

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

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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

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SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEWS

+ + + + +

THURSDAY
SEPTEMBER 24, 2015

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The Subcommittee convened via
Teleconference at 10:30 a.m. Eastern Time, David
Kotelchuck, Chairman, presiding.

PRESENT:

DAVID KOTELCHUCK, Chairman
JOSIE BEACH, Member
BRADLEY P. CLAWSON, Member
WANDA I. MUNN, Member
DAVID B. RICHARDSON, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official
BOB BARTON, SC&A
KATHY BEHLING, SC&A
NICOLE BRIGGS, SC&A
RON BUCHANAN, SC&A
GRADY CALHOUN, DCAS
DOUGLAS FARVER, SC&A
ROSE GOGLIOTTI, SC&A
ED MAHER, ORAU
JOHN MAURO, SC&A
MUTTY SHARFI, ORAU
SCOTT SIEBERT, ORAU
MATTHEW SMITH, ORAU
JOHN STIVER, SC&A

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

(10:31 a.m.)

MR. KATZ: So let me, for Board Members, we have -- I'm going to deal with conflicts. It's easier for me to do than for you to recall yours. But we have all the Board Members. Dr. Kotelchuck's here, Richardson, Brad Clawson, Josie Beach, Wanda Munn, Dave Richardson, all on the line. So they're all present.

For conflicts, let me just run through them. Brad is conflicted on INL cases. Josie on Hanford and Wanda on Hanford. Dr. Poston, if he joins us, let me just cover his now, is conflicted for ORNL and I think we have a case from there today, BWXT, Sandia, LANL, ANL, that's ANL-West, Lawrence Livermore National Lab, and Y-12. So I can redo that if and when John joins us.

So let's move on to attendance for the NIOSH ORAU team.

MEMBER CLAWSON: Hey Ted, just one second while you're on conflicts. Because I'm a little bit confused on the INL because ANL-West was always separated from us but then it became us.

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1 MR. KATZ: Right.

2 MEMBER CLAWSON: So what are we doing
3 on that? Because we had a little thing here a while
4 back about that. How do I, I guess I'm wondering
5 how I treat that.

6 MR. KATZ: Well you treat that as being
7 conflicted.

8 MEMBER CLAWSON: Okay.

9 MR. KATZ: There may be, I'll get back
10 to you with details if there's a period for ANL when
11 you're not. But for the time being, just treat
12 that as a conflict, one big --

13 MEMBER CLAWSON: Okay. Well I'll just
14 treat it that way then. I just wanted to make sure.

15 MR. KATZ: Okay. And I'll get back to
16 you Brad, if there's a period for which you were
17 not conflicted for ANL. Okay. So anyway, let's
18 get back to then the NIOSH ORAU roll call.

19 (Roll Call.)

20 MR. KATZ: Very good. Welcome to all
21 of you. Federal officials, contractors to the
22 fed. This is Ted Katz. I'm the Designated
23 Federal Officer for the Advisory Board. I'm not

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1 expecting actually anyone from Office of General
2 Counsel.

3 So do we have any, there's no public
4 comment session or whatever, but do we have any
5 members of the public who wish to register their
6 attendance? No response Very good. And then let
7 me just circle back around and see if John Poston,
8 have you joined us? No response Okay then.

9 Let me just remind everyone, since we
10 have quite a few people on this call, to mute your
11 phones except when you are addressing the group.
12 That will just improve the audio for everybody.
13 And also, try not to use your speaker phone too much
14 because it causes problems if people are, you get
15 feedback from other people's lines. Dave,
16 otherwise, it's your agenda.

17 CHAIRMAN KOTELCHUCK: Okay. Well
18 folks, you all have the agenda. Let's start out
19 with the first bullet on summarizing review results
20 for the Secretary's Report. Rose, is it you who
21 are going to present on the summary information
22 from Sets 6-13?

23 MS. GOGLIOTTI: Yes, that's me.

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1 CHAIRMAN KOTELCHUCK: Okay. Great.

2 MS. GOGLIOTTI: Al right.

3 CHAIRMAN KOTELCHUCK: And those were,
4 if I may start out by saying, those were very nice
5 and useful graphs and tables.

6 MS. GOGLIOTTI: Thank you. Now just a
7 refresher for everyone, the 2009 Secretary Letter
8 went out in May. And at the last meeting, we
9 decided that this Secretary Letter would cover sets
10 six through thirteen which is tabs 101 through 324.
11 At that meeting we were also tasked to provide some
12 statistics and the equivalent statistics that were
13 in the last report.

