry about that.

16 DR. ULSH: Numerically the next
17 category that you said anyway was category 5.

18 CHAIRMAN GRIFFON: Five.

19 MEMBER MUNN: Five.

20 CHAIRMAN GRIFFON: Yes, you're

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1 right. Thank you, Scott. So, that's line 14.

2 Yes, 14.

3 MR. SIEBERT: Definitely a
4 multiple cancer claim. So, it covers two
5 different categories.

6 CHAIRMAN GRIFFON: Yes. I would
7 say you might want to do 8 separately as well,
8 but 5 --

9 MR. SIEBERT: I agree.

10 CHAIRMAN GRIFFON: So, around 14
11 we'll take. That's going to raise 8, and I
12 would suggest taking another one because 8 --
13 anybody have any preferences over those next
14 four?

15 MEMBER MUNN: Yes.

16 CHAIRMAN GRIFFON: Wanda has a
17 preference.

18 MEMBER MUNN: Seventeen.

19 CHAIRMAN GRIFFON: Seventeen?

20 MEMBER MUNN: Yes.

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1 CHAIRMAN GRIFFON: Seventeen it
2 is. For those on the phone, if you have a
3 difference of opinion, speak up. Category 9
4 now we're looking at. Ninety-third
5 percentile.

6 MEMBER MUNN: And 22.

7 CHAIRMAN GRIFFON: Yes, 22 is
8 exactly the one I was looking at. So, that's
9 good. We're thinking alike again, Wanda. I
10 said I think there was one other time in ten
11 years.

12 MR. SIEBERT: Line 22? I
13 apologize. I couldn't hear that.

14 CHAIRMAN GRIFFON: Line 22, yes.

15 MR. SIEBERT: Thank you.

16 CHAIRMAN GRIFFON: Then down to
17 matrix 10. Four choices. They're all from
18 the same site, yes. Why does that one say,
19 "SRS 2008?"

20 DR. ULSH: Revision.

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1 CHAIRMAN GRIFFON: Yes. What does
2 that mean?

3 MR. SIEBERT: Because it has been
4 reworked since due to other technical --
5 either -- I want to say actually an additional
6 cancer. So, we have to -- if you pick that
7 one, it has to be ensured you're looking at
8 the version that was done first after the PER
9 was put in place.

10 CHAIRMAN GRIFFON: Right. With
11 that in mind, we'll pick another one. Twenty-
12 nine maybe? Twenty-nine, is that okay?

13 MEMBER MUNN: Yes.

14 CHAIRMAN GRIFFON: And then where
15 are we at, 11?

16 MEMBER MUNN: Eleven. Site
17 perspective on --

18 DR. ULSH: -- line 35.

19 CHAIRMAN GRIFFON: Yes. Okay, 35,
20 but I would still pick another 12 separately.

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1 Not the same site maybe.

2 DR. ULSH: Thirty-eight or 39.

3 CHAIRMAN GRIFFON: Yes, so 38 or
4 39? Any preference?

5 MR. SIEBERT: I want to point out
6 the difference between 38 and 39 is -- 39 is
7 based on coworker data, and the application of
8 OTIB-49 on it.

9 CHAIRMAN GRIFFON: Okay, well, I
10 still think that's okay. Thirty-nine is okay
11 for me. Thirty-nine. And 13, last category
12 of interest. Still in this category mostly
13 from the same three sites, I guess. Maybe we
14 should pick 47 since we haven't had that site.

15 MEMBER MUNN: That'd be nice.

16 DR. ULSH: Forty-seven?

17 CHAIRMAN GRIFFON: Yes.

18 DR. ULSH: Okay.

19 CHAIRMAN GRIFFON: So, that should
20 give us nine cases. Is that okay? Everyone

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1 on the phone okay with that?

2 MEMBER RICHARDSON: Yes. That's
3 fine.

4 MEMBER PRESLEY: That's fine.

5 MR. KATZ: Did 39 make it in or
6 not?

7 CHAIRMAN GRIFFON: Yes.

8 MEMBER MUNN: Yes.

9 CHAIRMAN GRIFFON: I'll re-read
10 the cases for Scott and others. Line number
11 4, 5, 14, 17, 22, 29, 35, 39, 47.

12 MR. KATZ: Okay, so I had line 8
13 too. That thrown away?

14 CHAIRMAN GRIFFON: That's thrown
15 away.

16 MR. KATZ: Okay.

17 DR. ULSH: We're not picking from
18 that matrix. That was my fault.

19 MR. KATZ: Got it. Okay.

20 CHAIRMAN GRIFFON: Okay, then that

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1 takes care of that. And I actually don't
2 think that we'll open up the case 15 case
3 selections until after lunch. So, maybe we'll
4 break for lunch a little early, then do the --
5 if people have time to peruse over lunch that
6 large number of cases.

7 I think the difference -- Stu
8 described to me the difference that's done.
9 We have a lot of cases there to select from,
10 but they're not all necessarily finally
11 adjudicated. So, we might want to make our
12 sample a little bigger with the anticipation
13 that we're going to lose some when they go
14 through Labor.

15 MR. HINNEFELD: Yes.

16 CHAIRMAN GRIFFON: So --

17 MEMBER CLAWSON: Well, how many
18 are you thinking about, Mark? This is Brad.

19 CHAIRMAN GRIFFON: Well, what do
20 we usually -- we usually pick, John?

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1 DR. MAURO: We usually shoot for
2 30 eventually to be approved, but you start
3 off to bring to the Board a little bit more
4 than that.

5 CHAIRMAN GRIFFON: Right. So,
6 we'll probably want to get 50 from this maybe.
7 At least 50.

8 MR. HINNEFELD: If you remember,
9 we usually -- after this step, we get
10 information from ORAU on what was done --

11 CHAIRMAN GRIFFON: Right.

12 MR. HINNEFELD: And there's
13 another selection. That's usually what
14 happens. I mean taking that step, I'd get at
15 least 50. Maybe more than 50.

16 MR. KATZ: But the next step will
17 be hopefully to have a -- we don't have time
18 for another DR Subcommittee meeting.

19 CHAIRMAN GRIFFON: Right. Well,
20 we can just bring them more detailed

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1 information back to the full Board, and do
2 that selection there.

3 MR. KATZ: Yes.

4 CHAIRMAN GRIFFON: But the
5 question I'd have is if we give you 50, I
6 think you might want to find out before you
7 get all the detail, find out if they're
8 finally adjudicated. Because you can just not
9 bother to do that step if they're not finally
10 adjudicated, right?

11 MR. HINNEFELD: Yes. That's the
12 preference because that's time consuming.

13 CHAIRMAN GRIFFON: Right. And
14 then come back with that narrowed list to the
15 full Board, and we can make the final
16 selection there.

17 MR. HINNEFELD: Do this at the
18 August Board meeting.

19 MEMBER MUNN: Right.

20 MR. HINNEFELD: Okay.

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1 DR. MAURO: The next Board meeting
2 after August is not until December?

3 MR. HINNEFELD: Right.

4 DR. MAURO: Yes, if we could do
5 that in August that would keep the pipeline
6 full.

7 DR. ULSH: What about DOL?

8 MR. HINNEFELD: Well, they've
9 never had a long list before.

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: They've only got
12 like 25-30. When they got 25-30 --

13 CHAIRMAN GRIFFON: Yes. Well, if
14 we give them 50, it should be two days.

15 MR. HINNEFELD: I'd go 50-60. It
16 shouldn't take them very long.

17 CHAIRMAN GRIFFON: A couple days,
18 yes.

19 MR. HINNEFELD: And I'd call them
20 and say, "Hey, quick as you can." Just to

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1 give ORAU as much time as possible, because a
2 lot of that is time intensive.

3 CHAIRMAN GRIFFON: Right. I know,
4 because sometimes you have to open up the case
5 to see --

6 MR. HINNEFELD: Yes.

7 CHAIRMAN GRIFFON: Okay. So,
8 we'll shoot for 50 to 60 off this bigger list
9 today. And like I said, if you have a moment
10 while you're eating your lunch, try to peruse
11 them.

12 MR. HINNEFELD: It may -- we
13 selected cases that were completed all the way
14 up until two months ago. It'll probably
15 improve our odds of getting ones that are
16 adjudicated if we go back six months and just
17 don't look at any that were done between six
18 months or newer.

19 CHAIRMAN GRIFFON: Okay, that's a
20 good idea.

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1 MR. HINNEFELD: That'll improve
2 our chances to give them to DOL.

3 CHAIRMAN GRIFFON: So, new cases
4 but not real, real new cases. No, I'm just
5 saying on the phone. The other thing for
6 folks on the phone, Kathy Behling sent around
7 -- I think everyone got it - a summary of the
8 statistics for the cases selected so far. So,
9 you might want to also look at that in terms
10 of our selection out of this set.

11 MR. HINNEFELD: When did she send
12 it?

13 CHAIRMAN GRIFFON: I know we got
14 it recently. I'm not sure.

15 MS. K. BEHLING: Excuse me. I'm
16 on the phone. Stu, I'll send that to you.
17 Can I see your Excel file?

18 CHAIRMAN GRIFFON: So, this has a
19 breakdown of 356 cases. It's called "356-case
20 Statistics Document."

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1 MS. K. BEHLING: Yes.

2 CHAIRMAN GRIFFON: To all the
3 Board Members on the phone, if anyone needs
4 it, just let us know. That might be something
5 that you want to look at while you're looking
6 at the 15th set list.

7 MR. HINNEFELD: Did Kathy ask me
8 for something?

9 DR. ULSH: Kathy asked for the
10 spreadsheet that we're looking at.

11 CHAIRMAN GRIFFON: Okay, all
12 right. And with that in mind, I think we're
13 ready to break for lunch, and come back at
14 1:00.

15 MEMBER PRESLEY: Mark?

16 CHAIRMAN GRIFFON: Yes? One more
17 question.

18 MEMBER PRESLEY: This is Bob. I
19 got to go to work.

20 CHAIRMAN GRIFFON: Okay, all

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1 right. Well, we'll miss you, Bob. And have
2 fun at work.

3 MEMBER PRESLEY: Yes.

4 CHAIRMAN GRIFFON: I got to go to
5 work too at lunch. Alright.

6 MR. KATZ: Thanks, everyone.

7 (Whereupon, the above-entitled
8 matter went off the record at 11:54 a.m., and
9 resumed at 1:01 p.m.)

10 CHAIRMAN GRIFFON: We're ready to
11 start on the case selection for the 15th set
12 of cases. And everyone should have the
13 spreadsheet that was sent around. And
14 although I asked people to work at lunch, I
15 myself didn't work at lunch.

16 So, I can tell you two things --
17 one thing that I've done is I narrowed this
18 down to at least as a first cut to look at
19 cases between the 45th -- well, actually I
20 went to the 40 percentile between 40 percent

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1 PoC and 50 percent, and then sorted based on
2 most recent cases, and using Stu's advice that
3 we probably don't want to get anything too
4 recent because it probably would not be a
5 finally adjudicated case by Department of
6 Labor, I still end up with about 160 cases.

7 Having said that, I haven't shared
8 my sort with other Members. So, I'm not sure
9 how to best walk through this whole thing.

10 DR. ULSH: You said you sorted on
11 PoC and beta --

12 CHAIRMAN GRIFFON: Yes.

13 DR. ULSH: I'm making my own sort
14 right now. Down to 45 you said?

15 CHAIRMAN GRIFFON: No, about 170.

16 Oh, 40 percent? Yes. Sorry. I know we
17 should only select from this range, but it was
18 just hard for me to look at all 865 or
19 whatever. And we can still look at the last
20 three digits of that last column, right, Stu

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1 or Brant? That's the identifying number.

2 DR. ULSH: Yes.

3 MEMBER MUNN: So you stipulated
4 part of your criteria. Do you have any other
5 criteria we're balancing against?

6 CHAIRMAN GRIFFON: Nothing.

7 MEMBER MUNN: Nothing?

8 CHAIRMAN GRIFFON: No.

9 MEMBER MUNN: Nothing below 40?

10 CHAIRMAN GRIFFON: I think we
11 should try to keep in mind the statistics that
12 we have. You know, that were presented to us.
13 I'm just wondering if I should forward this,
14 my sort, to people.

15 MEMBER MUNN: It might be easier.
16 But if we're not going to go down them one at
17 a time.

18 CHAIRMAN GRIFFON: That's what I
19 mean. If I'm going to go through my numbers,
20 it'd be all over the place on your

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1 spreadsheet.

2 MR. STIVER: I got the same sort.
3 It'd probably be better for all of us to
4 extract that through a different file.

5 CHAIRMAN GRIFFON: Yes. You might
6 be -- what was your total number?

7 MR. STIVER: 186.

8 CHAIRMAN GRIFFON: 186. Yes,
9 that's about right.

10 MR. STIVER: I didn't restrict the
11 dates.

12 CHAIRMAN GRIFFON: Yes. I got
13 202, but I also noticed that I have like a
14 couple 39. So, I might've went a little
15 below.

16 MR. STIVER: The highest was
17 50.02.

18 DR. ULSH: If you just give the
19 selection ID to me --

20 CHAIRMAN GRIFFON: Yes. Yes,

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1 that's true. Well, I can just take an initial
2 crack, but if other people had others, I don't
3 want to exclude other options.

4 MR. STIVER: You don't want to
5 restrict it up to January 2011 to make sure
6 that --

7 CHAIRMAN GRIFFON: Yes. I was
8 saying I was looking at my others starting in
9 January. So, I have -- I mean I have one here
10 that's interesting. It's case number 129.
11 You going by the last four digits on column A?

12 MR. STIVER: 129?

13 CHAIRMAN GRIFFON: Yes. PoC is
14 49.523421. Very precise.

15 MR. STIVER: Not precise enough.

16 MEMBER MUNN: And we are sure that
17 all those digits are --

18 CHAIRMAN GRIFFON: It's an item,
19 okay? So, I don't think we've had a lot of
20 items. That's one to start us off. Okay with

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1 that one?

2 MEMBER MUNN: And the number again
3 was?

4 DR. ULSH: 129.

5 MEMBER MUNN: 129.

6 CHAIRMAN GRIFFON: Next one is
7 332. This does jump around a bit.

8 MR. STIVER: The Argonne.

9 CHAIRMAN GRIFFON: Yes.

10 MR. STIVER: 42.9?

11 CHAIRMAN GRIFFON: Right. Yes,
12 and we haven't done as many as Argonne West.

13 MEMBER MUNN: Next?

14 CHAIRMAN GRIFFON: Next one I have
15 is 530. This is going in order on yours.

16 MR. STIVER: Are we going right
17 down?

18 CHAIRMAN GRIFFON: Yes. I'm not
19 necessarily going to take all these, but this
20 one is a Hanford. It's got all digestive and

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1 a skin. Should be pretty close, John.
2 Basically the same sort. I went a little
3 lower than 40, I think. So, I got some 38-39.
4 I think I must've gone down to 38.

5 MR. STIVER: Restricting up
6 through January?

7 CHAIRMAN GRIFFON: Yes. So,
8 that's 530. That's three cases so far, right?

9 MEMBER MUNN: Yes.

10 MR. STIVER: Are you just kind of
11 identifying every fifth one, or just go
12 straight down the line? I guess it really
13 doesn't --

14 CHAIRMAN GRIFFON: Well --

15 MR. KATZ: Either way, it's
16 random.

17 CHAIRMAN GRIFFON: True. Skipping
18 some of these that are -- there's several
19 skins here. I mean I have this Spencer
20 Chemical. Have we done Spencer Chemical? I'm

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1 looking at the other chart.

2 MEMBER MUNN: I don't think so.

3 DR. ULSH: Case number?

4 MEMBER MUNN: Let's see. Spencer
5 Chemical -- I don't see it.

6 MS. K. BEHLING: No. I don't see
7 a Spencer on here.

8 MEMBER MUNN: Kathy didn't have
9 it. Kathy didn't --

10 CHAIRMAN GRIFFON: Okay. Number
11 676, that's just below 40. You shouldn't have
12 that one on your -- 676.

13 MEMBER CLAWSON: I show a Spencer
14 Chemical in Jayhawk Works.

15 CHAIRMAN GRIFFON: Yes, yes.
16 That's it.

17 MR. KATZ: Want to do that one?

18 CHAIRMAN GRIFFON: That's the one.

19 MEMBER MUNN: Seventy-six?

20 CHAIRMAN GRIFFON: Yes.

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1 MEMBER MUNN: That's supposed to
2 be --

3 CHAIRMAN GRIFFON: Last three
4 digits, not the line number. Right?

5 MR. STIVER: Yes. Look at the
6 date. It's 12/29/2010.

7 CHAIRMAN GRIFFON: Yes. All
8 right, next one I have is 28. This is
9 multiple cancers, multiple sites really. Oak
10 Ridge and X10 Y12. Thirty years. It seems
11 like a complicated work history one.

12 MR. STIVER: What's the date on
13 that?

14 CHAIRMAN GRIFFON: 12/28/2010.
15 It's number 28.

16 MR. STIVER: PoC?

17 CHAIRMAN GRIFFON: 48.8.

18 DR. ULSH: Up to 5 right?

19 CHAIRMAN GRIFFON: Yes. Plugging
20 away here. I have 41, a Hanford. Many years

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1 of experience.

2 MEMBER MUNN: What number?

3 CHAIRMAN GRIFFON: Forty-one.

4 MEMBER MUNN: Forty-one. Thank
5 you.

6 CHAIRMAN GRIFFON: And then also
7 42, Savannah River. 669, Pantex. 741,
8 Fernald. On the phone, if people have
9 opinions on these, please chime in. I'm
10 pausing a little to give people time to look
11 at the line. 705 is the next one I have,
12 Allied Chemical. Did we do Allied, Kathy?

13 MR. STIVER: We've done Allied.

14 CHAIRMAN GRIFFON: We have done
15 Allied.

16 MR. STIVER: Actually did one
17 myself.

18 MS. K. BEHLING: Yes.

19 DR. MAURO: And we have an active
20 Site Profile review also going on for Allied.

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1 Just letting you know.

2 MS. K. BEHLING: And to Allied,
3 2.5 percent is 4.

4 CHAIRMAN GRIFFON: Okay, we can
5 keep it in there for now. I think we -- Stu
6 wants a larger list than a smaller.

7 MR. HINNEFELD: Larger is better
8 than smaller. I think we'll lose a lot.

9 CHAIRMAN GRIFFON: Yes. That's
10 ten. We're a fifth of the way maybe.

11 DR. MAURO: Mark, this is John. I
12 got a question. While you're going through
13 the process and sorting through candidate
14 cases, a thought we had amongst ourselves here
15 at SC&A was while you're doing this, you could
16 actually create a pool so that it represents -
17 - actually accumulate cases, and leave -- you
18 know, pick the ones -- the Board will pick the
19 ones that they wish to pick.

20 CHAIRMAN GRIFFON: Yes, Doug

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1 brought that up too.

2 DR. MAURO: And leave the pool
3 behind.

4 CHAIRMAN GRIFFON: Yes, we vetoed
5 that already, John. Sorry.

6 DR. MAURO: Oh, we did veto that.
7 Okay.

8 CHAIRMAN GRIFFON: You're out of
9 order.

10 (Laughter.)

11 DR. MAURO: Never mind.

12 CHAIRMAN GRIFFON: We want to
13 stick with our batch processing for now.

14 DR. MAURO: Okay.

15 CHAIRMAN GRIFFON: I know what
16 you're saying. We got a little system. I
17 think we --

18 DR. MAURO: No -- no problem. No
19 problem.

20 CHAIRMAN GRIFFON: Yes, for now.

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1 MR. KATZ: Case 705?

2 CHAIRMAN GRIFFON: Case 705 was
3 the last one. Next two I have are -- I have
4 269.

5 MR. KATZ: 269, General Atomics?

6 CHAIRMAN GRIFFON: Yes. That's
7 also 49.7 percent. And then 638, which is
8 Mound. Again, these are also -- I sorted from
9 most recent to older cases. So, these are all
10 fairly new cases. I'm at 10/1 now on that
11 one. That was processed October last year.

12 MR. KATZ: Kathy, what are some
13 sites where we have sort of -- on the low end
14 of percentage we've sampled up till now?

15 MS. K. BEHLING: Well, let's see
16 here.

17 MEMBER MUNN: Bethlehem Steel
18 seems pointless.

19 MS. K. BEHLING: Yes, Bethlehem
20 Steel, Fernald. These are not -- actually

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1 Hanford. I know we had a few of those.

2 MR. KATZ: Okay.

3 MS. K. BEHLING: K25, Paducah, and
4 even Savannah River, believe it or not.

5 CHAIRMAN GRIFFON: So, even though
6 we're picking a lot of those cases, they're
7 still -- yes, a lot of claims right? Yes.