14 Since then, I spoke with Dr. Kotelchuck
15 and Ted and we did add some more figures to these.
16 Okay. So our first table, and these are the same
17 that are in the memo, I just put them in PowerPoint
18 so they'd be easier for everyone to see. We did
19 review 232 cases in this grouping.

20 Now two cases we did not review because
21 of a PER issue. But the remaining cases, 193 were
22 best estimates, so roughly 80 percent. And 32 were
23 maximizing and seven were minimizing. And it is

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1 significantly different than the last letter which
2 did look at 76 percent over-estimating.

3 That might be worth mentioning why the
4 Subcommittee has changed their selection approach.
5 Okay. And Table 2 is our summary of overall case
6 rank. And that reflects the cumulative impact of
7 all case findings. From our Dose Reconstruction
8 Reports, that's the last line of the Table 2
9 checklist and it takes into account the impact of
10 all the findings.

11 Now typically, there's four options for
12 us as a dose reconstructor when we select these low,
13 medium, high, and under review. But since all of
14 these have been resolved, we did go back and
15 re-evaluate. So there are no more under review
16 because all of these cases have been resolved, or
17 nearly all of them have been resolved at this point.
18 So those all have been reassigned.

19 Okay. And moving on to Table 3, here
20 is our summary of findings and observations from
21 this case set. And in total we had 670. And that
22 represents all the findings, adding in all the
23 observations for the King findings, removing out

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1 the findings that became observations and those
2 that were withdrawn.

3 And we did also reassess these. And
4 you'll see that majority of them are low with some
5 medium and a few high. We also had 206
6 observations. And observations actually began in
7 the 8th set, so this is reflecting of the 6th and
8 7th set in our observations. Okay.

9 MR. KATZ: Rose, I just wonder if it
10 would be helpful for the others if you just remind
11 everyone what low, medium, and high are interpreted
12 as.

13 MS. GOGLIOTTI: Yes. Low means that
14 it has a low impact on the dose or a low significance
15 in the case. Medium would be a medium impact on
16 the case or a medium programmatic impact. And high
17 would be a very significant, those would be several
18 rem dose increases.

19 CHAIRMAN KOTELCHUCK: Right. And in
20 general, these are for 232 cases so you were finding
21 an average of roughly three findings per case and
22 a little less than one observation per case.

23 MS. GOGLIOTTI: Yes. Well a little

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1 more than one observation per case because it
2 doesn't reflect the sixth and seventh sets.

3 CHAIRMAN KOTELCHUCK: Right.

4 MS. GOGLIOTTI: That is a change from
5 the last letter which did have four findings per
6 case and no observations, obviously.

7 MR. CALHOUN: Hi, this is Grady. Does
8 this report address what we discussed earlier about
9 the cases that we've decided really weren't
10 findings. Has that been changed yet?

11 MS. GOGLIOTTI: We did review or remove
12 four findings. But we did not respond to anything
13 different.

14 MR. CALHOUN: Well, from the examples
15 that I provided, I think, you know, at some point
16 we need to at least discuss that. Because we
17 actually -- every one of them that I provided was
18 in the previous report as being a finding. I think
19 we believe they were not.

20 So I don't know how you want to deal with
21 that one but I just want to make sure that, please
22 don't forget about it.

23 CHAIRMAN KOTELCHUCK: This is Dave. I

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1 think that we need to have a discussion about that,
2 certainly for all the Subcommittee Members as well
3 as myself, who read the correspondence between you
4 and Ted and Rose. But why don't we hold that and
5 then come back to that as a substantive discussion
6 afterward, after she presents her graphs and
7 tables.

8 MR. CALHOUN: That works for me.

9 CHAIRMAN KOTELCHUCK: Okay.

10 MS. GOGLIOTTI: Okay. Sounds good.

11 Moving on to Table 4. This is a summary of our
12 finding classification system. We do classify all
13 findings as A through F while we're going through
14 the issues resolution process. So A is an issue
15 of judgment of where the person worked.

16 B would be exposure scenarios, so they
17 consider everything. Was there a correct external
18 model, is C. Did they use the correct internal
19 model assumptions, is D. E is a quality concern.
20 And F is, did they not meet any of the other
21 criteria. So that's the catchall.

22 The majority of them were external
23 dose, which is not surprising. If we were to go

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1 through and remove findings, these numbers would
2 obviously change. Okay.