8 MEMBER MUNN: Yes.

9 MS. K. BEHLING: Y-12.

10 DR. ULSH: Are you committed to
11 not looking at any compensable cases?

12 CHAIRMAN GRIFFON: No, no.

13 DR. ULSH: There's a site here,
14 C.H. Schnorr. I've never heard of it.

15 MR. KATZ: What case number is
16 that?

17 DR. ULSH: Well, the selection ID
18 is 590.

19 MR. KATZ: Case 590.

20 MEMBER CLAWSON: Which site was

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1 that, Brant?

2 DR. ULSH: C.H. Schnorr.

3 MEMBER MUNN: Sounds like a bad
4 joke.

5 MR. KATZ: S-C-H-N-O-R-R?

6 DR. ULSH: Yes.

7 CHAIRMAN GRIFFON: Hopefully there
8 will be no snoring in here later.

9 DR. ULSH: PoC is 65.8 unchanged.

10 CHAIRMAN GRIFFON: But you're
11 right; we want to look at the site too. So,
12 yes, yes. All right, that's 590. You got
13 that? Let me get through -- I'm not committed
14 just to doing these in the 40 to 50 range, but
15 we're about halfway through the list.

16 So, maybe we can -- that was my
17 first cut. Then maybe we'll go back to the
18 part of the -- the other thing is for like
19 Bethlehem Steel, even though we're low on
20 numbers, I don't think we need anymore because

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1 it's a one-size-fits-all.

2 MEMBER MUNN: Pointless.

3 CHAIRMAN GRIFFON: Yes. So,
4 there's certain reasons why we can not try to
5 match our --

6 MR. KATZ: Oh, absolutely.

7 CHAIRMAN GRIFFON: Yes, yes.
8 Alright.

9 MEMBER MUNN: Ignore it. They
10 have what they wanted.

11 CHAIRMAN GRIFFON: I have 623 as
12 the next one I found, which is an X10, and
13 it's stomach and all male genitalia. And 561,
14 which is a Hanford and PNL, yes. 531, this is
15 an all-male genitalia, also interesting
16 because it's K25 X10, a Rocky Flats multiple-
17 site kind of thing. 531, that is.

18 Number 20, X10, stomach cancer.
19 This one is -- well, I don't know, this one is
20 unique to me. Well, it's skin cancer, but

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1 it's Albuquerque Operations Office. This is
2 43. So, I think the job site of it is kind of
3 unique, right? It must be a DOE Albuquerque
4 Operations Office, right.

5 MEMBER MUNN: Got to be.

6 CHAIRMAN GRIFFON: Yes. Let's see
7 102, oral cavity and pharynx.

8 MR. FARVER: On 102, column E, is
9 that the years worked?

10 CHAIRMAN GRIFFON: Yes, that's the
11 other reason I like that one. The person
12 worked 99.5 years. We want to examine this
13 person.

14 MEMBER MUNN: Fascinating.

15 MR. STIVER: This other guy's got
16 200.6 years.

17 CHAIRMAN GRIFFON: Yes, yes. I
18 know.

19 MR. KATZ: What site, sorry?

20 CHAIRMAN GRIFFON: Battelle Labs,

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1 King Avenue. I don't even know if -- yes,
2 something is up with -- a couple that have
3 years worked show weird things. Okay, 675 is
4 Los Alamos. That should have us at 20. Does
5 that agree with your numbers, Ted?

6 MR. KATZ: Yes.

7 CHAIRMAN GRIFFON: Okay. Oh, I
8 haven't seen this before. Amchitka, has to be
9 a skin cancer. Yes, Amchitka, but they also
10 worked at Lawrence Livermore.

11 DR. ULSH: What's the case number?

12 CHAIRMAN GRIFFON: 323. That may
13 require a site visit.

14 MR. HINNEFELD: He worked on the
15 Pacific Proving Grounds, too, Johnson Atoll
16 and Amchitka.

17 MEMBER MUNN: That means be
18 careful.

19 CHAIRMAN GRIFFON: How about 66?
20 This is again the multiple Oak Ridge things,

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1 E25, X10, Y-12. 210 is a Hanford case, 48
2 percent, and multiple cancers.

3 MEMBER MUNN: What's that number
4 again?

5 CHAIRMAN GRIFFON: 210. 101 is a
6 Hanford case, stomach cancer is obvious. I'm
7 also just thinking about decade worked.
8 Kathy, on decade worked, are we weak in -- for
9 a while, we were running weak in the 80's and
10 the later decades. Is that still true? I
11 mean, given that cancer is --

12 MS. K. BEHLING: That's true, yes.

13 CHAIRMAN GRIFFON: -- a reality.
14 Yes.

15 MEMBER RICHARDSON: Could you tell
16 me what that means? Was that the decade of
17 hire?

18 CHAIRMAN GRIFFON: Decade -- yes,
19 decade of hire. Decade first employed.

20 MEMBER RICHARDSON: Okay.

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1 CHAIRMAN GRIFFON: So --

2 MEMBER RICHARDSON: Which explains
3 why that goes back to the 1920's or --

4 MEMBER MUNN: Yes.

5 MR. HINNEFELD: So did AWE. If
6 the person worked in the AWE. No, it'll go
7 earlier --

8 CHAIRMAN GRIFFON: Oh, because
9 they were employed before.

10 MR. HINNEFELD: If they were
11 employed at that AWE before --

12 CHAIRMAN GRIFFON: Got it.
13 Sometimes they're typos.

14 MEMBER RICHARDSON: Yes. When I
15 sorted by that, it goes from the 1920's to
16 2000's.

17 CHAIRMAN GRIFFON: Yes, yes.

18 MR. STIVER: What was the last one
19 you called out?

20 CHAIRMAN GRIFFON: 101 was the

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1 last one I had. Next one I have is 319.

2 MR. KATZ: What site?

3 CHAIRMAN GRIFFON: Los Alamos and
4 Nevada Test Site. I'll just leave it there.
5 I was looking. I haven't sorted by decade, but
6 I was starting to look for related decades,
7 and it is difficult to find this one.

8 MR. KATZ: While Mark is doing
9 that, someone else may want to do SRS,
10 Paducah, Fernald. Those are all ones that
11 we're weak on. We've picked up some K25 and
12 Hanford in this batch already.

13 CHAIRMAN GRIFFON: Yes. I have 34
14 as a Savannah River option. 212, a Hanford
15 case. This is interesting to me because it's
16 49.9, a lung case and the person worked there
17 0.8 years.

18 MR. KATZ: Wow.

19 DR. ULSH: It was approved April
20 20th of last year.

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1 CHAIRMAN GRIFFON: Yes, last year.

2 Should be going back in.

3 MEMBER RICHARDSON: Mark, is there
4 any concern about the -- kind of validity of -
5 - of that information in that column?

6 CHAIRMAN GRIFFON: Yes. That's
7 why we get another cut at this, David.
8 Remember the -- NIOSH is going to go back and
9 pull stats together, more information on these
10 cases, and bring it to the full Board meeting.
11 Then we'll get another cut at this list. So,
12 as it turns out, that should come out at the
13 next meeting.

14 MEMBER RICHARDSON: Okay.

15 CHAIRMAN GRIFFON: All right?

16 MEMBER RICHARDSON: Thanks.

17 CHAIRMAN GRIFFON: Yes.

18 MEMBER MUNN: 212 listed how many

19 --

20 MR. KATZ: Case 212, yes.

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1 MEMBER MUNN: Oh, I thought you
2 said some huge number.

3 CHAIRMAN GRIFFON: No, 283: huge
4 if you don't like to work, I guess.

5 MEMBER MUNN: Yes.

6 CHAIRMAN GRIFFON: Here's a
7 Fernald case, 349. It's only 3.3 years'
8 experience, but it is in the 1990's. It's a
9 later time period. Excuse me?

10 MR. STIVER: It's a lot of
11 different cancers.

12 CHAIRMAN GRIFFON: Yes, lots of
13 cancers.

14 MEMBER CLAWSON: Hey, Mark. This
15 is Brad. I'd also like to compliment Kathy on
16 this breakdown that she put out for us. It
17 sure makes it a lot more interesting to me.

18 CHAIRMAN GRIFFON: Yes, that was
19 very helpful. Case 30, Savannah River.
20 Brant, are you up to 29?

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1 DR. ULSH: Yes.

2 CHAIRMAN GRIFFON: Okay. Just
3 wanted to make sure I didn't miss one on my
4 own list.

5 DR. ULSH: You're halfway home.

6 CHAIRMAN GRIFFON: Excuse me.
7 Number 45, another Fernald case, multiple
8 cancers. That's 30. Yes, I think we should
9 probably shoot for 60. Almost through this
10 list of high PoC, and then we'll go back to
11 the full. 613 and 48, two Savannah River
12 cases.

13 MR. KATZ: Case 48?

14 CHAIRMAN GRIFFON: Yes.

15 MR. KATZ: Why doesn't someone
16 hunt up some Paducah cases in this batch?

17 DR. ULSH: Is that 32, Mark?

18 MR. KATZ: Yes, that's 32.

19 CHAIRMAN GRIFFON: 32. If someone
20 else wants to sort this whole thing by site,

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1 we can look at it that way. We've done
2 General Steel, correct?

3 MEMBER MUNN: GSI?

4 MR. KATZ: We've done a number of
5 cases.

6 CHAIRMAN GRIFFON: We've done a
7 number of cases, right.

8 MR. KATZ: How are we on a
9 percentage sense, Kathy, on GSI?

10 MS. K. BEHLING: Four out of
11 seven.

12 CHAIRMAN GRIFFON: Isn't it a one-
13 size-fits-all kind of --

14 MEMBER MUNN: They're halfway
15 through them, but it wouldn't hurt to have
16 some more.

17 CHAIRMAN GRIFFON: Well, let's put
18 317 on the list. Just a GSI pancreas, with
19 one difference maybe. Have we done Alcoa,
20 number 584? We've done one? Have we done

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1 any?

2 MS. K. BEHLING: Yes, we've done
3 one.

4 CHAIRMAN GRIFFON: Okay.

5 MS. K. BEHLING: And 2.5 percent
6 is 1.

7 CHAIRMAN GRIFFON: 2.5 percent
8 would be 1?

9 MS. K. BEHLING: That is correct,
10 yes.

11 CHAIRMAN GRIFFON: We would've
12 done our quota? All right, maybe we don't
13 need that one. Forget that one.

14 MEMBER MUNN: Well, we might as
15 well over-quota on some of these.

16 CHAIRMAN GRIFFON: Yes, it's true,
17 but I don't care. I'm indifferent on that
18 one. Let's skip it. And Medina, we have done
19 Medina. Correct, Kathy?

20 MS. K. BEHLING: Yes, Medina 1 and

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1 2.5 percent is 1.

2 CHAIRMAN GRIFFON: All right,
3 we'll leave it at that.

4 MR. KATZ: John, can you sort by
5 Paducah? Pull up some Paducah cases?

6 CHAIRMAN GRIFFON: Ted really
7 wants some Paducah cases.

8 MR. KATZ: Well, I just think we
9 ought to --

10 CHAIRMAN GRIFFON: I know. I
11 know.

12 MR. KATZ: It's a little under-
13 represented. That's all.

14 CHAIRMAN GRIFFON: I would be
15 doing it if I wasn't doing it.

16 MR. KATZ: Well, no. That's why
17 I'm asking John.

18 CHAIRMAN GRIFFON: How about
19 ElectroMet, Electro Metallurgical, 545? But I
20 want Kathy to --

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1 MS. K. BEHLING: We've done one,
2 and two is the 2.5 percent.

3 CHAIRMAN GRIFFON: All right,
4 we'll do one of those, 545. Okay, 407 is X10,
5 Y-12, liver cancer.

6 MR. STIVER: Ted, is there a
7 particular site you're interested in?

8 MR. KATZ: Paducah. We've gotten
9 quite a lot of Hanford in this batch now.
10 We've gotten in several Fernald.

11 DR. ULSH: Oak Ridge sites, so.

12 MR. KATZ: Yes, we've gotten okay
13 on K25, I think. Well, we've got a couple of
14 K25.

15 MR. STIVER: There are four --
16 about seven Paducah cases.

17 CHAIRMAN GRIFFON: Actually, I'm
18 at the end of my list. The last one is
19 Paducah, and it's 48.9 percent. I think we
20 should probably do that. Number 44. So,

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1 that's --

2 MR. KATZ: Thirty-six.

3 CHAIRMAN GRIFFON: -- 36.

4 MR. KATZ: John, what are another
5 couple Paducah ones that look good?

6 MR. STIVER: Oh, let's see. We've
7 got a couple that are above the payoff. Let's
8 see. There's one at 50.5 percent, number 430.

9 DR. ULSH: About two years worked.

10 MR. STIVER: About two years.
11 Another one from 1970's, which is 50.1. These
12 are both skin cancers. There's a 34th
13 percentile colon for only a half year worked.

14 MR. KATZ: What case number is
15 that?

16 MR. STIVER: That's 264.

17 CHAIRMAN GRIFFON: Wait. I didn't
18 get the last one.

19 MR. STIVER: Last one was 430.

20 DR. ULSH: Are we going to pick

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1 that one?

2 CHAIRMAN GRIFFON: Hold on. I
3 have it sorted differently. So, 430. Yes, I
4 mean, it's skin cancer. It's above -- it's
5 above 50.

6 MR. STIVER: That was 430.
7 There's another one that's kind of
8 interesting. It's a fairly low PoC. It's
9 only 34. About half a year of work in the
10 1950's.

11 MR. KATZ: What case number is
12 that?

13 MR. STIVER: That's 364.

14 CHAIRMAN GRIFFON: 364 is a half a
15 year worked.

16 MR. STIVER: Only a half year
17 worked and colon as well as skin cancers.

18 DR. ULSH: So, you want that one?

19 CHAIRMAN GRIFFON: Yes, it's fine.

20 MR. STIVER: So far I've got 44,

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1 430 and 364 for Paducah. Three is enough?

2 CHAIRMAN GRIFFON: I just did a
3 different sort of years -- of year worked,
4 work decade I mean. I sorted work decade
5 backwards to look at some of the later -- and
6 actually going from 1994, there's only eight
7 cases, which makes sense. But maybe in the
8 80's, I know that we don't have very many in
9 the 80's, or even in the 70's for that matter.

10 So, I was just going to -- there
11 is a Fernald, 759. It's over 50 percent, but
12 it was starting decade 1980.

13 MR. KATZ: Did you say Fernald?

14 CHAIRMAN GRIFFON: Yes, 759.

15 MR. KATZ: Okay.

16 CHAIRMAN GRIFFON: There's a 354,
17 Savannah River, 49th percentile, 1980 decade.

18 That brings us to 40, correct?

19 DR. ULSH: That was 359?

20 CHAIRMAN GRIFFON: 354. And 367,

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1 also Savannah River, but also 49 percentile.

2 I hope I didn't overlap any of these because

3 I'm doing them in different --

4 MR. KATZ: Nope.

5 CHAIRMAN GRIFFON: So, tell me if

6 I do an overlapping number.

7 MR. KATZ: Okay.

8 CHAIRMAN GRIFFON: 638 is a Mound

9 site, 48 percent in the 1980's.

10 MR. HINNEFELD: We already got

11 that one.

12 CHAIRMAN GRIFFON: Okay, sorry.

13 It's from the same sheet. That's how that

14 happened.

15 MR. STIVER: I missed the number

16 for the Fernald case.

17 CHAIRMAN GRIFFON: 367.

18 MR. STIVER: I thought that was

19 Savannah River.

20 CHAIRMAN GRIFFON: No.

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1 MEMBER MUNN: That's 354.

2 MR. STIVER: Yes, 354 I have as
3 the --

4 CHAIRMAN GRIFFON: You missed the
5 -- Fernald was 759. Did you get that one?

6 MR. STIVER: Okay, I got that one.

7 DR. ULSH: Another interesting
8 site for you, complicated project, Gnome
9 Nuclear Explosion site.

10 CHAIRMAN GRIFFON: Yes.

11 DR. ULSH: It's 109.

12 CHAIRMAN GRIFFON: 109? That's
13 the -- PoC, what is it?

14 DR. ULSH: PoC is 50.4, lots of
15 cancers, organ, skin. It's NTS in Project
16 Gnome.

17 MR. KATZ: How do you spell Gnome?

18 DR. ULSH: G-N-O-M-E.

19 CHAIRMAN GRIFFON: 109.

20 DR. ULSH: Do you want that one?

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1 CHAIRMAN GRIFFON: Yes. I have
2 176, Pinellas Plant. Again, I'm going by
3 decade. That's why I'm going for that one.
4 It's 1980.

5 MR. KATZ: How are we, Kathy, on
6 Sandia, in terms of representation?

7 MS. K. BEHLING: Sandia we had one
8 case, and we should have eight.

9 MR. KATZ: Okay, so that's one to
10 -- Sandia.

11 CHAIRMAN GRIFFON: Did you see any
12 for Sandia that you're interested in?

13 MR. KATZ: No. I haven't seen
14 any.

15 CHAIRMAN GRIFFON: Alright. Have
16 we done this extrusion plant, Reactive Metals,
17 Inc.?

18 MS. K. BEHLING: Let me look here.

19 CHAIRMAN GRIFFON: Case 720.

20 MS. K. BEHLING: I do not see

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1 that, no.

2 CHAIRMAN GRIFFON: It says
3 Extrusion Plant, Reactive Metals, Inc.

4 DR. ULSH: RMI?

5 CHAIRMAN GRIFFON: RMI, okay. I'm
6 not used to seeing --

7 MS. K. BEHLING: Okay, we have
8 done one.

9 CHAIRMAN GRIFFON: You've done one
10 of those?

11 MS. K. BEHLING: Yes.

12 CHAIRMAN GRIFFON: And we probably
13 needed one, right?

14 MS. K. BEHLING: That's right.

15 CHAIRMAN GRIFFON: All right. So,
16 let's skip that one. I'm not used to seeing
17 RMI. That's why I didn't -- here's a Paducah.
18 I'm moving to decade -- the 70's. I'm in the
19 70's now. Number 110. It's compensable, but
20 it's -- yes, it's fine. What does that bring

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1 us up to, 42?

2 DR. ULSH: It would be 44.

3 MR. KATZ: The last four, Mark,
4 are 367, 109, 176 and 110.

5 CHAIRMAN GRIFFON: All right, I'll
6 trust you guys. I lost track of the list of -
7 -

8 MR. KATZ: So, while we're working
9 on this, John or Doug, can you hunt up some
10 Sandia?

11 CHAIRMAN GRIFFON: He's multi-
12 tasking. That's good.

13 MR. KATZ: Just to get us there.

14 CHAIRMAN GRIFFON: It's like radio
15 silence in this meeting.

16 MR. STIVER: I only got three for
17 Sandia here. The highest PoC is case 250,
18 1960's --

19 CHAIRMAN GRIFFON: 250?

20 MR. STIVER: 250.

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1 CHAIRMAN GRIFFON: Alright, let's
2 get that one on there.

3 MR. KATZ: We could use another
4 one.

5 MR. STIVER: Let's see. 657, low
6 PoC for gall bladder.

7 MEMBER MUNN: What was that
8 number?

9 MR. STIVER: 657.

10 MEMBER MUNN: 657?

11 MR. STIVER: Correct, yes.

12 CHAIRMAN GRIFFON: What's the PoC?

13 MR. STIVER: 22.5, gall bladder.

14 CHAIRMAN GRIFFON: That's fine,
15 657. How about this one, sticking with the
16 gall bladder, 797? It's Brookhaven National
17 Labs. I don't think we had many. We may
18 have. 1970, though again. I was looking at
19 the decade.

20 MR. KATZ: 797?

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1 CHAIRMAN GRIFFON: 797, yes.

2 MR. KATZ: Yes.

3 CHAIRMAN GRIFFON: Is that okay
4 with everybody? Brings our total up to?

5 MR. KATZ: Forty-seven.

6 CHAIRMAN GRIFFON: I like this
7 670, Y-12, liver, started in the 70's, 35
8 years experience.

9 MEMBER RICHARDSON: So, this is
10 focusing on -- I was wondering about --
11 looking at the report, the breakdown by cancer
12 type, there aren't that many livers there.

13 CHAIRMAN GRIFFON: Right. Yes,
14 and I was also thinking, David, that I'd just
15 -- I'm doing this from my head because I don't
16 have Kathy's chart up. If I'm remembering
17 this correctly, we've been a little lower on
18 the 70's and 80's and 90's as far as looking
19 at those decades of first hire. You know,
20 part of it is just because you're -- the older

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1 people are getting cancer.

2 So, I was trying to get some
3 samples from -- we also have different issues,
4 especially in the 80's when you start the
5 clean up regime and different kinds of issues
6 to look at. So, where are we at, 49?

7 MR. KATZ: Eight.

8 CHAIRMAN GRIFFON: Forty-eight.
9 If we can get 10 or 12 more, I think that
10 would make Stu happy, Brant happy. The more
11 the better. I know. How about Hooker
12 Chemical? Kathy, have we had a lot of Hooker
13 Electrochemical?

14 MS. K. BEHLING: Let's see here.
15 Yes.

16 CHAIRMAN GRIFFON: We have what we
17 need?

18 MEMBER MUNN: We have exactly what
19 we need.

20 CHAIRMAN GRIFFON: Okay.

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1 MEMBER MUNN: Going by Kathy's
2 chart.

3 CHAIRMAN GRIFFON: All right. How
4 about Reduction Pilot?

5 MR. HINNEFELD: That's also called
6 the Huntington Pilot Plant.

7 CHAIRMAN GRIFFON: Oh, it is
8 Huntington. I thought that had a different
9 name.

10 MEMBER MUNN: That's something
11 else then.

12 CHAIRMAN GRIFFON: So, we have
13 Huntington then.

14 MEMBER MUNN: We have Huntington.

15 MS. K. BEHLING: Yes.

16 MEMBER MUNN: We didn't even have
17 any requirement on that.

18 CHAIRMAN GRIFFON: Okay. How
19 about NUMEC, NUMEC Parks Facility?

20 MS. K. BEHLING: We had one NUMEC

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1 Parks Township out of two.

2 CHAIRMAN GRIFFON: All right, how
3 about number 448? How about BWXT?

4 MS. K. BEHLING: No, we don't have
5 any BWXT. No.

6 DR. ULSH: I saw one in here.
7 What's the number?

8 CHAIRMAN GRIFFON: Number 439.

9 MR. KATZ: That makes 50.

10 CHAIRMAN GRIFFON: That's 50?

11 MR. KATZ: Yes.

12 CHAIRMAN GRIFFON: What is BWXT?
13 Where is that?

14 MR. HINNEFELD: Lynchburg,
15 Virginia.

16 CHAIRMAN GRIFFON: That's right.
17 Okay.

18 MR. HINNEFELD: It's a commercial
19 plant. Actually, mainly makes Navy fuel, but
20 they had non-Navy contracts for a while.

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1 CHAIRMAN GRIFFON: Okay. Let's
2 see. There's a Hanford: 689.

3 MEMBER RICHARDSON: What about K-
4 25?

5 CHAIRMAN GRIFFON: Yes, did you
6 sort by site?

7 MEMBER RICHARDSON: Yes.

8 CHAIRMAN GRIFFON: Let's put 689
9 on the list first, and then go ahead, David.
10 What do you got?

11 MEMBER RICHARDSON: Well, do you
12 have 417 on there right now?

13 CHAIRMAN GRIFFON: Stand by.

14 MR. KATZ: No.

15 MEMBER RICHARDSON: That's K-25 in
16 the 1970's, with a skin cancer, and I think
17 all three of those are categories that are
18 under-represented.

19 CHAIRMAN GRIFFON: 417, okay.
20 We'll add that one.

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1 MR. KATZ: Yes.

2 CHAIRMAN GRIFFON: Good.

3 MEMBER RICHARDSON: And there's
4 another one that's similar. It's 717.

5 MR. KATZ: That's also K-25?

6 MEMBER RICHARDSON: K-25 from the
7 1970's with a skin cancer.

8 CHAIRMAN GRIFFON: We didn't get
9 that one before, did we?

10 MEMBER MUNN: No, we didn't.

11 DR. ULSH: That's 58 years worked.

12 CHAIRMAN GRIFFON: Yes. Something
13 happened with the years worked.

14 MR. HINNEFELD: Sometimes that is
15 from the individual years that the --

16 CHAIRMAN GRIFFON: Right.

17 MR. HINNEFELD: But I don't know
18 if that's what happened here or not.

19 CHAIRMAN GRIFFON: Yes.

20 MR. HINNEFELD: What may have

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1 happened is, oftentimes when we get a referral
2 from Oak Ridge, there won't be a record of
3 which plant, and they'll refer all three. And
4 then they'll include a years-worked, and it
5 may include the same period for all three
6 because they don't know where they worked.
7 So, that's probably --

8 CHAIRMAN GRIFFON: Yes.

9 MR. HINNEFELD: He probably worked
10 there about 20.

11 CHAIRMAN GRIFFON: Yes.

12 MR. KATZ: Kathy, when you do your
13 accounting, when someone has worked at
14 multiple sites, do you put them in each of
15 those?

16 MS. K. BEHLING: Yes, I do.

17 MR. KATZ: Okay, that makes sense.

18 CHAIRMAN GRIFFON: I just sorted
19 by site to flip through -- just to see if I
20 see anything different.

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1 MEMBER RICHARDSON: And 341, this
2 lung cancer case, K-25, 52 percent.

3 CHAIRMAN GRIFFON: That's fine.
4 So, we have Santa Susana. How many do we need
5 from there?

6 MS. K. BEHLING: We did one Santa
7 Susana, and we can do seven. We should do
8 seven.

9 CHAIRMAN GRIFFON: All right,
10 there's a couple of those on here. I mean,
11 maybe number 502. It does have multiple
12 sites, but it does have Santa Susana.

13 MR. STIVER: Is that the only one
14 we have for Santa Susana?

15 CHAIRMAN GRIFFON: No, there's a
16 couple more, but they're not -- well, number
17 815 is the last.

18 MR. STIVER: Yes, restricted Santa
19 Susana.

20 CHAIRMAN GRIFFON: Yes. That's

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1 only that site. Yes. I didn't know that that
2 plant was Santa Susana. Where is the BONUS
3 Reactor Plant, and the Puerto Rico Nuclear
4 Center?

5 MEMBER MUNN: Must be Puerto Rico.

6 MR. HINNEFELD: Facility in Puerto
7 Rico.

8 CHAIRMAN GRIFFON: Definitely site
9 visit on that one, yes.

10 DR. ULSH: What case is that?

11 CHAIRMAN GRIFFON: 126.

12 MR. KATZ: Do you want it?

13 CHAIRMAN GRIFFON: I mean, is this
14 -- is this one that we have -- you guys have
15 never heard of it before, right?

16 MR. HINNEFELD: Well, I've heard
17 of it.

18 CHAIRMAN GRIFFON: You've heard of
19 it?

20 MR. HINNEFELD: But I don't know

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1 anything about it.

2 CHAIRMAN GRIFFON: Right. I'm not
3 sure we need that. I mean I don't even know
4 if there's a handful of claims. It might just
5 be --

6 MR. HINNEFELD: Well, you can keep
7 going. I'll --

8 CHAIRMAN GRIFFON: Yes, okay.

9 MR. HINNEFELD: I'll let you know.

10 CHAIRMAN GRIFFON: All right.

11 MS. K. BEHLING: Mark?

12 CHAIRMAN GRIFFON: Put down 126 as
13 a star right now while Stu looks. Go ahead,
14 Kathy.

15 MS. K. BEHLING: Can I suggest
16 Heald Machine Company? There are several on
17 this list, and that has it's own exposure
18 matrix, and there's none on the list.

19 CHAIRMAN GRIFFON: Okay, that's
20 the input I want.

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1 MR. KATZ: What case number?

2 MS. K. BEHLING: Well, there are
3 three. It's 840, 736, 718.

4 CHAIRMAN GRIFFON: Heald Machine
5 Company, yes. The PoC's are very low.

6 MS. K. BEHLING: All lung, but we
7 have not done that exposure matrix.

8 CHAIRMAN GRIFFON: Yes, looks like
9 exposure didn't -- it's a natural background.
10 Yes, so I think selecting one of those would
11 be -- since there's a matrix, right? 736 is
12 fine.

13 DR. ULSH: 736.

14 CHAIRMAN GRIFFON: The one with
15 the high PoC.

16 MEMBER MUNN: What about
17 Cincinnati Milling Machine?

18 CHAIRMAN GRIFFON: Anybody know
19 that site?

20 MEMBER MUNN: Cincinnati Milling

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1 Machine.

2 CHAIRMAN GRIFFON: I mean, I think
3 Kathy's input was good. If there's a matrix
4 on it, then we know there's probably more than
5 one individual case.

6 DR. ULSH: What case number is
7 that, Cincinnati Milling or whatever?

8 MEMBER MUNN: 811.

9 CHAIRMAN GRIFFON: Does anybody
10 know if there's a matrix on it?

11 MS. K. BEHLING: There is.

12 CHAIRMAN GRIFFON: There is on
13 that one?

14 MS. K. BEHLING: Yes. Yes, there
15 is. There's an exposure matrix for that, and
16 we hadn't looked at any of those cases. So, I
17 thought this would give us an opportunity to
18 look at that.

19 CHAIRMAN GRIFFON: No, for
20 Cincinnati Milling Company.

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1 MS. K. BEHLING: Oh, Cincinnati?
2 I'm sorry, no. No, there's no separate
3 exposure matrix.

4 CHAIRMAN GRIFFON: There's no
5 matrix for that one?

6 MS. K. BEHLING: No.

7 CHAIRMAN GRIFFON: Which tells me
8 it's likely very few claims, right?

9 MR. HINNEFELD: Probably. There
10 are two claims from the BONUS reactor.

11 CHAIRMAN GRIFFON: Yes, so, I
12 don't know that that's --

13 MR. KATZ: That's Puerto Rico
14 you're talking about?

15 MR. HINNEFELD: No, that's the
16 BONUS reactor. Puerto Rico Nuclear Center has
17 three. I suspect --

18 CHAIRMAN GRIFFON: This person
19 worked --

20 MR. HINNEFELD: -- two of them are

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1 doubled, and there's one. It may be --
2 actually there were three originally submitted
3 for each of those two sites. There's a pulled
4 -- one case showed up as pulled on the BONUS
5 reactor. There are none showing up as pulled
6 on the Puerto Rico Nuclear Center.

7 So, somewhere around probably four
8 total claims from the combination of the two
9 sites. And the one we just asked about was
10 Cincinnati Milling?

11 CHAIRMAN GRIFFON: I'm not sure on
12 either one of those. I'm waiting. I mean we
13 can put the BONUS one down. We can discuss it
14 at the full Board, if we want to.

15 MR. HINNEFELD: There are six
16 total claims from Cincinnati Milling. I doubt
17 that there's a Site Profile.

18 CHAIRMAN GRIFFON: Right.

19 MEMBER MUNN: There's a W.R. Grace
20 claim in there.

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1 MR. HINNEFELD: Have we selected
2 anything from BONUS, Puerto Rico Nuclear
3 Center or Cincinnati Milling?

4 MEMBER MUNN: No.

5 CHAIRMAN GRIFFON: Not yet.

6 DR. ULSH: 126, I thought.

7 MR. KATZ: It's tentative. We
8 didn't -- they hadn't decided.

9 CHAIRMAN GRIFFON: Do people want
10 that? It's -- it's --

11 MR. KATZ: It's Puerto Rico.

12 DR. ULSH: Puerto Rico.

13 CHAIRMAN GRIFFON: What are the
14 particulars in that case again? Is it --

15 MR. HINNEFELD: 35 PoC, 35 percent
16 PoC. It's all-male genitalia and malignant
17 melanoma. Started work in the 1960's, worked
18 for 6.75 years.

19 CHAIRMAN GRIFFON: I don't want to
20 rule it out, but it's probably some generic

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1 overestimating approach that they had to use -

2 -

3 MR. HINNEFELD: I don't know.

4 That might be. I don't know.

5 CHAIRMAN GRIFFON: Let's put it on

6 the list. We can -- you can at least tell us

7 if it was full internal, external or whatever.

8 MR. KATZ: At the Board meeting.

9 CHAIRMAN GRIFFON: So, 126 is on.

10 What about Cincinnati Millworks?

11 MEMBER MUNN: I don't see any yet,

12 but we do -- there's a W.R. Grace on there

13 with a 35 PoC.

14 CHAIRMAN GRIFFON: Alright.

15 DR. ULSH: Just to keep track,

16 with BONUS in and with the Cincinnati Milling

17 Company not in, then --

18 MR. KATZ: Fifty-three.

19 MR. HINNEFELD: Fifty-eight.

20 MR. KATZ: I mean eight. Sorry.

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1 Two more slots.

2 CHAIRMAN GRIFFON: All right.
3 W.R. Grace, Kathy, do we have? We've done
4 that before, right?

5 MEMBER MUNN: We've done it, but
6 we don't have --

7 CHAIRMAN GRIFFON: Okay, which
8 one?

9 MEMBER MUNN: 810, 25 years.

10 CHAIRMAN GRIFFON: Sounds okay to
11 me.

12 MR. FARVER: Have you done
13 Combustion Engineering?

14 CHAIRMAN GRIFFON: I think so, but
15 -- Combustion Engineering, Kathy?

16 MS. K. BEHLING: I do not see that
17 on the list, no.

18 CHAIRMAN GRIFFON: Oh.

19 MR. FARVER: There's about 20 of
20 them.

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1 MR. KATZ: Okay.

2 CHAIRMAN GRIFFON: Let's look at
3 those. All pretty low. Yes, oral cavity and
4 pharynx. Yes, 832 looks okay.

5 MR. KATZ: 832?

6 CHAIRMAN GRIFFON: Yes.

7 MR. KATZ: And that is 60. Site
8 is what again?

9 CHAIRMAN GRIFFON: Combustion
10 Engineering.

11 DR. ULSH: That takes you to 60
12 cases.

13 CHAIRMAN GRIFFON: Yes.

14 MR. KATZ: So, I'm missing one
15 then, I guess. My last case before that was
16 736. Do you have a case after that?

17 CHAIRMAN GRIFFON: 126. Or no,
18 you got that one.

19 MR. KATZ: Yes, I got that one.

20 MEMBER MUNN: 810.

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1 MR. KATZ: And what site is that?

2 MR. HINNEFELD: W.R. Grace.

3 MR. KATZ: Okay.

4 CHAIRMAN GRIFFON: So, that brings
5 us to 60. Anybody else have any others they
6 feel strongly to add? Otherwise, we can end
7 this activity.

8 MR. KATZ: No. That's 60.

9 CHAIRMAN GRIFFON: All right, so
10 the next step is that NIOSH will take this
11 list back. First, I guess find out whether
12 any of these were adjudicated, and then take
13 the adjudicated list and get more detail to
14 bring to the Board for August. And then we'll
15 make the final selection as a full Board.

16 MR. KATZ: And if we could -- if
17 we could aim to have it at least a week before
18 the Board meeting.

19 MR. HINNEFELD: We can aim.

20 MR. KATZ: That's a start at

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1 least. Because otherwise, it'll be like
2 watching paint dry at the Board meeting, which
3 is even more difficult.

4 CHAIRMAN GRIFFON: Yes, yes.

5 MR. KATZ: Hate for it to mold
6 before it dries.

7 MEMBER MUNN: And that can happen.

8 CHAIRMAN GRIFFON: Okay, let's
9 take ten minutes to re-gear ourselves here,
10 get the other matrix up. We're going to start
11 with the 7th and 8th matrix discussions next.
12 So, if you can find those spreadsheets, then
13 pull them up. We'll take ten to stretch and
14 then start into that.

15 (Whereupon, the above-entitled
16 matter went off the record at 2:09 p.m. and
17 resumed at 2:24 p.m.)

18 MR. KATZ: Alright, we're back.

19 CHAIRMAN GRIFFON: Okay, we're
20 going to start and work on the 7th and 8th

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1 matrix items, and it's 2:30 now.
2 Realistically, I'd say we work until 4:00,
3 4:30. I don't know who has flight stuff, but
4 I know my options are either 3:00 or 7:00, I
5 think. So, are your --

6 MR. STIVER: Mine are 7:00.

7 MR. FARVER: Ten until 6:00.

8 CHAIRMAN GRIFFON: So, we'll be
9 fine. Okay, so maybe until 4:30.

10 MR. STIVER: That gives us plenty
11 of time.

12 CHAIRMAN GRIFFON: So, starting on
13 the 7th set of cases, then. We're just going
14 to push through these. And I do want to save
15 some time at the end because I think we should
16 think about schedule, and maybe as Ted
17 suggested, maybe scheduling something a little
18 sooner to -- to speed up our progress.

19 We just selected cases for the 15th
20 set, and here we are working -- and we're

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1 running into this situation as David described
2 that we're looking at findings from cases that
3 are older than what we want to be looking at,
4 or than that are important. So, we sort of
5 want to catch up.

6 Anyway, so we should save a little
7 time at the end for scheduling. But looking
8 at the 7th set of cases, I have the first
9 121.1. It still looks like it's an open item
10 for NIOSH. Is that right?

11 DR. ULSH: I don't know. In the
12 resolution column, there's a yellow
13 highlighting dated 4/18/11 for NIOSH to come
14 back.

15 CHAIRMAN GRIFFON: Yes.

16 DR. ULSH: But then in the NIOSH
17 response column, there's something from April,
18 but I'm not sure which is older and which is
19 newer.

20 CHAIRMAN GRIFFON: I think that

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1 was -- that came into that meeting. That was
2 your response coming into the meeting.

3 DR. ULSH: So, 4/18, then is an
4 additional action item after that one?

5 CHAIRMAN GRIFFON: Yes, I believe
6 so. Was 4/18 our last meeting? Yes, so 4/18
7 was from the last meeting, yes. So, that
8 would be the --

9 DR. ULSH: Well, unless Scott is
10 going to exceed my expectations here, we spent
11 all of our time getting this PER case
12 selection set up.

13 CHAIRMAN GRIFFON: Yes.

14 DR. ULSH: I don't know that we've
15 done any action on this.

16 CHAIRMAN GRIFFON: Scott, close
17 this out for us.

18 MR. SIEBERT: I hate to not exceed
19 expectations, but no. I don't have anything
20 on 121 or 122 because they're sites that I'm

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1 not working on. They're Aliquippa and Simonds
2 Steel -- or Simonds Saw and Steel.

3 CHAIRMAN GRIFFON: All right, I'm
4 just going to -- it's not to be punitive in
5 any way, but I'm going to put down 7-whatever
6 today. I'm just going to put down 7/15
7 remains a NIOSH action.

8 DR. ULSH: Yes.

9 CHAIRMAN GRIFFON: Just so we
10 don't lose track of it.

11 MR. SIEBERT: I'm going to have to
12 say I'm not sure I recall a discussion on
13 121.1. It says, NIOSH will look back at
14 procedure for doing overestimate cases versus
15 the Site Profile used in this case. The
16 discussion, the last time we were talking
17 about it, was the film badges, whether they
18 were representative for this claimant. And I
19 don't know what the path forward is on this.
20 I guess that's my question --

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1 CHAIRMAN GRIFFON: Okay.

2 MR. SIEBERT: -- is what we're
3 looking for.

4 CHAIRMAN GRIFFON: Yes, that's a
5 good question. Doug, do you have any idea?
6 I'm trying to --

7 MR. FARVER: The one -- I was
8 ahead of you. So, where were you --

9 CHAIRMAN GRIFFON: On the first
10 one, yes. What we were actually -- sometimes
11 that's the problem, if we haven't met in a
12 while and we forget what we wanted to do.
13 Made sense at the time, I think.

14 MR. FARVER: Yes, it did.

15 MR. SIEBERT: The basic background
16 on this one, if I remember correctly, was
17 whether the values that we used to assign to
18 this claimant were claimant-favorable based on
19 him being near -- in the furnace area.

20 CHAIRMAN GRIFFON: Oh, yes. This

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1 is the furnace.

2 MR. SIEBERT: And what we
3 discussed in April is the fact that the 20
4 film badges in the study that actually came up
5 with it, we looked through those and
6 determined the one that was in the general
7 area where he was, was not in the higher end
8 of the 50th percent -- the top 50 percentile,
9 but using the 50th percentile made sense in
10 this -- in this case.

11 I am not sure what the path
12 forward is for the overestimating, because it
13 appears to me that it's appropriate based on
14 the actual badging. That was Scott saying all
15 that. Sorry.

16 CHAIRMAN GRIFFON: That's okay.
17 We got it. And this wasn't -- was this an
18 overestimating case? This wasn't --

19 MR. HINNEFELD: I think it was
20 done with the Site Profile, wasn't it?

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1 CHAIRMAN GRIFFON: Yes.