3 Figure 1 is a breakdown of all the
4 employment sites for sets six through thirteen.
5 And here you'll notice that the bars don't quite
6 add up to the 232 cases. That's because if the EE
7 happened to work at multiple work locations, that's
8 reflected here. This table was provided in the
9 last Secretary Letter. Okay?

10 And Figure 2, this is the figure that
11 you requested, Dave, that compares the first one
12 through five grouping with the current grouping of
13 six through thirteen.

14 CHAIRMAN KOTELCHUCK: Right. Good.

15 MS. GOGLIOTTI: These are just, again,
16 the same.

17 CHAIRMAN KOTELCHUCK: Right. And for
18 folks from the Committee, you'll remember that the
19 first report was 100 cases. So the number and the
20 percents are the same. And I think later, you
21 didn't bother putting the percent, you just put the
22 number on those, for the blue bars for this one.

23 MS. GOGLIOTTI: Yes. And you asked me

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1 to rework the way that I --

2 CHAIRMAN KOTELCHUCK: Right.

3 MS. GOGLIOTTI: -- display the
4 information.

5 CHAIRMAN KOTELCHUCK: Right. And
6 that's good. Also, this is of course -- did this
7 include -- does this have all 332 cases? Or are
8 there a few plants that are left out?

9 MS. GOGLIOTTI: This is all the cases,
10 of course, minus the two that we did not review.

11 CHAIRMAN KOTELCHUCK: Right. Okay.

12 MS. GOGLIOTTI: So everything through
13 the 13th set.

14 CHAIRMAN KOTELCHUCK: Okay. Good.

15 MR. CALHOUN: This is Grady again.
16 This is just an observation on this graph. I think
17 it would look much more favorable to us if you --
18 those bar graphs there appear to be keyed in on the
19 number of findings. But I think percentages are
20 much more relevant. I don't know. It's
21 misleading when we've got so many more cases and
22 you list the total number of findings rather than
23 the percentage.

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1 MS. GOGLIOTTI: And actually, maybe
2 this next figure might help with this. This,
3 instead of next to each other, I stacked them on
4 top of each other. You can see here clearly that
5 the first five sets don't represent as many cases
6 as six through thirteen. But we can certainly
7 change Figure 2 if that's what the Subcommittee
8 desires.

9 MR. KATZ: I'm confused by what Grady
10 just said because -- was the first graph findings
11 numbers?

12 MS. GOGLIOTTI: No.

13 MR. KATZ: Oh.

14 MS. GOGLIOTTI: Those were cases.

15 MR. KATZ: Right. It's just cases,
16 Grady.

17 MR. CALHOUN: What's the percent? I
18 can't see it. I have nothing on my screen now.

19 CHAIRMAN KOTELCHUCK: Yes. Neither
20 do I.

21 MR. KATZ: But the graph you were
22 commenting on, Grady, just showed the number of
23 cases for each site. It's not --

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1 MR. CALHOUN: Although it's a percentage
2 too though.

3 MR. KATZ: But not a findings, it's not
4 the findings.

5 MR. CALHOUN: Okay. That was a just
6 breakdown of percentages of the cases observed?

7 CHAIRMAN KOTELCHUCK: Yes.

8 MR. CALHOUN: Al right. My bad.

9 MR. KATZ: That's okay.

10 MS. GOGLIOTTI: Sorry, for some reason
11 my screen stopped sharing that.

12 CHAIRMAN KOTELCHUCK: That's okay.

13 MS. GOGLIOTTI: Okay. And Figure 3 --

14 CHAIRMAN KOTELCHUCK: Figure 3 is, to
15 me, a very powerful, important one because it
16 really gives us a sense that we generally
17 accomplished the one percent goal that we
18 internally set for ourselves.

19 MS. GOGLIOTTI: Great, yes. I love
20 this figure. I think it tells a great story. Here
21 you'll see I stacked the first five with the
22 remaining six through thirteen. And it's a
23 comparison with the one percent selection rule.

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1 These values were actually provided to us from
2 NIOSH and they were provided with the date of August
3 of 2010.

4 They are the values that were used by
5 the Subcommittee to select the thirteenth set of
6 cases. And the 13th set wasn't actually selected
7 until early 2011. So there was about a six-month
8 gap there. But they were the most current and we
9 don't have a way of going back and getting
10 statistics from the exact point that the 13th piece
11 was selected.