2 MR. SIEBERT: It's Aliquippa. So,
3 I'm sure it was just following the matrix of
4 what's in the TBD.

5 CHAIRMAN GRIFFON: Right. Was
6 this the -- this may have been a question of
7 the policy for when you would apply the 95th
8 versus 50th. I'm stretching here for any kind
9 of --

10 MR. FARVER: That would make sense
11 given this last statement for the
12 overestimating cases.

13 CHAIRMAN GRIFFON: I mean can I
14 ask -- it sounds like we're going to have to
15 pull the transcript at this point. And if you
16 pull the transcript and it doesn't seem like
17 there's any action, then leave it at that and
18 report back to us. Is that okay, Brant?

19 DR. ULSH: Sure.

20 DR. MAURO: Scott, this is John

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1 Mauro. Aliquippa Forge, I was listening to
2 your summary of this issue. I don't actually
3 have the matrix in front of me. Is this the
4 site where they were suspending film badges?

5 MR. SIEBERT: Yes.

6 DR. MAURO: And collecting
7 external data from suspended film badges? And
8 I do recall, this maybe in a comment that I
9 raised that the -- this particular claimant
10 was in the furnace area.

11 CHAIRMAN GRIFFON: Yes, right.

12 DR. MAURO: And I think I recall
13 that the concern was that, well, now the
14 badges were suspended, and there's some
15 distribution of numbers that you would read
16 off. Now, I was listening to you, but I was
17 somewhat in the distance. Were you saying
18 that the median for this distribution seems to
19 be appropriate for this particular worker?
20 Because I think that was my concern.

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1 CHAIRMAN GRIFFON: Yes.

2 DR. MAURO: That is, you may have
3 taken the median when the worker was in an
4 area that may very well have experienced the
5 high-end exposures. So, I -- I didn't hear
6 your reasoning for why the numbers are okay.
7 I lost that.

8 MR. SIEBERT: No, you heard that
9 correctly. It's based on the fact that we
10 looked -- we went back and looked at where the
11 badges were that were used in the study to
12 create the median, and the distribution.
13 There actually was a badge that was in the --
14 in the furnace area where this individual was
15 working.

16 So, that is, you would think, a
17 representative for what that individual was
18 doing, and it was not in the upper 50th
19 percentile.

20 DR. MAURO: Oh, okay. I didn't

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1 hear that. I didn't hear that. Okay, I can
2 see why that would -- yes, I wasn't aware of
3 that.

4 MR. SIEBERT: Okay.

5 DR. MAURO: Very good. I mean, I
6 could see why that starts to move you toward
7 closure of this issue. I understand your
8 rationale that -- so, in other words, what
9 you're saying is the -- the information you
10 have indicates that, no, the furnace area was
11 not at the high end.

12 MR. SIEBERT: Correct.

13 DR. MAURO: Got you.

14 CHAIRMAN GRIFFON: Well, I'll
15 still ask NIOSH to look back. Because that
16 comment was there before when we discussed
17 this last time.

18 MR. FARVER: It's still a
19 discussion point.

20 CHAIRMAN GRIFFON: Right. So, if

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1 you could just look back and clarify what we
2 meant by that, and if you still think it
3 should be closed, then we'll close it out.
4 All right, and the next one, similar
5 situation, or do we know what -- I know you
6 haven't done any work on this. Do we need
7 clarifying on the action?

8 MEMBER MUNN: Looks like it's
9 still hanging out there.

10 CHAIRMAN GRIFFON: This is really,
11 I think, more succinct: evaluate the use of
12 TIB-70 on 6000, and then place where it was
13 first used in the case.

14 MR. STIVER: Okay, so we were
15 going over those very procedures yesterday.

16 DR. MAURO: If you could
17 conceptually describe the issue again?
18 Because we've done a lot of -- TIB-70 has gone
19 through quite a bit of discussion, and there's
20 some aspects of it that are fine, and some

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1 aspects of it -- I mean SC&A's position is
2 there's some aspects of it that are fine, and
3 there's some aspects that are problematic.

4 The problematic aspects are in the
5 process of being resolved. Jim, yesterday,
6 Neton explained some changes that are being
7 made have to do with the 1 percent per day
8 decline rate. That was the main area we had a
9 concern with. And TIB-70 is being revised to
10 change that rate of decline. This would be
11 during the residual period. Is that issue --
12 if we knew a little bit more about this issue,
13 perhaps we are close to closure on it. I
14 mean, perhaps yesterday's discussion is
15 applicability to this particular issue.

16 MEMBER MUNN: Well, it may or may
17 not, John.

18 MR. STIVER: This is for
19 estimating photon dose.

20 MEMBER MUNN: These matrix values

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1 are not assigned as a constant, but rather as
2 a log-normal distribution. The median value
3 of 0.25 millirem, and GSD of 1.5 based on the
4 rationale stated above. This approach is
5 claimant-favorable. That's the issue that's
6 being pulled for this one.

7 DR. MAURO: Okay.

8 MR. STIVER: John, this particular
9 worker started in 1948, and the residual
10 period didn't begin until 1958. So, this is a
11 pretty small portion of his overall photon
12 dose. So, I don't know the extent to that
13 would really apply that change in the
14 depletion for the residual period.

15 MEMBER MUNN: Probably not much

16 MR. STIVER: Not much.

17 MR. SIEBERT: And I believe --
18 this is Scott again. I believe this is really
19 more an overall TBD versus OTIB-70 and 6000
20 issues in this actual claim itself.

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1 MR. STIVER: That's kind of more
2 over-arching.

3 CHAIRMAN GRIFFON: Right, I agree.

4 MR. SIEBERT: So, is it asking us,
5 or NIOSH and us, to look at the claim as if we
6 were using 70 and 6000 instead of the TBD and
7 do a comparison? I guess I'm still --

8 CHAIRMAN GRIFFON: I think that's
9 what we're asking is not necessarily to do a
10 full-out comparison, but to assure that it's
11 still not going to change any decisions that -
12 - you know, decisions on compensability, I
13 guess.

14 MR. STIVER: This one hasn't been
15 addressed in the last three meetings. So, I
16 think that's --

17 MEMBER MUNN: Practically,
18 everything on 121 is in NIOSH's court.

19 CHAIRMAN GRIFFON: Scott, I think
20 that's my sense of it anyway was that it was

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1 asking for that comparison, but not
2 necessarily to the extent that you rework the
3 whole case.

4 MR. SIEBERT: But more
5 specifically to the TBD compared to those
6 methods versus this specific case?

7 DR. MAURO: Yes. I think I
8 recollect we had this discussion before,
9 right? And the comment again was, given the
10 limited data -- I guess you had a limited
11 amount of data, was there anything about TBD -
12 - OTIB-70 and TBD-6000 that might shed more
13 light on the -- whether or not the approach
14 we're taking is appropriately claimant-
15 favorable.

16 CHAIRMAN GRIFFON: Yes, that's the
17 point. And the next one in 121.3 talks about
18 TIB-70 more on the internal side, right? I
19 think that's the only ones we have
20 outstanding, is actually these first three.

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1 So, that's the main issue. These were done
2 before those were available, and are they
3 still claimant-favorable?

4 Then I'm looking at 122.1.
5 Hopefully, this is the only other case we
6 have. What's 122, John? Do you remember?

7 MR. STIVER: Simonds Saw.

8 CHAIRMAN GRIFFON: Simonds Saw.
9 So is the first one, 122.1. Says, NIOSH will
10 follow up on the validity of this approach for
11 the particular job in question. So, it seems
12 another one of these job things, like, was the
13 coworker model favorable for a furnace worker.
14 Is that -- that's clear, Scott?

15 MR. SIEBERT: I'm reading and
16 looking at --

17 CHAIRMAN GRIFFON: Yes, okay.

18 MR. SIEBERT: Once again, really
19 that's more of a general philosophy question
20 as opposed to specifically for this site or

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1 anything else.

2 CHAIRMAN GRIFFON: Well, this one,
3 though, is for this worker in question. Would
4 the new protocol make a difference? I guess
5 it's for a specific job.

6 MR. SIEBERT: Okay, I've got at
7 least some inkling.

8 CHAIRMAN GRIFFON: Yes.

9 DR. MAURO: Mark, this is John.
10 Unfortunately, I wasn't -- I probably would've
11 done a little more homework on these cases.
12 It sounds like you're dealing with a number of
13 AWE cases here. You mentioned Aliquippa Forge
14 before, now Simonds Saw.

15 I would like to say that, if I had
16 reviewed these prior to this meeting -- now I
17 got ready for the blinds, but I really didn't
18 get ready for going back to where we left off
19 last time. So, I sort of have to apologize to
20 the Subcommittee that I would've done a little

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1 homework so that I could get oriented on these
2 issues, because I'm pretty sure I know I did
3 Aliquippa, and I know I did Simonds Saw.
4 Unfortunately, I'm really not prepared to
5 discuss, let's say, NIOSH's response to some
6 of our concerns.

7 CHAIRMAN GRIFFON: No, these are
8 all your fault. That is correct.

9 DR. MAURO: I'll take full
10 responsibility.

11 DR. ULSH: Now wait. The ones
12 we've just been talking about, all of them for
13 Simonds Saw; all of them are still NIOSH
14 action items?

15 CHAIRMAN GRIFFON: Yes.

16 DR. ULSH: Okay, that's what I
17 thought.

18 CHAIRMAN GRIFFON: Even though
19 John wants to take blame.

20 DR. MAURO: Well, it sounds like

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1 you're looking for some answers from me, and I
2 don't have them, unfortunately.

3 CHAIRMAN GRIFFON: Yes.

4 MR. FARVER: I think we need to
5 look at 122.1.

6 CHAIRMAN GRIFFON: Yes. I mean,
7 at least be prepared to discuss these next
8 time, even though they're NIOSH actions. You
9 guys --

10 MR. FARVER: Yes. Oh, I
11 understand.

12 CHAIRMAN GRIFFON: Yes, yes.

13 MS. K. BEHLING: And John, you
14 should have the matrix. I emailed that to you
15 on the 12th.

16 DR. MAURO: I opened up -- I had
17 one matrix that was sent to me, information
18 that was sent by Doug, on the 12th. Let me
19 open that up. Please continue. I'll go track
20 that down.

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1 MS. K. BEHLING: The 7th and 8th.

2 CHAIRMAN GRIFFON: I'm just sort
3 of documenting that these things remain
4 actions, but I'm onto 122 -- I mean it's
5 basically 121 and 122, I believe. Finding
6 122.3 says the photon dose from uranium
7 billet/rod exposure. Again, may not be
8 bounding for this particular worker. That's
9 another question, right?

10 MR. FARVER: The validity of the
11 approach for this job in question.

12 MEMBER MUNN: I don't see anything
13 going on there since last year.

14 CHAIRMAN GRIFFON: Right.

15 MEMBER MUNN: So -- at which time
16 NIOSH had it in their lab.

17 DR. MAURO: Kathy, I got it. Yes,
18 okay. And we're looking at the 7th right now?

19 CHAIRMAN GRIFFON: Yes.

20 DR. MAURO: Okay.

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1 DR. ULSH: Page 8 of 112, finding
2 122.3.

3 CHAIRMAN GRIFFON: 122.7 now,
4 actually.

5 DR. MAURO: Okay, got it. I'm
6 catching up to you folks.

7 CHAIRMAN GRIFFON: And 122.7 is
8 the thorium inhalation.

9 MEMBER MUNN: I think that's the
10 latest date that I see.

11 CHAIRMAN GRIFFON: Yes. I'm just
12 scanning forward, are there any other cases
13 that have outstanding? It's just those two
14 John Mauro cases, isn't it?

15 DR. ULSH: It's his fault.

16 CHAIRMAN GRIFFON: Yes, that's
17 what I thought. It's his fault.

18 DR. MAURO: I didn't think you
19 guys would get this far today.

20 CHAIRMAN GRIFFON: You

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1 underestimated us.

2 DR. MAURO: I did. I did.

3 CHAIRMAN GRIFFON: Yes. Okay,
4 that's it for the 7th set, just those two
5 remaining action items for NIOSH.

6 MR. FARVER: I do have a question
7 about 127.2. No, 122.7.

8 MR. STIVER: Oh, this is a -- yes,
9 there is one set of HASL air sample, DWE-type
10 data, that were taken November 25th, 1952, and
11 that was used to model intakes for a long
12 period of time, and there was a question
13 whether the assumptions used for calculating
14 thorium inhalation --

15 MR. FARVER: Did we ever receive
16 that data to look at?

17 MR. STIVER: That particular
18 study?

19 MR. FARVER: Yes.

20 MR. STIVER: Yes, that's

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1 available. I haven't looked at it.

2 MR. FARVER: Okay. Because I mean
3 the action says, provide us the data. Provide
4 the HASL DWE data. So, I thought that was
5 done.

6 MR. STIVER: Yes, we have that
7 data.

8 MR. FARVER: Okay, so it's our
9 action.

10 CHAIRMAN GRIFFON: So, you think
11 it's an SC&A action? Which one is this?

12 MR. STIVER: I can tell you for a
13 fact that I got that data last year.

14 CHAIRMAN GRIFFON: Which item is
15 it again?

16 MR. FARVER: 122.7.

17 MR. STIVER: It's about the
18 thorium inhalation --

19 MR. FARVER: So that's ours.

20 CHAIRMAN GRIFFON: Oh, so NIOSH

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1 provided the data. So, now SC&A needs to
2 review it.

3 MR. STIVER: I don't know if it's
4 in relation to this particular case, but we do
5 have that data.

6 CHAIRMAN GRIFFON: Okay, all
7 right.

8 MR. STIVER: It's an SC&A action.
9 We have a Site Profile review underway,
10 looking at those issues.

11 CHAIRMAN GRIFFON: Alright.

12 MR. FARVER: I think that's all
13 for that set.

14 CHAIRMAN GRIFFON: Yes, that's it
15 for 7th set.

16 MR. FARVER: So, call it a day.

17 CHAIRMAN GRIFFON: I will email a
18 revised matrix just to keep us -- since we
19 lose track of these things.

20 MR. KATZ: Just for that, we're

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1 going to 6:30.

2 CHAIRMAN GRIFFON: I'm betting the
3 8th set. All right, moving on, anybody on the
4 phone with us other than Scott?

5 DR. MAURO: John is still here.

6 CHAIRMAN GRIFFON: John's still
7 here.

8 MS. K. BEHLING: I'm still here.

9 MEMBER MUNN: Kathy's still here.

10 MEMBER CLAWSON: I'm still here.

11 CHAIRMAN GRIFFON: Alright,
12 alright. Good job. It's going to get more
13 exciting now.

14 MEMBER CLAWSON: Okay, I'll hold
15 my breath.

16 CHAIRMAN GRIFFON: Okay, 149.1.

17 MEMBER MUNN: Remains a NIOSH
18 action.

19 DR. MAURO: What site is this?

20 CHAIRMAN GRIFFON: This is the 8th

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1 set -- I'm not sure what site.

2 DR. MAURO: No, I've got that in
3 front of me.

4 CHAIRMAN GRIFFON: Okay.

5 DR. MAURO: It helps me to know
6 Bridgeport Brass or whatever it is.

7 CHAIRMAN GRIFFON: Yes.

8 MR. STIVER: What is that site?

9 CHAIRMAN GRIFFON: I don't know,
10 John.

11 DR. MAURO: I can go pull my book.

12 MR. SIEBERT: Bridgeport Brass.

13 DR. MAURO: It is Bridgeport.

14 CHAIRMAN GRIFFON: Bridgeport
15 Brass, thank you.

16 DR. MAURO: Oh, I know what this
17 is.

18 CHAIRMAN GRIFFON: This remains a
19 NIOSH action item. So, SC&A provided some
20 analysis apparently.

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1 DR. MAURO: Yes.

2 MEMBER MUNN: And the review is
3 due.

4 CHAIRMAN GRIFFON: And assuming
5 the -- right, okay. Understand, I'm just
6 doing this as bookkeeping. I'm not trying to
7 -

8 DR. ULSH: I understand.

9 CHAIRMAN GRIFFON: All right,
10 next. This is 149.2.

11 MR. SIEBERT: Yes, I had written
12 down that we had closed it, but --

13 MR. FARVER: Well, you provided a
14 response back in April, but the only question
15 I have is, what's the final resolution of
16 this. Because it was pretty much a statement,
17 but it didn't say that there was any action
18 coming out of it. That was all.

19 MEMBER MUNN: Right. There's no
20 further action.

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1 CHAIRMAN GRIFFON: Well, but it
2 says they'll compare the Site Profile with
3 TBD-6000 approach, and if necessary -- I mean
4 was the Site Profile modified, or was there
5 any action?

6 DR. ULSH: Bridgeport?

7 MR. HINNEFELD: What's the site?
8 Anybody know?

9 CHAIRMAN GRIFFON: I think
10 Bridgeport.

11 MR. SIEBERT: Bridgeport Brass.

12 MR. FARVER: Bridgeport Brass.

13 DR. MAURO: Yes, I remember this
14 issue. This is the nurse where you assigned a
15 fairly high dose to a nurse from your -- your
16 --

17 CHAIRMAN GRIFFON: Site Profile.

18 DR. MAURO: The Bridgeport Brass
19 Site Profile generic analysis. I mean we
20 basically looked at it and said that with

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1 respect to this person, you would not think a
2 nurse would get doses that are the high end
3 because she would not be on the operating
4 floor. And so, we felt in this case we might
5 have overestimated that. I think that was the
6 extent of the comment.

7 MEMBER MUNN: I think so.

8 DR. ULSH: That looks about right.

9 MR. FARVER: Okay, so there was no
10 action for that one. Okay.

11 CHAIRMAN GRIFFON: So, what's the
12 bit about comparing the Site Profile with the
13 TBD-6000 approach. I mean I think we agreed
14 that there was no further action for this
15 case, but there was some sort of -- I didn't
16 want to -- I guess this is a question of
17 tracking. You know, that we don't lose track
18 of things like this that say NIOSH said they
19 would check to make sure the Site Profile was
20 consistent with TBD-6000 or whatever.

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1 MR. STIVER: I think that was the
2 whole idea of a tiered versus one-size-fits-
3 all model. I think the personal model is
4 applicable here.

5 CHAIRMAN GRIFFON: But I mean was
6 this done? Was the Site Profile compared with
7 TBD-6000 approach?

8 MR. FARVER: That I don't know.

9 MR. STIVER: I have no idea.

10 CHAIRMAN GRIFFON: Scott, do --

11 DR. MAURO: The only merit you
12 might have is that if we -- here we have an
13 AWE facility with some data. And of course,
14 when you have such data, real data for real
15 people, it's certainly useful to -- to
16 reconstruct the doses with that.

17 But at the same time, if you
18 didn't have data or data was severely limited,
19 you would resort to TBD-6000, and you find
20 yourself in a funny place. If TBD-6000 were

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1 defaulted to, or by the way that TBD received
2 very favorable review. It is a matrix,
3 generic matrix, that might have resulted in
4 assigning a person substantially higher dose
5 than the dose you were assigning given the
6 date and the limited data.

7 If you have lots of data for that
8 real person, then of course you would use it.

9 I think that goes to the -- we've seen this
10 before, where -- where you really have a
11 choice. If you have limited data -- and so,
12 it's insightful to know whether or not, if you
13 went the TBD-6000 approach, would you end up
14 assigning a substantially higher dose to this
15 worker? I think that's the --

16 CHAIRMAN GRIFFON: I think that's
17 the crux of the question.

18 DR. MAURO: That's the crux of all
19 of this, yes.

20 CHAIRMAN GRIFFON: Yes, yes. But

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1 I think it's still applicable. I mean I think
2 we still want to know that. Right, John?

3 DR. MAURO: Yes, yes.

4 MR. HINNEFELD: So, we're still on
5 the issue of tiering this -- is that what
6 we're talking about? Should this person
7 really get this high a dose?

8 MR. STIVER: Well, this particular
9 case there wasn't enough data to really do a
10 tiering. So, they assigned the highest dose
11 to everyone.

12 CHAIRMAN GRIFFON: Well, highest
13 site-specific dose from the records they had.

14 MR. STIVER: I understand, TBD-
15 6000.

16 CHAIRMAN GRIFFON: Right.

17 MR. STIVER: Comparison if that's
18 what was left.

19 MR. HINNEFELD: So, compare the
20 values that we got from using the site-

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1 specific ones here to what we can get --

2 CHAIRMAN GRIFFON: Right. Where
3 you have a limited number of site-specific
4 data, and you end up using the high end,
5 versus using the TBD-6000 approach. Which one
6 ends up being more favorable, I guess is the -
7 - or more realistic, right, in this case.

8 MR. HINNEFELD: Well, on the face
9 of it, I don't know how I feel about that
10 because we have data specific to this site.

11 CHAIRMAN GRIFFON: Yes.

12 MR. HINNEFELD: And if we said,
13 we're going to reject that data and use this
14 other broader industry data, because there's
15 more of it, it seems like we opened a whole
16 other set of criticisms if we do that.