12 And I will point out also, for this
13 figure, every site that is included had at least
14 three or more cases. And if one percent wasn't
15 three or more cases, it ended up in the remaining
16 bin here because I didn't want to lose those values.
17 Okay?

18 And moving on to Figure 4. And this is
19 the same as Figure 1 but adding in findings. So
20 this is six through thirteen. So the blue lines,
21 obviously, represent the cases that were reviewed
22 and the red would be findings. So for instance,
23 here we had 144 findings for 37 Savannah River

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1 cases.

2 CHAIRMAN KOTELCHUCK: Rose, I'm not
3 sure that this is a, this is less significant in
4 my mind than the previous graph because I'm not sure
5 we need to know the number of findings per plant.
6 That suggests that there were lots of findings on
7 Savannah River Site and Hanford.

8 But that could reflect some of the
9 issues that Grady, I know, had raised about, are
10 some of these lack of information from SC&A
11 compared to what the ORAU people were doing? That
12 it was not a miscommunication, but a different
13 case.

14 I'm not sure this is a terribly
15 important figure. The overall results which you
16 gave in the table above, they certainly are
17 important and shows that you're doing your job,
18 SC&A is doing its job.

19 MEMBER RICHARDSON: I found it very
20 useful.

21 CHAIRMAN KOTELCHUCK: Is that David?

22 MEMBER RICHARDSON: Yes.

23 CHAIRMAN KOTELCHUCK: Well good.

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1 Okay. How so?

2 MEMBER RICHARDSON: Well it's getting
3 to the fact that information or findings aren't
4 uniform across the different sites. So whether
5 it's expressed as numbers or a ratio --

6 CHAIRMAN KOTELCHUCK: You're saying it
7 identifies problem sites? Analytical problems in
8 different sites.

9 MS. GOGLIOTTI: Well, and none of these
10 figures are set in stone. We can change figures,
11 we can add figures, we can remove figures.

12 MEMBER RICHARDSON: Pardon?

13 MS. GOGLIOTTI: None of these figures
14 are set in stone. If you want to include a figure
15 or include additional --

16 CHAIRMAN KOTELCHUCK: Yes.

17 MS. GOGLIOTTI: -- include additional
18 or remove --

19 CHAIRMAN KOTELCHUCK: Sure.

20 MR. STIVER: This is John Stiver, if I
21 could jump in for just a second here. Regarding
22 raised concern, I can certainly understand that.
23 But as regards this particular graph, I mean, we

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1 have the statistics -- and we'll talk about this
2 a little bit later.

3 Rose was working on this last week and
4 we kind of looked at all the findings and tried to
5 determine which ones were, kind of fell into that
6 bucket. So it would be a pretty simple matter of
7 going back and adjusting those values. I think
8 it's still important to show that, you know,
9 certain sites, the ratio of findings to cases, I
10 think that's some valuable information and
11 something the Secretary would like to see.

12 CHAIRMAN KOTELCHUCK: Okay.

13 MS. BEHLING: Excuse me. This is also
14 Kathy Behling. I believe that in this particular
15 case, this Figure 4 would also be useful for the
16 Dose Reconstruction Methods Work Group. I believe
17 they requested this type of information. Now
18 whether you want to include it with the Secretary's
19 Letter or not, but I think they would benefit from
20 seeing this.

21 CHAIRMAN KOTELCHUCK: Right. And
22 look, whatever I say and like what David said just
23 now is a significant point. Seems to me that I

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1 didn't see it initially. But this is, after all,
2 for all of us. This is a first take on the
3 breakdown of the data. We're going to refine it
4 and condense it into some more minimal number of
5 tables and graphs. But this is the first crack and
6 it's a very good one.

7 MEMBER BEACH: Yes, Dave, this is
8 Josie. I want to chime in too. I found that the
9 number of cases reviewed versus the findings
10 reported for those cases was interesting and
11 helpful for me in all of these graphs. So I think
12 we should keep it.

13 CHAIRMAN KOTELCHUCK: Okay. Good.

14 MS. GOGLIOTTI: Okay. We've got a few
15 more slides on this. I will move to the next one
16 here. Okay. Figure 5 is our breakdown of cases
17 with no findings and this is the figure that Ted
18 requested. It's fairly self-explanatory. This
19 is, again, sets six through thirteen with the total
20 cases compared to cases that do not have any
21 findings.

22 And here I did have to break these into
23 cases, sites with one case and sites with two cases.

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1 That's just because if I included every single
2 site, we would need five pages of tables to show
3 one bar or two bars. So they're not lost but they
4 are just hidden here.