17 DR. MAURO: Yes. Either way you
18 can't win, right?

19 MR. HINNEFELD: Yes. And so my
20 way of thinking, I think we would rather use

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1 the data from the site. It may not be
2 abundant, but we think that's probably better
3 to use than --

4 CHAIRMAN GRIFFON: That's probably
5 why you use the high end.

6 MR. HINNEFELD: Yes, because there
7 wasn't a lot. Because it wasn't very robust,
8 we used the high end, I think. I don't know
9 that we'd ever do anything any differently.

10 MEMBER MUNN: So choose the single
11 exposure model.

12 MR. HINNEFELD: And you choose the
13 single exposure model because you -- in many
14 of these claims, you don't have good
15 information about the -- about the job title
16 of the person or the job history of the person
17 because you may get the last job they held.
18 You almost always get the last job they held.
19 So, job title in these things -- we are
20 concerned about the ability to make good

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1 decisions based on that.

2 We would rather have a
3 conservative model and apply it to everyone
4 than to make judgments that are almost
5 certainly going to have some arbitrariness to
6 them.

7 CHAIRMAN GRIFFON: Well, I think
8 the thing that I don't know is how do these
9 two compare? It would be interesting just to
10 know that.

11 MR. HINNEFELD: To me, we can do
12 it as an academic exercise, but I think we
13 would --

14 CHAIRMAN GRIFFON: We would still
15 stick to your policy.

16 MR. HINNEFELD: We would like to
17 stay with the --

18 CHAIRMAN GRIFFON: Right. But if
19 it's 20 results, then if you only have 20 --
20 20 results or badge data, and you say we're

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1 going to take the high end of this, where you
2 have a more robust coworker in 6000 and it
3 ends up being more -- you know, this case is
4 the high because we're saying we might've been
5 too high of a dose.

6 MR. KATZ: I think you have to --
7 I mean I think the right thing to do is to
8 judge on its merits whether the data for the
9 site is adequate. If you come to a conclusion
10 that the data at the site is not adequate,
11 then --

12 CHAIRMAN GRIFFON: That's what I
13 don't know. I'm speaking a little without the
14 facts.

15 MR. KATZ: I know, but otherwise
16 it doesn't make sense.

17 DR. MAURO: Yes.

18 MR. STIVER: It's adequate to at
19 least provide a bounding dose.

20 CHAIRMAN GRIFFON: How big a set

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1 of data was this? Do we know?

2 MR. HINNEFELD: I don't recall.

3 CHAIRMAN GRIFFON: Do any of you
4 remember the details of Bridgeport?

5 DR. MAURO: I'd have to pull it
6 and look at it again. It's been a long time.

7 CHAIRMAN GRIFFON: See, I hate to
8 close these kinds of things out because we all
9 forgot. At the time when we said this, it
10 made sense to at least compare.

11 MR. HINNEFELD: Well, I mean
12 usually -- this is a uranium plant.

13 CHAIRMAN GRIFFON: Yes.

14 MR. HINNEFELD: And you can look
15 at a series of dosimetry data and decide, does
16 this look like a uranium plant or not. So, we
17 will compare --

18 CHAIRMAN GRIFFON: Oh, I agree
19 with you, Stu. I'm not -- I agree. You want
20 to use site-specific if you got it, and I

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1 think I wouldn't object to that as a policy
2 move for sure.

3 MR. HINNEFELD: Okay. Because as
4 an academic exercise, I think we can do that
5 comparison because it's not -- TBD-6000 isn't
6 that hard. I mean we can figure out if they
7 applied the data for TBD-6000, what dose rates
8 are we going to get, and then what did we
9 apply here.

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: I mean to me, I
12 think we're probably in a position where we
13 would rather stay with the site-specific data
14 either way.

15 CHAIRMAN GRIFFON: That'll
16 probably be where we end up. I just want to -
17 -

18 MR. HINNEFELD: Okay.

19 MEMBER MUNN: I think we had
20 almost this identical discussion.

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1 CHAIRMAN GRIFFON: I know,
2 probably last time. Yes.

3 MEMBER MUNN: And came to pretty
4 much the same conclusion, but that's when we
5 decided that we weren't going to do anymore
6 with it.

7 CHAIRMAN GRIFFON: Well, that
8 brings it back to Ted's point, which is maybe
9 a little more frequent meetings, and we can --
10 you know. It's a balance because if we have
11 more frequent meetings, but people -- if we
12 don't have any actions, then it's -- yes. So,
13 all right, 149.3. Yes, we'll follow up as in
14 149.1. This is an SC&A action, isn't it?

15 DR. MAURO: I have the hard copy
16 of the big -- the big, thick book with this
17 case, and this finding. It has to do with we
18 actually checked -- did our own calculation
19 using the data that were available, and we
20 derived our own 95th percentile from the data.

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1 And we came in a factor of -- twice -- our
2 dose about twice as high, and I guess we're
3 not too sure what the reason for that is.

4 I'm looking at it right now. That
5 was the essence of the comment. We couldn't
6 match our number. We came in higher for the
7 95th percentile.

8 CHAIRMAN GRIFFON: That was for
9 149.3?

10 DR. MAURO: Yes, we're looking at
11 3, right? The upper --

12 CHAIRMAN GRIFFON: Yes.

13 DR. MAURO: Yes, the derived --
14 yes, the words right here are -- come right
15 out of the -- I'm looking at the hard copy,
16 149.3. Right, and the -- the -- and I'm
17 looking at the text that stands behind it.

18 CHAIRMAN GRIFFON: Okay.

19 DR. MAURO: And it's basically as
20 simple as that. We actually collected the

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1 data, looked at it.

2 MR. STIVER: John, I think the
3 reasons that NIOSH's response -- or I think I
4 see why. It was just the way the calculation
5 was done. They used Monte Carlo methods to
6 combine too many period distributions. You
7 guys took the 95th percentile and multiplied
8 that by the number of periods, and you ended
9 up with a higher number by about a factor of
10 two as a result of that.

11 DR. MAURO: I didn't follow
12 conceptually the difference between the way
13 you would derive the 95h percentile and the
14 way we did it. Could you do that one more
15 time?

16 MR. STIVER: This is John Stiver.
17 I'm just kind of paraphrasing what was in the
18 NIOSH response. I think I understand the
19 difference is that what they did is they did
20 Monte Carlo sampling of all the different

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1 distributions created a new, combined
2 distribution, as opposed to just picking a
3 95th percentile and multiplying it by the
4 number of periods.

5 DR. MAURO: Oh, I see.

6 MR. STIVER: Yes.

7 DR. MAURO: Okay.

8 MR. STIVER: And that would result
9 in a lower value.

10 DR. MAURO: I would say that's an
11 interesting discussion. In other words, it's
12 funny how one could say we did the 95th
13 percentile, but one person or group would do
14 it one way. Another one would do it in a
15 different way. And this -- it sounds like the
16 approach that was used sort of buffers it a
17 bit, and brings it down.

18 And I'm not sure, quite frankly,
19 of the merits of each -- either approach,
20 which one is the one that's most appropriate

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1 for the particular problem at hand. But
2 clearly, you could see how here's an example
3 of ambiguity. You know, two different people
4 could come up with different numbers.

5 MR. STIVER: Equally, you could
6 take a smaller number for one of the
7 distributions, a higher for the next and
8 overall, you're going to come up with
9 something that's a little bit lower than this,
10 the 95th, the type of number for the badging
11 periods. It's the property of the technique,
12 the emergent property.

13 MEMBER CLAWSON: Mark, this is
14 Brad. John or whoever, why -- why would they
15 do that? Is it just -- is that up to the dose
16 reconstructor?

17 MR. HINNEFELD: Well, it wasn't up
18 to the dose reconstructor because this was
19 done in the Site Profile document.

20 MEMBER CLAWSON: Right.

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1 MR. HINNEFELD: So, this was done,
2 and then this instruction was given to all
3 dose reconstructors.

4 DR. MAURO: Right. Exactly right.

5 MR. HINNEFELD: So, it's not up to
6 the dose reconstructor, but it would -- see if
7 I've got this conceptually, John or John or
8 somebody or Mark can correct me if I'm wrong.

9 But conceptually, it sounds like on our part,
10 we took each -- we took the two weeks. We
11 have two-week periods.

12 So, you've got a series of two-
13 week periods where you've got essentially a
14 dataset for each two-week period.

15 MR. STIVER: A distribution for
16 each of those two-week periods.

17 MR. HINNEFELD: Yes, a
18 distribution for each of those two-week
19 periods, and we said we're going to make this
20 one broad distribution average and do 95th

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1 percentile of this whole distribution.

2 Yesterday, we said we're going to take the --
3 well, I'm not quite sure what they did. Is it
4 the 95th percentile?

5 MR. STIVER: The combined dataset,
6 lump it all together.

7 MR. HINNEFELD: Lump it all
8 together.

9 MR. STIVER: Take the 95th
10 percentile.

11 CHAIRMAN GRIFFON: Instead of just
12 sampling from all of them, right?

13 MR. STIVER: We're going to
14 combine this -- multiplying the 95th
15 percentile for the combined dataset by the
16 applicable number in a two-week period. So,
17 you sum all the data together to --

18 CHAIRMAN GRIFFON: All the data --

19 MR. STIVER: -- multiply it by the
20 number of periods. What you guys did was you

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1 took the Monte Carlo running with one number
2 from each of those distributions, added them
3 up. That's one data point in your output
4 distribution. You went back to that 10,000
5 times or whatever. You generate your output
6 distribution -- 95th percentile of that.

7 MR. HINNEFELD: Oh, well, I don't
8 have a conception. I have a clue.

9 DR. MAURO: I think there's more
10 to the story here. It has to do with
11 correlated and uncorrelated data and how it is
12 processed.

13 MR. STIVER: Yes, for this one I
14 assume there's no correlation for the data.

15 DR. MAURO: Right. The statement
16 in the Bridgeport Brass Site Profile was that
17 you collected the data and came up with an
18 uncorrelated 95th percentile, which means that
19 you were assuming that each reading, two-week
20 reading, is independent of each other reading.

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1 And of course if you do it in an uncorrelated
2 way, it's going to result in a higher estimate
3 of the 95h percentile.

4 So, I remember Harry Chmelynski
5 did it this way. He actually matched -- in
6 fact, he actually ran your numbers correlated
7 and uncorrelated. It's coming back. And he
8 matched your numbers, if you assumed they were
9 correlated.

10 But in your write-up, you claim
11 that no, we didn't -- the claim that you did
12 the analysis in uncorrelated, and as a result,
13 we say, well, if you did it uncorrelated, we
14 would come in with a factor of two higher.

15 CHAIRMAN GRIFFON: Right.

16 DR. MAURO: Yes, I recall this
17 now.

18 MR. STIVER: John, we talked about
19 this yesterday in the Procedures meeting.
20 This is the exact same discussion we had.

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1 DR. MAURO: Yes.

2 MR. STIVER: It all gets back to
3 whether a person who has a high probability of
4 getting a dose by virtue of the job they're
5 in, and staying in that job when everybody
6 moves around the plant.

7 Everybody is just kind of randomly
8 moving around the plant, then the uncorrelated
9 distribution would be applicable, but if you
10 got people who are in particularly hot jobs
11 continuously, then the correlation would
12 apply. And that's really what it came down
13 to: whether it was correlated or not.

14 So, I guess to really get back to
15 it, Bridgeport Brass, was that a site where
16 people changed jobs frequently, or was the
17 situation where you had --

18 MR. HINNEFELD: Do we know?

19 MR. STIVER: Do we know? Because
20 if you have skilled labor that stayed in type

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1 of position --

2 MR. FARVER: This will come up
3 again when we talk about Attachment 1
4 findings.

5 MR. HINNEFELD: Is this Bridgeport
6 Brass Havens Laboratory, or Bridgeport Brass
7 in Adrian, Michigan?

8 MR. FARVER: Bridgeport Brass
9 Havens.

10 MR. HINNEFELD: Okay, laboratory.
11 So, I don't know. If it's in Michigan, I
12 think there was extrusion there.

13 CHAIRMAN GRIFFON: Yes.

14 MR. HINNEFELD: But I don't think
15 Havens was.

16 CHAIRMAN GRIFFON: Well, at least
17 that defines the issue a little better. I
18 mean I understand.

19 MR. HINNEFELD: Yes, that one I
20 understand the issue. I need somebody smarter

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1 than me to help figure this out. I don't -- I
2 know Dave Allen might know more about this.

3 CHAIRMAN GRIFFON: If you don't
4 know work --

5 MR. HINNEFELD: If you don't
6 really know --

7 CHAIRMAN GRIFFON: Still
8 uncorrelated, right. Right, the higher end.

9 MR. HINNEFELD: I mean just
10 speaking here, but there may be basis for what
11 we --

12 CHAIRMAN GRIFFON: I'll say it
13 remains a NIOSH action. Go ahead, Brant.

14 DR. ULSH: Yes, the status of
15 149.1 is we put out our analysis. SC&A did a
16 different analysis.

17 CHAIRMAN GRIFFON: Right.

18 DR. ULSH: It's now back in our
19 court to say there's quite a difference or
20 it's not a problem.

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1 MR. STIVER: Just one last thing.

2 In our interviews at Simonds Saw last year,
3 most of the workers indicated that they pretty
4 much stuck with a job. They didn't move
5 around. It took some skill to learn --

6 MR. HINNEFELD: Yes.

7 CHAIRMAN GRIFFON: That's for
8 Simonds?

9 MR. STIVER: Yes, at least for
10 Simonds.

11 MEMBER MUNN: Some do, some don't.

12 CHAIRMAN GRIFFON: Yes, right.

13 MEMBER MUNN: Others they
14 specifically say we moved around --

15 CHAIRMAN GRIFFON: Now, 149.4, I
16 think I can take the highlighting off this.
17 It says it's transferred to Wanda's
18 Procedures.

19 MEMBER MUNN: Yes.

20 CHAIRMAN GRIFFON: Just as long as

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1 it doesn't get lost.

2 MEMBER MUNN: We lose as many
3 things as we can, of course.

4 CHAIRMAN GRIFFON: And I'll add in
5 the words, Wanda's Procedures.

6 MEMBER MUNN: Make it very clear.

7 MR. KATZ: So, what number is
8 that?

9 CHAIRMAN GRIFFON: Make blame
10 clear.

11 MEMBER MUNN: Yes, please do.

12 CHAIRMAN GRIFFON: 149.4.

13 MR. KATZ: 149.4.

14 CHAIRMAN GRIFFON: And it's a
15 global issue under TIB-17 it says.

16 DR. MAURO: Yes, yes.

17 MR. KATZ: So, do we already have
18 that on our agenda, John or Wanda? If not,
19 I'll put it there so that we don't lose it.

20 DR. MAURO: Let's make sure. Yes,

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1 this is -- we discussed this many times, and I
2 think we've agreed with -- I know Jim was at
3 one meeting, where we talked about particles
4 depositing, and that this is a recurring
5 discussion, you know. And I think that in
6 concept, I remember one meeting where we
7 agreed in concept when this might be a
8 problem.

9 But we're waiting -- we're really
10 waiting on the global response. How are --
11 and what is NIOSH's position related to, when
12 do you factor in the possibility that a person
13 may have had a particulate deposition on the
14 skin, face, whatever? And you should factor
15 that into the skin dose. I think we're still
16 uncertain on that.

17 MR. KATZ: Yes, I think you're
18 waiting for Godot there, maybe.

19 MR. HINNEFELD: We'll see where we
20 can go with it.

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1 CHAIRMAN GRIFFON: Yes.

2 MR. HINNEFELD: This is -- I think
3 it's a uranium plant, or a uranium laboratory.

4 So, you're not dealing with any hot
5 particles, but by and large uranium plants
6 early on didn't have exit monitoring either.
7 So, it was handled like a metal. And so, very
8 many uranium plants had opportunity for
9 essentially unidentified skin contaminations
10 or exposures. That's how this one falls.

11 MEMBER MUNN: At this point, I can
12 only say Procedures has had no communication
13 from Godot.

14 (Laughter.)

15 CHAIRMAN GRIFFON: That's why we
16 gave it to Procedures.

17 MEMBER MUNN: Thank you so much.

18 CHAIRMAN GRIFFON: It's in good
19 hands.

20 MEMBER MUNN: Yes.

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1 CHAIRMAN GRIFFON: All right.

2 MR. KATZ: I'm going to follow up
3 with Tim a little bit on this, though. See if
4 -- what the path forward is.

5 CHAIRMAN GRIFFON: All right,
6 149.5. This is the tiered coworker model
7 rather than the one-size-fits-all 95th.

8 DR. MAURO: Yes, I have this in
9 front of me, the full write-up. This has to
10 do with the fact that this person was the
11 nurse, as I mentioned earlier. And so, we
12 have like a mixed bag here. In some cases, we
13 feel that it looks like the method
14 overestimates the dose. In other places, we
15 feel that it underestimates.

16 For example, the very fact that
17 this claimant is a nurse, this is what this
18 last comment has to do. We've just
19 questioning whether it goes back to what we
20 said before, whether you would use the upper-

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1 bound 95th percentile for a person that was
2 not on the operating floor.

3 So, we're a little bit
4 schizophrenic here, but I think it's still
5 legitimate to raise the question. You know,
6 if you are going to use the 95th percentile,
7 we have these questions regarding correlation
8 and uncorrelated.

9 The question then next tier is,
10 well, would you -- what do you do about a
11 nurse who probably wasn't on the operating
12 floor?

13 MR. HINNEFELD: I'd have the same
14 comments I made earlier.

15 CHAIRMAN GRIFFON: Right.

16 MR. HINNEFELD: I really, really
17 hate to make too strong a judgement based upon
18 job title because we rarely know specifically
19 what a particular job involves, and in terms
20 of where their presence is at the workplace.

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1 DR. MAURO: Right.

2 MR. HINNEFELD: And it's not
3 always that often that you have good
4 information about jobs anyway.

5 DR. MAURO: Well, you could see
6 the dilemma we ran into in the blind dose
7 reconstruction. You recall on the first case
8 where we were doing the -- I think it was
9 Portsmouth, where we -- where, when we ran it,
10 we followed -- we used the 50th percentile for
11 the coworker model, and not -- as opposed to
12 the 95th percentile.

13 And I used -- when I did my hand
14 calc, I used 95th percentile. So, there seems
15 to be a bit of ambiguity regarding -- I think
16 you have a procedure that talks about when the
17 -- for external now, when do you use the upper
18 end, and when do you use the geometric mean,
19 and when do you use ambient. There's a
20 procedure out there that talks about that.

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1 Here's a place where you could see
2 different dose reconstructors may very well
3 make different choices. In this case, the
4 decision was made to go with the 95th
5 percentile. I could very well see another
6 person saying, you know, this person's job
7 description is such that I would feel more
8 comfortable going with either ambient or
9 geometric mean.

10 So, here's a -- I think a perfect
11 example of where you could run into a little
12 bit of inconsistency on how things are being
13 applied.

14 MR. SIEBERT: Well, John, this is
15 Scott. I just want to point out this is a
16 one-size-fits-all TBD, so the dose
17 reconstructor would not be making that
18 decision.

19 DR. MAURO: Oh, is that right?
20 So, if we look at Bridgeport Brass -- I didn't

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1 know that you picked -- that's across the
2 board 95th percentile, as opposed to giving a
3 choice. Because very often, you do provide a
4 matrix where you leave a little bit of
5 judgment whether you want to use the upper
6 bound or the median.

7 You know, I actually have it here.

8 Let me take a look at that.

9 MR. STIVER: I think it's TIB-14,
10 just to give you some guidance to that.

11 DR. MAURO: Is that? Okay.

12 CHAIRMAN GRIFFON: Well, that was
13 the initial question here, right? In that
14 finding, NIOSH will further consider the
15 applicability of a tiered versus coworker
16 model versus one-size-fits-all 95th. You're
17 of a position that you think it's applicable
18 in this case that you should use the 95th
19 percentile. Because you don't know the jobs
20 enough.

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1 MR. STIVER: We don't know the
2 granularity to really look at people.

3 MR. HINNEFELD: I mean by and
4 large, with AWE you have more or less specific
5 information, and you do what the -- I think
6 for -- for an AWE, since you tend to fall into
7 this lack of information, or not -- less
8 specific information, our tendency is to write
9 one-size-fits-all models, and to make them
10 conservative so that we won't underestimate
11 anyone.

12 Of the selecting 95th, you know,
13 the criteria for 95th, 50th, and ambient
14 coworker description for -- we have a DOE
15 site. You have a sufficient amount of overall
16 data that you build coworker models to apply
17 to people who you don't have monitor records
18 for. In that case, there are a set of
19 criteria, which may in fact introduce
20 ambiguity, which is a completely different

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1 discussion than where we are, about when do
2 you pick 95 and when do you pick 50th.

3 Those are coworker instructions by
4 and large. As a general rule, our AWE sites
5 are one-size-fits-all. Let's just not
6 underestimate anybody, and let's not make too
7 fine a distinction on places where we don't
8 have very good information.

9 CHAIRMAN GRIFFON: Yes. That last
10 one that we were discussing where you had
11 badges hanging, I forget what site it was.
12 Aliquippa?

13 MR. KATZ: Yes.

14 CHAIRMAN GRIFFON: I mean I'm
15 guessing that there wasn't a whole lot of
16 monitoring data there. You had some hanging
17 badge data.

18 MR. HINNEFELD: I think, yes, that
19 was a one-size-fits-all model.

20 CHAIRMAN GRIFFON: No, no.

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1 MR. HINNEFELD: Now, was it done
2 correctly or not?

3 CHAIRMAN GRIFFON: In that case,
4 you assigned 50th, though. That was the whole
5 issue there.

6 MR. HINNEFELD: Yes. I think
7 there's a legitimate question. Should we be
8 using 50th or not in a situation where we have
9 that amount of data? And in fact --

10 CHAIRMAN GRIFFON: If it was
11 always the 95th, then --

12 MR. HINNEFELD: Yes, yes. And I
13 have to go back and check because I'm not
14 exactly sure which dose component we were
15 talking about. I mean there was some
16 discussion. We've had a fair amount of
17 discussion about dose from deposition of
18 suspended airborne, you know, uranium
19 deposition.

20 CHAIRMAN GRIFFON: Right.

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1 MR. HINNEFELD: And that's --
2 we've given you -- at least in one of these,
3 we had a lot of discussion to that, which is a
4 pretty small fraction of the dose someone is
5 going to receive in a uranium plant because
6 it's going to be direct radiation.

7 And so, I think we need to take a
8 more careful look at what the actual findings
9 were, and what component of dose is being
10 described before we draw too many -- too many
11 judgments here.

12 CHAIRMAN GRIFFON: Yes.

13 DR. MAURO: Just to confirm, I did
14 check the Bridgeport Brass, and you're
15 correct, Scott. It's a one-size-fits-all 95th
16 percentile. And so, the option was not
17 granted here for a judgment to be made.

18 MEMBER MUNN: Okay.

19 So, unless you're prepared to say
20 yes, we're all in agreement, and let's close

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1 it, you've just gotten a preview of our
2 written response.

3 CHAIRMAN GRIFFON: Right. I think
4 we leave it as a preview though, because I
5 think you have -- I want you guys to reflect
6 on the consistency of that one versus the
7 previous one that we just discussed.
8 Hopefully, if we reconvene soon enough, we'll
9 all have these things fresh in our minds.

10 MR. KATZ: Can we take a comfort
11 break?

12 CHAIRMAN GRIFFON: No, we're
13 plunging right though. Yes, of course. All
14 right, we're -- let's see. That does wrap up
15 149. So, does that wrap up 149?

16 MEMBER MUNN: On to 150.

17 CHAIRMAN GRIFFON: Yes. I just
18 want to make sure. Yes, so, okay, let's take
19 a ten-minute break, and we'll start back at
20 1:50 -- I mean with case 150.

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1 (Whereupon, the above-entitled
2 matter went off the record at 3:17 p.m. and
3 resumed at 3:29 p.m.)

4 CHAIRMAN GRIFFON: We're on the
5 home stretch, everyone on the phone. John,
6 you there?

7 DR. MAURO: Yes, I am, and I had a
8 chance to read the case. So, I can help out a
9 little bit.

10 CHAIRMAN GRIFFON: Awesome. And
11 Scott --

12 MEMBER CLAWSON: That'll help,
13 John.

14 CHAIRMAN GRIFFON: I hear Brad.
15 Is Scott on there too?

16 MR. SIEBERT: I'm here.

17 CHAIRMAN GRIFFON: Okay, great.
18 We're on number 150.1, and this one is an SC&A
19 action.

20 MR. FARVER: Yes, basically where

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1 we left this is NIOSH will provide a response
2 based on the review. They provided a
3 response. It says, TBD is currently being
4 revised to incorporate assessment documented
5 in Special Exposure Cohort Evaluation Report.
6 The revised methodology combines the intake
7 estimate at the start of the residual period,
8 based on the average of the general area air
9 samples collected during the operational
10 period.

11 And then they give the resulting
12 intakes. So, basically, they're going to
13 modify the TBD. Is that pretty accurate, to
14 modify the TBD?

15 MR. HINNEFELD: For which one?

16 DR. MAURO: Simonds Saw.

17 CHAIRMAN GRIFFON: Simonds Saw.

18 MR. HINNEFELD: Yes, I mean
19 there's -- we'll have to because there was an
20 addition of a Class in February. And so,

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1 there will have to be a modification for --

2 MR. FARVER: Okay.

3 MR. HINNEFELD: -- the Site
4 Profile.

5 MR. FARVER: Reviewed it. Have no
6 concerns with that response. So, we can close
7 that one.

8 CHAIRMAN GRIFFON: Okay. I knew
9 we'd close one. 151.1, this is another one of
10 those effects of things done prior to TBD-
11 6000.

12 DR. MAURO: Right. This is a case
13 where OTIB-4 was used. If you remember a long
14 time ago, that was a bounding approach, and to
15 -- for AWE facilities, which were only used
16 for the sake, purpose of denial, which in fact
17 is what I believe has happened here. Yes.

18 So, the outcome here is that they
19 used OTIB-4, and they denied. There really is
20 no concern. And some of the comments in here

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1 I'm looking at have long been resolved in
2 other venues. So, I mean we can go over each
3 one if you'd like, but --

4 CHAIRMAN GRIFFON: Well, John,
5 from the last response though, what does that
6 mean? NIOSH will look up -- look at the
7 response in TBD-6000 Work Group, and determine
8 the effect on this case and review potential
9 effects on DRs done prior to TBD-6000
10 implementation. What does that mean? See the
11 response in 11/8?

12 DR. MAURO: Yes. I am looking at
13 the report, and just correlating the comments
14 with the write-up.

15 CHAIRMAN GRIFFON: Yes.

16 DR. MAURO: Yes, this is OTIB-4.
17 Give me one second. Oh, okay, all right.
18 We're going back a ways here. There was a
19 time during the residual period where we were
20 concerned that, with two -- two issues. One,

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1 that the way in which NIOSH modeled the
2 buildup of radioactivity on surfaces. This is
3 the operation and on surfaces was -- was
4 fundamentally flawed.

5 We were wrong. It's good. This
6 deposition velocity approach, where you assume
7 that the airborne particulates, whatever those
8 levels are, are settling at the -- at this
9 settling velocity 0.00075. I think it's per
10 day. I'm not sure of the -- per second, per
11 second. And it accumulates for a year.

12 We were concerned that that
13 approach doesn't work, but it turns out after
14 reviewing the Adley Report, we agreed that
15 that approach is okay.

16 So, this comment that we have, the
17 first comment at 151.1, really goes toward, we
18 were concerned at the time that that approach
19 doesn't work well. We now believe it does.
20 That is in estimating to build up on surfaces.

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1 So, I mean --

2 CHAIRMAN GRIFFON: Well, in that
3 first comment though, SC&A was suggesting that
4 they use the Adley paper, right?

5 DR. MAURO: Right. And it was in
6 fact the Adley paper that convinced us that
7 approach works.

8 CHAIRMAN GRIFFON: Right.

9 DR. MAURO: In other words, I
10 don't know when --

11 CHAIRMAN GRIFFON: I think the
12 other question is asking, does TBD-6000 use
13 the Adley -- I mean is that model --

14 DR. MAURO: That was how TBD-6000
15 was confirmed. In other words, when we
16 reviewed TBD-6000, we expressed this concern
17 about how you are predicting what might be on
18 surfaces. And one of our suggestions at the
19 time was why don't you look at the Adley
20 paper, where they actually measured the

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1 deposition accumulation rate at a Hanford
2 metalworks facility, and to see if in fact the
3 approach with -- where at this facility,
4 Hanford facility, where they measured the
5 airborne concentrations of dust, they measured
6 the amount on surfaces. They measured the
7 rate in which it accumulated.

8 David Allen wrote a White Paper,
9 to say, listen, I think we're okay with the
10 TBD-6000 approach. This is one of our
11 criticisms of TBD-6000. And he came back and
12 did these calculations, and wrote a White
13 Paper, and it turns out in fact that's true.
14 That is, the Adley paper in fact confirms this
15 generic approach that NIOSH is using, which we
16 found originally suspect: the deposition rate,
17 for a variety of reasons. But the data from
18 Adley show that no, that approach works.

19 CHAIRMAN GRIFFON: Yes, I
20 understand all that. At least that is your

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1 position on the --

2 DR. MAURO: Well, that was our
3 position, yes.

4 CHAIRMAN GRIFFON: -- Adley model.

5 But the part I don't understand is I thought
6 we were asking here for NIOSH to consider
7 cases done before TBD-6000, which would use
8 the Adley approach. There was another method
9 used. Now, am I misunderstanding that?

10 In other words, is the approach
11 used prior to the incorporation of TBD-6000
12 and the Adley model, was that sufficient? Was
13 that claimant-favorable enough for -- or isn't
14 that what we're asking?

15 DR. MAURO: Yes, and this is --
16 and that's OTIB-4.

17 CHAIRMAN GRIFFON: Right.

18 DR. MAURO: Right, and --

19 CHAIRMAN GRIFFON: So, the case
20 was done --

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1 DR. MAURO: -- that was even more
2 conservative.

3 CHAIRMAN GRIFFON: So, that was
4 more conservative than TBD-6000?

5 DR. MAURO: Yes.

6 CHAIRMAN GRIFFON: So, you found
7 that out. So, in that case, I think we can
8 close this item.

9 DR. MAURO: Yes.

10 CHAIRMAN GRIFFON: Okay, okay.
11 That's what I didn't understand. All right.

12 DR. ULSH: 151.1, is that --

13 CHAIRMAN GRIFFON: I mean that was
14 a NIOSH action item, but it sounds like SC&A's
15 done. John is satisfied with it.

16 DR. MAURO: Yes.

17 CHAIRMAN GRIFFON: Yes, okay.

18 DR. MAURO: Yes, OTIB-4 is
19 bounding. The only time we had concern in the
20 past with OTIB-4 was that it was used as a --

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1 and they ended up compensating people. And as
2 you recall, that was a concern.

3 CHAIRMAN GRIFFON: Yes, yes.

4 DR. MAURO: And that's the reason
5 for TBD-6000, to deal with that problem. So,
6 this actual case must go back a long way, the
7 very fact that they used OTIB-4.

8 CHAIRMAN GRIFFON: Yes.

9 DR. MAURO: Very conservative. In
10 effect, conceptually visualize that you have a
11 site where you're working with uranium.
12 They're assuming the default dust-loading
13 throughout the facility is 100 MAC, which is
14 up there. And the materials settling out,
15 that would be the airborne inhalation
16 exposure; right off the bat, that's certainly
17 bounding.

18 I can't imagine many sites having
19 higher than that chronically. Then the
20 activity on surfaces -- I know you guys want

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1 to go home, right? Then the activity on
2 surfaces building up from the settling. Our
3 concern originally was, well, that approach to
4 modeling the buildup on surfaces is not --
5 even though you started with a very high
6 concentration in the air, the way in which you
7 predicted what fell out may not be bounding,
8 but it was demonstrated. Yes, that approach
9 does bound it.

10 So, in this instance, where they
11 use OTIB-4, it certainly is a bounding
12 approach, and still, they came up with
13 Probability of Causation that I believe was 38
14 percent. Let me see what the number is. Yes,
15 38 percent.

16 So, yes, I can't see having a
17 problem here.

18 CHAIRMAN GRIFFON: We close. And
19 thank you for filling that radio silence,
20 John. I was just typing up everything you

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1 said. We weren't looking for more
2 explanation. But thank you.

3 MEMBER CLAWSON: Mark?

4 CHAIRMAN GRIFFON: Yes?

5 MEMBER CLAWSON: Mark, this is
6 Brad. So, I kind of got lost in this. Well,
7 this has actually started out as OTIB-4?

8 CHAIRMAN GRIFFON: Right.

9 MEMBER CLAWSON: Before they came
10 up with OTIB-6?

11 CHAIRMAN GRIFFON: TBD-6000.

12 DR. MAURO: TBD-6000.

13 MEMBER CLAWSON: TBD-6000. So,
14 this one -- this one is NIOSH's -- or SC&A is
15 saying that this -- this was done right?

16 CHAIRMAN GRIFFON: This earlier
17 approach was more claimant-favorable.

18 MEMBER CLAWSON: Okay.

19 CHAIRMAN GRIFFON: And the only
20 place they got into trouble with this was

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1 where they actually compensated some claims
2 using TIB-4.

3 DR. MAURO: Right.

4 CHAIRMAN GRIFFON: But for this
5 purpose, it was higher numbers than TBD-6000
6 would've generated, and therefore, we have no
7 further concern with this. So, I'm saying it
8 can be closed.

9 MEMBER CLAWSON: Okay, I was -- I
10 kind of got --

11 CHAIRMAN GRIFFON: I was a little
12 lost, too, Brad.

13 MEMBER CLAWSON: Okay. I'll go
14 back to quiet then.

15 (Laughter.)

16 CHAIRMAN GRIFFON: Okay, 151.2.

17 MEMBER MUNN: I was trying to make
18 a great effort to get on my database to see
19 where we were with TIB-9, and whether we had
20 in fact received a White Paper. But I have

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1 done something naughty, and security has told
2 me that I can't get back on. So, again, until
3 I've logged back off and logged back on again.

4

5 So, I'm not going to do that. I
6 will just tell you that I can't respond to you
7 with respect to the White Paper. Does NIOSH
8 know if that White Paper has been provided? I
9 don't even know.

10 MR. HINNEFELD: I don't recall,
11 but let me see what I can find here.

12 CHAIRMAN GRIFFON: I am officially
13 removing this from our list though, but I'd
14 like Ted to capture it as a -- it says,
15 Procedures Subcommittee.

16 MEMBER MUNN: Yes. This is in our
17 ballpark.

18 CHAIRMAN GRIFFON: Let me just --
19 so Ted can capture it. 151.2, and it's about
20 NIOSH developing a White Paper regarding the

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1 approach for ingestion, TIB-9. This will be
2 reviewed as part of TIB-9 review.

3 MEMBER MUNN: Yes.

4 CHAIRMAN GRIFFON: Procedures
5 Subcommittee.

6 DR. MAURO: This has been resolved
7 in principle at one of the meetings.

8 MEMBER MUNN: I thought that it
9 had been, and I had the funny feeling that we
10 might even have the White Paper, which is why
11 I was trying to get back into our database.

12 DR. MAURO: I don't think -- in
13 essence, it's quite simple. We were concerned
14 that the ingestion pathway is effectively,
15 when all is said and done, after all the
16 numbers are crunched, the ingestion pathway
17 presumes that the daily ingestion rate is 0.5
18 milligrams per day, on that order.

19 We felt, from looking at the
20 literature, that 50 to 100 milligrams per day

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1 is more appropriate. Jim and I had quite a
2 discussion on this at the Procedures
3 Subcommittee on TIB-9, and it was agreed that
4 if the site was generally cleaned up and that
5 you're not kicking around a lot of uranium on
6 the ground, the 0.5 milligram approach per day
7 is probably okay.

8 But if you're at one of these old
9 facilities, where the -- the layers of uranium
10 oxide dust on the surface is actually -- you
11 could see it, then -- then the 50 or something
12 substantially higher than 0.5 milligrams per
13 day is probably appropriate.

14 So, that's how we converged on
15 this. So, in this particular case, I believe
16 the exposure was during the residual period,
17 and the question that's before us is, where
18 does this play, this facility and it's status,
19 fall in that continuum?

20 Is it more like a site in the

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1 residual period that has been cleaned up, and
2 therefore there's not that much residual
3 uranium? Then the OTIB-9 approach works. But
4 if it's still a filthy place with lots of
5 residual uranium on surfaces, then that 0.5
6 doesn't work anymore. It's no longer
7 bounding. That's the point. Although keep in
8 mind though that the ingestion dose never
9 really contributes much to dose anyway. It's
10 almost like a tempest in a teapot.

11 MEMBER MUNN: Yes. It was clearly
12 a site-specific issue in this particular case,
13 and I just simply can't remember whether we
14 have a White Paper on it, or -- we did come to
15 a meeting of the minds.

16 DR. MAURO: Yes, but I don't think
17 there was any white -- a White Paper on this
18 matter ever issued.

19 MEMBER MUNN: Oh, I'll have to
20 verify that.

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1 MR. HINNEFELD: Wanda, I found --
2 well, I found OTIB-9 estimation of ingestion
3 intakes in the database, but there are no
4 findings associated with them.

5 MR. STIVER: It sounds from John's
6 discussion, it resolved in a Work Group in
7 principle, but never made it to a White Paper.

8 MEMBER MUNN: Yes, I think so, and
9 we may need to just put something in the
10 database, Procedures database.

11 DR. MAURO: Stu, that's my
12 recollection of the discussion, and how we
13 sort of achieve closure in principle. But
14 right now, TIB-9 just goes to the -- this
15 multiplied 0.2 -- 0.2 times the air
16 concentration gives you the daily ingestion
17 rate, which effectively converts to a very
18 low, 0.5, on that order, milligram per day.

19 I believe Jim agreed that if it
20 was a really filthy place, that number is

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1 probably too low. And I think that's how we
2 left it, and we really haven't gone much
3 further. As it applies to this case, it's
4 really irrelevant.

5 MEMBER MUNN: Yes. I'm thinking,
6 can be closed for this purpose.

7 CHAIRMAN GRIFFON: This purpose.
8 It's being transferred to your group, yes.
9 I'm taking the yellow off of it.

10 MEMBER MUNN: Thank you.

11 CHAIRMAN GRIFFON: I have 152.4.
12 Looks like a fairly simple -- I was being very
13 kind when I -- the way I wrote this, NIOSH
14 will consider adding. I think this was the
15 idea it wasn't clear to the reader that you
16 had incorporated both photon and tritium dose
17 when you reported it out in the DR report. Am
18 I understanding that correctly?

19 MR. FARVER: Well, this is where
20 they report their tritium doses with their

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1 external doses.

2 CHAIRMAN GRIFFON: Right.

3 MR. FARVER: And there is a method
4 that NIOSH uses to separate out the tritium
5 doses from the -- from the photon doses. But
6 that method really isn't documented anywhere.
7 So, that kind of is the concern.

8 CHAIRMAN GRIFFON: So, it's
9 further than just reporting it out in the DR
10 report. He says, method is not documented.
11 That's a different thing. I thought it just
12 was that it wasn't clear in the DR report that
13 --

14 MR. FARVER: Go back to the case.

15 DR. ULSH: Looks like Site
16 Profile. Would we consider adding an
17 explanation in the Site Profile document.

18 CHAIRMAN GRIFFON: Yes, Site
19 Profile document. Yes, okay. I was --
20 summary finding says the DR report does not

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1 account for all the -- okay. All right, so,
2 you're probably right, Doug. It's not clearly
3 explained in the Site Profile.

4 MR. SIEBERT: Actually, this is
5 Scott, I do want to point out yes, we're
6 considering that for putting in the Site
7 Profile. However, the DR guidance document,
8 which as you know we're putting into every
9 claim file as we do it, there is a comment in
10 there about tritium doses typically included
11 in both the deep and shallow doses recorded.

12 So, there is information available
13 for the dose reconstructors discussing this.
14 It's just not in the TBD yet.

15 CHAIRMAN GRIFFON: And the --

16 DR. ULSH: Well, given that this
17 is probably going to remain an open item until
18 the TBD is changed, right, Scott, do you have
19 an estimate on -- I mean is there an estimate
20 on when it going to be incorporated into the

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1 TBD?

2 MR. SIEBERT: That's -- I don't
3 know off the top of my head what's going on
4 with the SRS TBD.

5 MR. KATZ: Given what Scott just
6 said, do you really need to keep it open?

7 CHAIRMAN GRIFFON: Well, I don't -
8 -

9 MR. HINNEFELD: If it's a dose
10 reconstruction -- if the Savannah River dose
11 reconstruction instructions or guidance for
12 dose reconstruction for SRS, if that includes
13 it and that's being placed in the files now
14 going forward, I mean is it really needed?
15 You can keep this open for the Site Profile.

16 CHAIRMAN GRIFFON: I don't think
17 we need it. The question is making sure the
18 comments don't get lost. It's easy when it's
19 transferred to Procedures.

20 MR. FARVER: You're saying place

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1 in the case files now. Is it going to be in
2 the files that we get to review?

3 MR. HINNEFELD: Depends on how old
4 the case is for review.

5 MR. FARVER: That's kind of what I
6 mean, because we're going to come up with the
7 same issue the next time, where we can't match
8 the HPAREH dose with the tritium doses that
9 are given in the DR.

10 MR. SIEBERT: Well, that won't --

11 MR. FARVER: Well, it comes down
12 to whether --

13 MR. SIEBERT: If it's in this
14 guidance document or whether it's in the TBD,
15 that's not going to change.

16 MR. FARVER: No, no. I'm saying
17 if these guidance documents aren't included in
18 the files that we received to review, then
19 we're not going to know that it's there.
20 We're going to write it up again.

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1 MR. SIEBERT: I agree, and we've
2 run into that numerous times.

3 MR. FARVER: Okay.

4 MR. SIEBERT: And we just close it
5 again.

6 DR. ULSH: Yes, that's a separate
7 issue.

8 MR. FARVER: Okay.

9 CHAIRMAN GRIFFON: Right. But how
10 do we keep track of the -- it's an action item
11 for the SRS Work Group, I guess. Ah, forget
12 that one. Can't it go to Wanda's group
13 somehow?

14 MR. FARVER: Is the guidance
15 document that contains this discussion about
16 how to separate out the tritium doses, is that
17 available on the O: drive somewhere that we
18 can see?

19 MR. SIEBERT: Sure. It's in the
20 tools folder for Savannah River tools.

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1 MR. FARVER: Okay.

2 CHAIRMAN GRIFFON: But how to -- I
3 mean you said the guidance document gives an
4 explanation if the doses are together. It
5 doesn't really explain how to separate them
6 out, does it?

7 MR. SIEBERT: It doesn't
8 specifically tell you step-by-step how to
9 separate, no.

10 CHAIRMAN GRIFFON: Right. So, the
11 method that Doug is talking about, the method
12 is still not there, right?

13 MR. STIVER: Is the method in the
14 tool that's on the O: drive, then?

15 CHAIRMAN GRIFFON: There's no
16 method at all. Scott, that was to you.

17 MR. STIVER: Scott, is the method
18 that you're referring to again in the tool
19 that's on the O: drive?

20 MR. SIEBERT: Oh, no. It would

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1 not be tied into a tool. It's something the
2 dose reconstructor would have to do by
3 comparison. I mean, the information that they
4 have to look at is already in the guidance
5 document. The specific line-by-line -- you
6 know, it's basically just a step of, if
7 there's tritium dose, you need to compare it
8 to the -- compare it to the HPAREH dose and
9 subtract it out. It's not much of a method,
10 really.

11 MR. STIVER: Okay, okay. So, it's
12 clear to the reconstructor what they have to
13 do.

14 CHAIRMAN GRIFFON: All right, I
15 mean I have no problem closing this out. I
16 just don't want the comment to be lost from
17 the Site Profile comment. You know, the fact
18 that --

19 MR. HINNEFELD: I've got a
20 question for Scott. Where would these --

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1 where is this instruction found? I mean this
2 is available to dose reconstructors. I
3 understand that. But where do they look to
4 find it?

5 MR. SIEBERT: The dose
6 reconstructors, the guidance documents, are in
7 the tools folders, along with the tools for a
8 site. So, for Savannah River, the Savannah
9 River DR guidance document is in the same
10 folder as the Savannah River tools.

11 MR. HINNEFELD: Okay, so that
12 folder is -- that's something the dose
13 reconstructor looks at from your side?

14 MR. SIEBERT: Correct, and then a
15 copy of the latest version of that is also
16 submitted along with the claim for SC&A or --
17 or whoever is --

18 MR. HINNEFELD: Yes, there's a
19 claim file now. I mean that was started a
20 couple years ago.

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1 MR. SIEBERT: Right.

2 MR. HINNEFELD: But I mean where -
3 - I'm still trying to figure out where does
4 your dose reconstructor look, physically?
5 What file or what drive does he go to find
6 that tools thing?

7 MR. SIEBERT: That's on our O:
8 drive on our server, where we keep all the DR
9 tools.

10 MR. HINNEFELD: That's on your
11 server. So, that's not necessarily replicated
12 over to our side, or do you know?

13 MR. SIEBERT: That I can't tell
14 you. I don't know how they keep you guys up
15 to date on our tools.

16 MR. HINNEFELD: Okay, I'm afraid I
17 don't know either, but there's probably people
18 who do know on our side. I'm just not one of
19 them.

20 CHAIRMAN GRIFFON: Well, let's --

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1 MR. HINNEFELD: Well, I think it
2 means they're being provided now. So,
3 anything we look at now that has been done in
4 the last couple years, it'll be there in the
5 folder.

6 MEMBER CLAWSON: Will it? This is
7 Brad. Will it be in the folder then?

8 MR. HINNEFELD: Yes.

9 MEMBER CLAWSON: I guess we're
10 coming back to the same thing we were talking
11 about earlier in the morning, about being able
12 to reconstruct these doses when the -- there's
13 got to be a method that everybody is all on
14 the same, and what I hear from Scott, and
15 correct me if I'm wrong, is that it will now
16 be in the folder, and it'll show how this has
17 been done, or is this just something that the
18 dose reconstructor does?

19 MR. SIEBERT: The DR directions
20 are -- or guidance documents are put into the

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1 folders. So, every file for the last couple
2 years has had this included. I'm also looking
3 through, and I don't have the page, but the
4 present TBD -- and Mutty's helping me out with
5 this. So, Mutty, correct me if I'm wrong.
6 The correct version of the SRS TBD actually
7 does have a discussion on the resolution of
8 photon, neutron and tritium dose.

9 So, this actually may have already
10 been put into the TBD to give it the
11 information.

12 CHAIRMAN GRIFFON: Well, if that's
13 the case, then that answers -- that resolves
14 my issue.

15 MR. SIEBERT: Yes. Hard copy
16 records do separate; recorded whole body dose;
17 photon, neutron, tritium. It's section
18 E.4.1.1. There is a discussion on the fact
19 that the hard copy records do go into the
20 separation, whereas HPAREH does not.

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1 So, that's section E.4.1.1. It's
2 called: "Resolution of Photon, Neutron and
3 Tritium Dose." And I think that actually,
4 Doug, that would close this out because it's
5 in there.

6 MEMBER CLAWSON: Okay, that helps
7 me out. I was a little bit confused there. I
8 kind of got the impression that they just --
9 they just knew to do it, but there was no real
10 direction there, and I just wanted to make
11 sure we had some clear direction that we were
12 going.

13 MR. SIEBERT: Right. I can
14 understand that. Let me see. I'm still
15 getting more information. That's page 243 of
16 the TBD, the present version of the TBD.

17 CHAIRMAN GRIFFON: You want to
18 take a quick glance at that, and we'll move on
19 if one of you guys wants to look at it. I
20 think we can close it out.

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1 MS. K. BEHLING: This is Kathy
2 Behling.

3 CHAIRMAN GRIFFON: Kathy, go
4 ahead.

5 MS. K. BEHLING: Yes, I was just
6 hopefully going to answer Stu's question
7 regarding the DR tools. I believe on the O-
8 drive, under -- there is a claims folder.
9 Under the claims folder, there is a DR folder,
10 and then under that particular folder is the
11 DR tools. Then it lists the general tools,
12 and all the site-specific tools.

13 I'm just not sure how often that
14 is updated, but the last time I checked, it
15 seemed to be quite up-to-date. So, that's
16 where the DR tools reside on the O: drive.

17 MR. SIEBERT: Yes, and we do
18 update that as we find technical issues, or if
19 we get something into the TBD, we'll usually
20 pull it out of the guidance document so that

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1 it's not replicated.

2 MR. STIVER: Looks like they were
3 updated about two years ago, 2009, from what
4 I'm seeing here.

5 CHAIRMAN GRIFFON: I'm going to
6 close.

7 MR. SIEBERT: The one I'm looking
8 at right now was updated earlier this year.

9 MR. STIVER: Okay, maybe. I'm
10 looking at our side of it.

11 CHAIRMAN GRIFFON: To get back to
12 152.4, I've right now written it for
13 7/15/2011, "NIOSH included in Site Profile
14 document section E.4.1.1, and no further
15 action is required." So, if SC&A is okay with
16 that, I think we should just do a quick check.

17 We don't need to carry this over to another
18 meeting, if you can just look at that
19 paragraph.

20 MR. FARVER: Fine.

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1 CHAIRMAN GRIFFON: Okay. And I'll
2 move ahead, but we'll come back if you have
3 heartburn with that. All right, 152.6?

4 MS. K. BEHLING: I believe maybe I
5 can address this finding. This is that
6 finding that we've identified over and over
7 again, with regard to the way NIOSH approaches
8 missed fission product doses, and they have
9 what they call a radionuclide chooser program,
10 that selects the radionuclides at the highest
11 dose to the issue of concern.

12 And what we've always questioned
13 is what about the -- the dose component from
14 all of the other radionuclides? And what
15 NIOSH has done, and they've provided us all of
16 the back-up data for this, is they have taken
17 the actual whole-body count results for this
18 particular case it was a little bit of cesium
19 in the whole-body count results. And they
20 plugged that value into IMBA and calculated

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1 internal -- or an intake, inhalation intake,
2 and then they took that inhalation intake, and
3 they went to their OTIB-54 workbook, and the
4 OTIB-54 is fission and activation product
5 assignment for internal dose related to gross
6 beta and gross gamma analysis.

7 And they calculated the dose using
8 this OTIB-54 methodology, and I did look at
9 all of the data they provided. Clearly, it
10 shows that by selecting the radionuclide
11 chooser, that highest radionuclide alone, your
12 dose is higher than when you go to this more
13 refined approach in OTIB-54, and you select
14 all the various radionuclides that you might
15 expect to see in that environment.

16 And so, I do agree with -- with
17 their approach of using these OTIB -- or the
18 radionuclides chooser as a more conservative
19 approach. And I might also add --

20 CHAIRMAN GRIFFON: Well, they

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1 didn't -- let me just be clear, Kathy. They
2 didn't really choose the chooser; that was
3 just an approach that was used before they
4 developed 54, correct?

5 MS. K. BEHLING: Correct, correct.

6 CHAIRMAN GRIFFON: So, now the
7 new, more refined approach results in lower
8 doses. Did you evaluate across the board, or
9 was it just for this case?

10 MS. K. BEHLING: Yes, that's what
11 I -- yes, I was about to say. At least in
12 this particular set, there are two additional
13 findings, two additional cases, case 153, our
14 next case, and finding 153.8.

15 Same situation. They did the same
16 type in their -- they used actually MDA for
17 cesium-137 because there was no real values
18 assigned in the whole body count, and still
19 based on that approach, the dose was actually
20 higher using the chooser.

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1 The same thing with, let's see
2 here, case 155, finding 155.7. Exactly the
3 same type of approach used, and I verified the
4 IMBA runs and all of the OTIB-54 runs, and I
5 do agree with NIOSH on the --

6 CHAIRMAN GRIFFON: What was that
7 last one? 153.8 I got.

8 MS. K. BEHLING: Yes, 153.8 and
9 155.7.

10 CHAIRMAN GRIFFON: Okay, then I'll
11 go ahead and also close those out as no
12 further action when we get there, if we get
13 that far. Or even if we don't, I'll go ahead
14 and clear those out. But let me just -- the
15 only other question I have, this is a little
16 bit of a theoretical question, but have we
17 reviewed OTIB-54?

18 MEMBER MUNN: Oh, my yes.

19 MR. KATZ: Yes.

20 CHAIRMAN GRIFFON: But I mean have

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1 we closed it out? I don't know where we
2 stand.

3 MEMBER MUNN: Almost all of 54 is
4 closed out.

5 CHAIRMAN GRIFFON: Because we're
6 assuming that 54 is correct in this analysis.

7 You know you're saying the chooser was always
8 more favorable than OTIB-54, but in closing
9 these out, we're saying -- we're acting as if
10 OTIB-54 is the truth.

11 DR. MAURO: Mark, OTIB-54, is that
12 the one dealing with beta-gamma emitters in
13 urine associated with reactors?

14 MS. K. BEHLING: Yes.

15 CHAIRMAN GRIFFON: Yes.

16 DR. MAURO: Okay, we reviewed
17 that. And where we came out was there was a
18 set of four or five different conversions that
19 if you know the gross beta-gamma in the urine,
20 you can make certain assumption what the --

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1 the question is what is the isotopic mix on
2 those radionuclides? And they differ, if
3 would differ, depending on the kind of reactor
4 you use.

5 Joyce Lipsztein reviewed that.
6 She found favorably on the mix associated with
7 each of the different types of reactors.
8 There was one issue, however, that remains I
9 believe still unresolved. And when you don't
10 have information on the type of reactor you're
11 working with, or it's a -- it's not captured
12 by the four categories.

13 There's a default mix that's
14 recommended to be used that we had a problem
15 with because we felt that mix that was
16 selected was not bounding. So, we were almost
17 home on OTIB-54, but not quite.

18 Now, within the context of this
19 particular case, if they use OTIB-54, one of
20 the mixes that we already reviewed and

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1 approved, then I think this issue goes away.
2 But if they use the generic mix, that's sort
3 of like a default when you don't have
4 information, we still have an issue with that.

5 DR. ULSH: And on that topic of
6 the generic mix, I can tell you that I've been
7 in discussions with ORAU just over the last
8 week or so. We're preparing further analysis
9 on that.

10 CHAIRMAN GRIFFON: Kathy, do you
11 know if these three that you mentioned were
12 generic, 152, 153 and 155? Would they --

13 MR. HINNEFELD: Well, they weren't
14 done with OTIB-54. They were done with the
15 chooser.

16 CHAIRMAN GRIFFON: Right, but were
17 they a situation where you have one reactor
18 though, or were they a situation where they
19 would have -- you wouldn't know? What sites
20 were they?

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1 MR. HINNEFELD: Savannah River.

2 CHAIRMAN GRIFFON: All Savannah
3 River? So, you could have --

4 MR. HINNEFELD: Well, other
5 reactors were Savannah River were production
6 reactor --

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: I think those were
9 all pretty -

10 CHAIRMAN GRIFFON: Similar mixes.

11 MR. HINNEFELD: I forget what the
12 mix -- I forget what the things were on the --
13 what the possibilities were.

14 CHAIRMAN GRIFFON: Yes.

15 MR. HINNEFELD: Savannah River
16 reactors, at least from my experience, were
17 draining fuel with the uranium target.

18 CHAIRMAN GRIFFON: Right.

19 MR. HINNEFELD: And then you would
20 have -- essentially, the target was one in the

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1 same, and then there were a number of reactors
2 that were bad reactors. I forget. I forget
3 how the categories were in OTIB-54.

4 CHAIRMAN GRIFFON: I mean my sense
5 is we're okay on all these three. I just want
6 to be --

7 MR. HINNEFELD: Well, and
8 realistically, I mean there's the OTIB-54
9 issues that are not resolved yet. I mean
10 there will be a resolution process and then
11 follow up from that resolution, which is sort
12 of independent of these three specific
13 findings. I mean this sort of kicks these
14 three findings, any kind of consideration,
15 into OTIB-54 procedures, in a Procedures
16 Committee.

17 Then any remedy of any changes
18 that happen from OTIB-54 from that process --

19 CHAIRMAN GRIFFON: Would go back.

20 MR. HINNEFELD: -- would catch

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1 these cases as well.

2 MEMBER MUNN: Yes. They've been
3 worked very heavily in the past few months.

4 CHAIRMAN GRIFFON: Yes, I think
5 we're okay with closing them out for this --
6 purpose of our Subcommittee's work. So, I'm
7 just moving ahead and getting those other ones
8 that Kathy mentioned. Give me a minute.

9 Okay, and we're back to -- where
10 are we now? That was 152. So, 153.1. Does
11 that catch us up here? This says NIOSH and
12 SC&A to both further review.

13 MR. FARVER: Okay.

14 DR. ULSH: Wait, Mark.

15 CHAIRMAN GRIFFON: Yes?

16 DR. ULSH: Before we move onto
17 that one, I noticed the tab 152 observation.
18 There's nothing in the response column. Is
19 there anything that --

20 CHAIRMAN GRIFFON: I think we

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1 decided that we weren't even going to --

2 DR. ULSH: Close it then?

3 CHAIRMAN GRIFFON: I mean that
4 might be a symbol on the answer. Was it
5 reevaluated for Super S, or?

6 MR. SIEBERT: Give me a second
7 here.

8 CHAIRMAN GRIFFON: It says it was,
9 yes. I filled that column in saying it was
10 reevaluated, assuming Scott confirms that. Do
11 you want to look ahead to 153 while he's
12 looking that up?

13 MR. SIEBERT: That is correct. It
14 has been reevaluated and still non comp.

15 CHAIRMAN GRIFFON: Okay, 153.1
16 then.

17 MR. FARVER: Okay.

18 CHAIRMAN GRIFFON: Doug?

19 MR. FARVER: The finding was
20 basically that the 1982 less than 30 keV

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1 photon dose was omitted. So, we looked at it,
2 and yes, it was omitted. It should've been a
3 very small dose, and from the response, I
4 gather that they're not sure why it was
5 assigned all 30 to 250 keV, and why the small
6 portion was not separated out for that year.

7 CHAIRMAN GRIFFON: Right. But
8 they say that -- yes, that's all in the
9 response. The part I didn't understand was
10 NIOSH and SC&A will review further.

11 MR. FARVER: I only had a chance
12 to look at this one.

13 CHAIRMAN GRIFFON: Okay.

14 MR. FARVER: Now, I look at it,
15 but still the question is why did it happen?
16 Do you want me to cut and paste here, or
17 something? Don't know. I mean I --

18 CHAIRMAN GRIFFON: That's okay.
19 That may get in their aggregate analysis of
20 like QAQC progress.

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1 MR. FARVER: Okay.

2 CHAIRMAN GRIFFON: So, there's no
3 further action then, right, that you can see?

4 MR. FARVER: I don't know what
5 else to do.

6 CHAIRMAN GRIFFON: Right. I mean
7 NIOSH agreed -- agrees the error occurred, and
8 I guess we could've --

9 MR. HINNEFELD: 153.1, is that the
10 number?

11 CHAIRMAN GRIFFON: Yes. All
12 right, no further action on that one.

13 MR. SIEBERT: Okay, so it is
14 closed?

15 CHAIRMAN GRIFFON: Yes.

16 MR. SIEBERT: Well, then I'm not
17 going to say a word.

18 CHAIRMAN GRIFFON: We should've
19 asked you first.

20 MR. SIEBERT: I agree whole-

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1 heartedly.

2 MR. FARVER: And similarly for
3 153.2.

4 CHAIRMAN GRIFFON: Okay.

5 MR. FARVER: For some reason, that
6 year it just all got assigned into 100 percent
7 30 to 250 keV.

8 CHAIRMAN GRIFFON: See that Brant?
9 We're closing all kinds of things. Okay,
10 let's continue while we're on a roll. About
11 15 more minutes for those on the phone. Then
12 we're done. I think we all have late flights,
13 but I think by this time of day, we've kind of
14 had enough of this. All right, 153.6?

15 MR. FARVER: Okay.

16 CHAIRMAN GRIFFON: NIOSH will
17 review SC&A response. SC&A will review NIOSH
18 response. Well, they provided something on
19 415, and I don't think you had time.

20 MR. FARVER: Right. I did have a

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1 chance to look at it. You know, I still stand
2 by our original finding that if you look at
3 the criteria of OTIB-7, that based on the work
4 location, classification and the laborer, and
5 the fact that he had measured photon dose, it
6 does meet the criteria in OTIB-7, and he
7 should have had neutron dose.

8 And the only other thing I can say
9 is if there was an issue about where the
10 employee worked and the CATI report provided
11 coworker information, and it was even stated
12 in there this CATI report was provided by the
13 spouse. She heard from one of his coworkers,
14 Mr. X, that her husband had worked a lot in
15 radiation areas, and Mr. X may be able to
16 expand on the work history.

17 So, I mean the information was in
18 there. If there as any kind of question, you
19 could've always called up the coworker.

20 CHAIRMAN GRIFFON: Mr. X, yes.

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1 MR. FARVER: So, anyway, I still
2 stand by that that they should have assigned
3 neutron dose.

4 MR. SIEBERT: Well, this is Scott.
5 From our write up, I mean we still stand that
6 it meets the requirements. If it doesn't
7 assign, we shouldn't assign neutrons. So,
8 we're kind of at an impasse here.

9 CHAIRMAN GRIFFON: You judge
10 meeting the requirements by work location that
11 you had? I don't have your response in front
12 of me. I apologize.

13 MR. SIEBERT: Based on the fact
14 that there's nothing to suggest routine
15 assignments to a B line facility, which is
16 where neutrons we would assume would be
17 occurring.

18 CHAIRMAN GRIFFON: I'm sorry.
19 You're fading a little, Scott. I can't hear.

20 MR. SIEBERT: I'm sorry. OTIB-7,

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1 the facility specific direction for separation
2 facilities has the following criteria,
3 "Routine, more frequent than annual plutonium,
4 bioassay monitoring and relatively high
5 shallow dose to deep dose greater than two,
6 and relatively little enriched uranium
7 bioassay indicate that work on the FB or HB
8 line."

9 That's pulled directly out of TIB-
10 7, and what we looked at is there is no
11 routing plutonium bioassay. The shallow dose,
12 the deep dose ratio is not high, and there's
13 no enriched uranium bioassay. So, it does not
14 meet the requirements in OTIB-7 of assuming
15 neutrons for that separation facility.

16 MR. FARVER: But for the dose
17 reconstruction for those years, you assume
18 he's an FB line. For the time periods we're
19 questioning, '78 to '82, you go back to the --
20 your original dose reconstruction, and for '78

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1 to '82, he's in 212 FB line.

2 MR. HINNEFELD: And that's -- what
3 part of the dose reconstruction says that?

4 MR. FARVER: Oh, that's in the
5 table where you list the areas and the time
6 periods.

7 MR. HINNEFELD: Okay, for purposes
8 of the photon split?

9 MR. FARVER: Yes, that table where
10 you split the photons and the neutrons.

11 MR. SIEBERT: Oh, I'm sorry. Yes,
12 I agree with you whole-heartedly. The
13 original assessment put him in FB line.
14 However, if you read in our most recent
15 response, it says clearly, "A more accurate
16 assessment of work locations would not have
17 resulted in assignment of the 221 FB line
18 facility."

19 Based on what I just said, the
20 fact that there's not routine plutonium, high

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1 shallow to deep dose ratio, and relatively low
2 enriched uranium.

3 MR. FARVER: So, you changed the
4 work areas?

5 MR. SIEBERT: Correct.

6 CHAIRMAN GRIFFON: Was the initial
7 reasoning because it was more claimant
8 favorable, or why didn't you initially use FB
9 line? Or is that not clear?

10 MR. SIEBERT: I mean I can't get
11 into the dose reconstructor's head right now.

12 CHAIRMAN GRIFFON: Right.

13 MR. SIEBERT: Presumably because
14 it was claimant favorable at that time.

15 CHAIRMAN GRIFFON: Yes.

16 MEMBER MUNN: And more accurate.

17 CHAIRMAN GRIFFON: I mean I could
18 certainly see how Doug got to where he got.
19 You know? Yes.

20 DR. ULSH: If I understand the

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1 language in the DR, where it says he worked in
2 FB line, then you should assign neutrons.

3 CHAIRMAN GRIFFON: Right.

4 DR. ULSH: And so, it's
5 understandable to make that comment. That's
6 reasonable. Given that the comment was made,
7 and we have gone into more detail and
8 determined that, "Okay, we used this to make a
9 favorable split on photon energy, but if we
10 look more closely at it, here's the criteria
11 for OTIB-7 or whatever it was. Then we don't
12 think neutrons should've been assigned."

13 MR. FARVER: What bothers me about
14 this is, and this is supposed to be a best
15 estimate, and this goes back to the question I
16 asked last time at ORAU offices; how do we
17 really know it's a best estimate? Just
18 because the report says doesn't mean it really
19 is. Because in this case, it clearly wasn't
20 the best estimate if your work location can

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1 change if you want to add dose.

2 CHAIRMAN GRIFFON: Right.

3 MR. SIEBERT: Well, another thing
4 to keep in mind is OTIB-7 did not exist at the
5 time this dose reconstruction was done.

6 MR. FARVER: Okay, but even your
7 DR says that you're assigning -- you're
8 assuming he's in this work location for this
9 time period.

10 CHAIRMAN GRIFFON: So, if you
11 assume that, the best estimate should've said
12 -- should've included neutrons. Yes.

13 MR. FARVER: Correct, if those are
14 your assumptions that you're going by. Right?

15 CHAIRMAN GRIFFON: I mean I would
16 say if they got into the time they should've
17 included neutrons, then maybe you can argue,
18 Scott, that further looking at it now, TIB-7
19 would've changed their -- you know, we
20 wouldn't have done it that way. That's the

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1 way I would kind of look at it.

2 MR. FARVER: This just seems to
3 keep reoccurring.

4 CHAIRMAN GRIFFON: Yes.

5 MR. FARVER: The work location
6 changes. When we talk -- when we bring up
7 issues here, we'll go back and look closer,
8 and say, "Well, no, it really wasn't that work
9 location. It's this work location."

10 CHAIRMAN GRIFFON: Right.

11 MR. FARVER: And I don't know.

12 MEMBER MUNN: Well, I read this as
13 saying that his job classification, his job
14 type, could result in intermittent exposure,
15 but not a chronic exposure. That would have
16 been assumed -- I'm just reading the response
17 there.

18 CHAIRMAN GRIFFON: Well, that's
19 SC&A's. The 80's work location was the FB
20 line, and it had intermittent -- jobsite

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1 could've had intermittent exposure.

2 MEMBER MUNN: But it's
3 intermediate.

4 CHAIRMAN GRIFFON: Intermittent,
5 yes.

6 MEMBER MUNN: Yes, I'm sorry.
7 Intermittent. That in itself seems to affect
8 -- should affect the way the DR was done, it
9 would seem to me. But in either case, we've
10 got to --

11 CHAIRMAN GRIFFON: Yes, I don't
12 think that has as much bearing on the fact of
13 location.

14 DR. ULSH: In light of the fact
15 that OTIB-7 didn't exist at the time of the
16 dose reconstructions, any discussion of what
17 OTIB tells you to do -- or OTIB-7 tells you to
18 do, is kind of irrelevant.

19 CHAIRMAN GRIFFON: After the fact.

20 DR. ULSH: Yes. The question is

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1 at the time the dose reconstruction was done,
2 did we do the dose reconstruction in
3 accordance with the guidance in place at the
4 time?

5 CHAIRMAN GRIFFON: Right.

6 DR. ULSH: That I think is maybe
7 the remaining idea.

8 CHAIRMAN GRIFFON: Yes. Would you
9 say a real borderline PoC case?

10 DR. ULSH: That's a best estimate.

11 CHAIRMAN GRIFFON: Yes, it's a
12 best estimate, but I don't know. Forty-five -
13 -

14 MR. SIEBERT: Forty-five percent.

15 CHAIRMAN GRIFFON: Yes.

16 DR. ULSH: And our response,
17 Scott, references OTIB-7.

18 MR. SIEBERT: Yes, as does SC&A's
19 response to our response.

20 DR. ULSH: Okay, well, maybe we

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1 need to take another look at our response, not
2 referring to OTIB-7, and determine whether or
3 not the guidance in place --

4 MR. SIEBERT: Yes, guidance at the
5 time. Yes, okay.

6 MR. FARVER: What we were looking
7 at was section 3.1, non-routine workers.

8 CHAIRMAN GRIFFON: Yes, but that's
9 OTIB-7.

10 MR. FARVER: Out of OTIB-7.

11 CHAIRMAN GRIFFON: Yes, but I
12 think it's kind of irrelevant. This wasn't
13 even in place.

14 MR. FARVER: I don't know. I'd
15 have to look and see the earlier -- and I
16 don't see --

17 MR. SIEBERT: Well, I'm going to
18 tend to say that the guidance at the time was
19 probably somewhat ambiguous, which is why
20 OTIB-7 was written.

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1 MR. FARVER: Okay. Well, that
2 still brings us back to you're assuming the
3 work location is one place, but you didn't
4 assign a neutron dose from that work location.

5 CHAIRMAN GRIFFON: Right. I mean
6 it does seem a little funny that you would
7 come back in your review of an -- in this
8 audit, and say that, "Well, we're changing the
9 work location. That's how we're answering
10 this question." I mean --

11 MR. HINNEFELD: This dose
12 reconstruction is three iterations. It was
13 determined Super S for --

14 CHAIRMAN GRIFFON: Super S.

15 MR. HINNEFELD: And it's coming
16 back to at least one other.

17 CHAIRMAN GRIFFON: Right. This is
18 a reoccurring issue with the neutron. The
19 work location stuff with neutrons seems to
20 come up fairly frequently, yes.

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1 MR. SIEBERT: This is work
2 location specific.

3 CHAIRMAN GRIFFON: Yes.

4 DR. ULSH: Well, given where we
5 are now, I would propose that maybe Scott and
6 I will sit down and talk this one over soon,
7 and get back to you with a response.

8 CHAIRMAN GRIFFON: Yes, yes.

9 DR. ULSH: May very well say,
10 "We're going to stick with what we've said and
11 here's why." But I don't think we should be
12 referencing OTIB-7 if that didn't exist.
13 Maybe that'll change our response. Maybe it
14 won't. I don't know.

15 MR. FARVER: All right, I think in
16 our initial write up, we even acknowledged
17 that it didn't exist, but the logic should
18 still somewhat apply because if it -- like
19 Scott says, if it wasn't in a TBD how to do
20 this, it may have been formulating in the

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1 guidance document somewhere, where it was
2 officially produced.

3 MR. STIVER: What do you say about
4 going back and doing some research on what was
5 available?

6 MR. FARVER: But the logic should
7 still apply.

8 CHAIRMAN GRIFFON: Right, right.

9 MR. STIVER: If you knew there was
10 a potential neutron exposure on that
11 particular work location, then claimant
12 favorable, the benefit of the doubt in
13 favorable of the client.

14 CHAIRMAN GRIFFON: Right. That's
15 fine. Yes, I think you might come back saying
16 that it might -- I mean I'm not trying to put
17 words in your mouth, but NIOSH may determine
18 that yes, a mistake was made here, and since
19 then we've developed TIB-7, which would've
20 changed our decision on work location.

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1 DR. ULSH: Possibly.

2 CHAIRMAN GRIFFON: Yes, something
3 like that. All right, we'll --

4 MR. HINNEFELD: It sounds to me as
5 if it would've. It sounds to me that it puts
6 this guy away from HB line. It's in TIB-7.
7 TIB-7 was not available at the time this dose
8 reconstruction was done, so the person chose a
9 conservative photon dose and put it in the
10 dose reconstruction -- in the table, and said,
11 "Well, we'll just say he worked there."

12 When it was reworked, guidance had
13 come out that said -- OTIB-7 had come out that
14 said, "If people fail to meet these criteria,
15 they weren't in HB lines."

16 CHAIRMAN GRIFFON: No, I think I -
17 -

18 MR. HINNEFELD: "Well, I can't use
19 HB line in that photon mix."

20 CHAIRMAN GRIFFON: Because it

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1 makes for an inconsistent -- yes.

2 MR. HINNEFELD: It sounds to me
3 like that's what happened. Because this first
4 was done in 2005, and the first rework was
5 done in 2009, so PER. I'm thinking since this
6 was in the 8th set, this had to be the 2005
7 version that was reviewed. I don't know for
8 sure.

9 CHAIRMAN GRIFFON: Not sure, yes.

10 MR. SIEBERT: That is correct.

11 MR. FARVER: During that time
12 period.

13 CHAIRMAN GRIFFON: That is
14 correct. Scott said yes.

15 MR. HINNEFELD: So, I mean you've
16 got the description of what happened, and the
17 fact is that what we know today about
18 locations and putting people -- and what's in
19 OTIB-7, that being a fact, this thing isn't
20 going to change today. It's done today in

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1 accordance of what we feel like we know today.

2 CHAIRMAN GRIFFON: Yes, but the
3 point goes back to any claims prior to TIB-7
4 may have this kind of issue.

5 MR. HINNEFELD: Yes.

6 CHAIRMAN GRIFFON: And would they
7 all be captured on PER reviews or whatever? I
8 mean that's --

9 MR. HINNEFELD: Well, that's a
10 good question.

11 CHAIRMAN GRIFFON: I mean I think
12 that's why we're examining it. Under Super S.
13 They probably wouldn't have caught this.

14 MR. HINNEFELD: Yes.

15 CHAIRMAN GRIFFON: We don't want
16 to assume, for reasons we all know about.
17 That's the point. I think Brant has the right
18 approach. If you can go back and talk it
19 through with Scott.

20 DR. ULSH: Yes. I don't know what

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1 the outcome of that --

2 CHAIRMAN GRIFFON: Yes, yes. I'm
3 not saying you're going to change your
4 position.

5 MEMBER CLAWSON: So, Mark, this is
6 Brad. I'm on the phone --

7 CHAIRMAN GRIFFON: Don't even ask,
8 Brad.

9 MEMBER CLAWSON: -- and I've
10 caught bits and pieces of it. So, what's our
11 path forward? I heard a little bit of Brant
12 and Scott's path forward on it.

13 CHAIRMAN GRIFFON: Yes. Brant is
14 going to -- Brant is going to work with Scott
15 and reassess with the protocols in place at
16 the time for this case. At the time when we
17 reviewed this case, I should say, because it's
18 gone through changes since then.

19 MEMBER CLAWSON: Okay, so this
20 item will still remain --

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1 CHAIRMAN GRIFFON: This remains a
2 NIOSH action, yes.

3 MEMBER CLAWSON: Okay.

4 CHAIRMAN GRIFFON: Hold on, I'm
5 just documenting this. Let's skip through.
6 We might be through with 153. 153.7, we still
7 have something here. Okay, let's do that one,
8 and then I think we're almost done here, and
9 we can wrap up after this.

10 MR. FARVER: Same issue, neutron
11 dose.

12 CHAIRMAN GRIFFON: Oh, it is?
13 Okay.

14 MR. FARVER: Yes, same thing.

15 CHAIRMAN GRIFFON: Let me just
16 document that.

17 DR. ULSH: Wait, is that one that
18 Scott and I need to talk to in the same
19 context?

20 MR. STIVER: It's the same issue.

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1 DR. ULSH: Okay.

2 CHAIRMAN GRIFFON: Because this is
3 the missed neutron versus the -- yes. 153.8 I
4 closed out based on Kathy's earlier
5 explanation. I think we should probably stand
6 now at this point, 154. I did -- I did make a
7 change on 155.7, if you're documenting stuff
8 for the one that Kathy raised, the chooser
9 versus TIB-54, and I closed that out. But
10 we'll pick back up on -- I'll leave off at
11 154, since it's late in the day.

12 Before we close out the meeting
13 though, let's -- maybe we can talk about
14 schedule a little. Now, I don't know. I mean
15 it's mid-July. It seems obvious that we're
16 not going to get progress before the Board
17 meeting in August. But perhaps --

18 MR. KATZ: We could pick a date.

19 CHAIRMAN GRIFFON: The end of
20 September? The end of September?

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1 MR. KATZ: Yes, I would go ahead
2 and pick a date in part because --

3 CHAIRMAN GRIFFON: And I would ask
4 that not only as far as these actions, I mean
5 we talk about these actions, but still
6 outstanding is matrix 9 and -- you know. I
7 think 9 we've started deliberating on.

8 MR. KATZ: Started.

9 CHAIRMAN GRIFFON: But 10, I think
10 15 through 15 -- or 10 through 14, I don't
11 know how far SC&A is. Are you through 14 yet?

12 MR. KATZ: They're finishing on
13 14.

14 MR. FARVER: About halfway through
15 14.

16 CHAIRMAN GRIFFON: Yes. So, 10
17 through 13 anyway we have no response.

18 MR. FARVER: We've finished up
19 with conference calls.

20 CHAIRMAN GRIFFON: Okay, so 10

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1 through 12 are sort of at NIOSH to work on
2 initial response. Is that right?

3 DR. ULSH: But I kind of earlier
4 got the sense of the committee, or at least my
5 sense, that the highest priority items should
6 be the old ones, 7th and 8th. Finish those
7 off.

8 CHAIRMAN GRIFFON: Yes, we want to
9 close these out now, but then we do want to
10 get to these newer ones because they're more
11 relevant to what's happening now. So, we want
12 to kind of catch up, I think.

13 Yes, so just to -- all I wanted to
14 say was that just because we only mentioned a
15 few actions today for NIOSH, there's still
16 that backlog of work for the other sets that
17 you can certainly be continuing on.

18 DR. ULSH: Have we finished up 7th
19 and 8th?

20 CHAIRMAN GRIFFON: There might

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1 also be a lot of low hanging fruit on those
2 other ones that you can move quicker on. I
3 don't know.

4 MR. HINNEFELD: In fact, we should
5 look at 10 through 12 for AWE claims on our
6 side, for people on our side and get some
7 responses back on that.

8 CHAIRMAN GRIFFON: So, there might
9 be some way to at least keep those rolling a
10 little bit. Let's look at a date in
11 September. Anybody -- David Richardson is not
12 on the phone anymore, is he?

13 MR. KATZ: No, David --

14 CHAIRMAN GRIFFON: And we don't
15 have John, but we can at least get --

16 MR. KATZ: Let's go grab a date
17 anyway, and then I'll send that out to
18 everyone to confirm that they can make it.

19 CHAIRMAN GRIFFON: Sounds good.

20 MR. KATZ: We'll schedule

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1 Procedures, but we're waiting on scheduling
2 TBD-6000 to schedule that. So, if we look
3 beyond the 21st, we're sort of out of the
4 danger zone of --

5 CHAIRMAN GRIFFON: Beyond
6 September 21st?

7 MR. KATZ: Well, yes. September,
8 yes. We were saying late September anyway.
9 So, like that last week of September, for
10 example.

11 MR. STIVER: Is it the 27th?

12 MR. KATZ: Yes, 27th, 28th, 29th.

13 CHAIRMAN GRIFFON: Getting close.

14 MR. KATZ: It's close to the
15 fiscal year, but as long as we do our travel
16 now, we're fine.

17 CHAIRMAN GRIFFON: 29th or 30th I
18 would prefer.

19 MEMBER CLAWSON: I can do it the
20 29th, but I can't 30th. This is Brad. I can

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1 do it any time the 26th through the 29th.

2 CHAIRMAN GRIFFON: Let me just --

3 I am presenting at a conference in Washington.

4 I think it's the week before, but I -- I

5 don't have it on my calendar. So, I think the

6 29th works. Anyone else on the phone that --

7 MR. KATZ: Okay, so let's do --

8 CHAIRMAN GRIFFON: Wanda, the 29th?

9 MR. KATZ: Twenty-ninth is the
10 first choice?

11 CHAIRMAN GRIFFON: Yes.

12 MR. KATZ: And the 28th, would that

13 at all -- is that the wrong day of the week?

14 CHAIRMAN GRIFFON: Yes. It's kind
15 of breaking up too much.

16 MR. KATZ: Okay, so let's shoot

17 for the 29th. I'll send an email out to the

18 other Members, and if that works, that'll be

19 it.

20 CHAIRMAN GRIFFON: Okay.

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1 Otherwise, we can go iteratively on the
2 emails.

3 MEMBER MUNN: And so, if you can
4 put Procedures on either side of that.

5 MR. KATZ: Well, okay. We were
6 looking for the prior week on Procedures,
7 though. But we could try to sister them up.

8 MEMBER MUNN: It'd be really nice.

9 MR. KATZ: Okay, so I will shoot
10 for that then as well. I'll have to send an
11 email on that one too, but I can do that now
12 because it's not going to get -- that's not
13 going to be any trouble with TBD-6000.

14 CHAIRMAN GRIFFON: Okay, then I
15 think that's it for now. I will generate a
16 memo on that first item we discussed on the
17 ten-year review stuff, and circulate it to
18 everyone. I mean when I send it to you guys,
19 I'm sending it to you two.

20 MR. KATZ: Yes, copy me to --

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1 CHAIRMAN GRIFFON: And Ted.

2 MR. KATZ: -- cover anyone that
3 you might miss.

4 CHAIRMAN GRIFFON: And John. Yes,
5 yes. So, I'll generate that in a couple
6 weeks.

7 MR. KATZ: And send the revised
8 matrices?

9 CHAIRMAN GRIFFON: I'm going to do
10 that right now.

11 MR. KATZ: Send them to me, and
12 I'll get them out to everybody again.

13 CHAIRMAN GRIFFON: Yes, because
14 that works good for me. Then I don't forget
15 about it.

16 MR. KATZ: And we are adjourned?

17 CHAIRMAN GRIFFON: Meeting
18 adjourned.

19 (Whereupon, the above-entitled
20 matter went off the record at 4:37 p.m.)

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