5 MR. CALHOUN: I can't see that, the
6 legend there. Is the red total cases with
7 findings, I'd imagine, or without?

8 MS. GOGLIOTTI: Without findings.

9 MR. CALHOUN: So that's -- okay. The
10 red is total without. And is the blue total cases?

11 MS. GOGLIOTTI: Yes.

12 MR. CALHOUN: Okay. Al right. I just
13 couldn't see that over there.

14 MS. GOGLIOTTI: Okay. And Figure 6 is
15 a breakdown of tabs six through thirteen again, and
16 this is by decade first employed. And here I
17 listed the selection goals that were included in
18 the last Secretary Letter. They don't quite align
19 with what was done this time.

20 And so we can include those or not
21 include those based on your desires here. And they
22 do reflect somewhat similar to what was done in the
23 original letter. Okay.

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1 MEMBER MUNN: I would expect some
2 changes over the period of time since the first
3 report. You wouldn't expect the same percentage
4 of decades to be what we saw.

5 MR. KATZ: I wonder, Wanda, you've been
6 here for the long haul, if you could remind us. I
7 honestly don't recall these goals being set this
8 way. I'm just sort of curious how those goals were
9 set in the first place.

10 MEMBER MUNN: Well, yes. I didn't
11 chime in when there was the discussion going on
12 about Figure 4. But, you know, originally it was
13 our plan to try to look at about two percent of the
14 cases. So when you look at the number of findings
15 that we have, when you look at the number of cases
16 that are being reviewed, the original goal was to
17 try to aim for about two percent.

18 MR. KATZ: But, Wanda, I'm talking
19 about these goals of the decades. Ten percent in
20 the '40s, 25 percent in the '50s. I just have no
21 recollection of that discussion. Do you?

22 MEMBER MUNN: No, I don't. As a matter
23 of fact, I don't know why we would have done that

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1 without a better metric on how many cases we were
2 going to have. We didn't have that information.

3 MR. KATZ: John Mauro, maybe do you
4 recall? Honestly this is just, this was a surprise
5 to me to see these goals.

6 DR. MAURO: I had to take you off mute.
7 Yes, I recall the meeting when all this was being
8 constructed and Mark Griffon was very much
9 involved, Paul. A strategy needed to be developed
10 on the taxonomy of what we were going to pick.

11 There were a number, one of which was
12 decades, of course there were sites, cancer types,
13 PoCs. And there may have been other categories
14 that established the basis of trying to shoot for
15 those goals. And when the Board sat around the
16 table, when there was, like, a set of maybe 60 or
17 so cases that were going to be selected from for
18 review, there would be information in front of each
19 member of the Board regarding where we stood on each
20 one of these characteristics, including decade.

21 So yes, this was something that was
22 discussed quite a bit very early on in the program.

23 MEMBER MUNN: I recall the discussion

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1 of sorts, but I think I didn't realize we were
2 actually making that selection for a statistical
3 purpose. But yes, we were, in the first place, we
4 were dealing with the information that we had
5 available to us. There's no way you could project
6 what was going to happen over a decade.

7 MEMBER RICHARDSON: This is David
8 Richardson. I remember that too. I think it was
9 a meeting in Cincinnati in the basement. Or at
10 least that was one, because we had a discussion
11 about whether to do random sampling of, like, a two
12 percent sample or stratified sampling.

13 John's right, I remember Mark Griffon
14 proposing a number of factors that we would
15 stratify on.

16 MS. BEHLING: Excuse me. This is
17 Kathy Behling. I actually have, that I can send
18 to everyone, a flow diagram from back in 2004 that
19 lists these criteria and lists the percentage of
20 the decade employed and the duration of employment
21 and the fact that you wanted to do 2.5 percent. I
22 actually have, I have a document that shows the

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1 initial Board selection criteria.

2 MR. KATZ: Okay. Thanks, Kathy. I
3 just raised the issue because I didn't recall it
4 and I think it's helpful to have some background
5 context on how these came about. I mean, when you
6 look at these, you can sort of understand
7 intuitively that the '50s and '60s were sort of a
8 prime period, '70s, to be looking at in a
9 concentrated way.

10 Maybe the '40s, the thought that was
11 that there wouldn't be as many cases just because
12 it was a long time ago. I don't know.

13 CHAIRMAN KOTELCHUCK: Can I chime in?
14 I've only been here for the last several years or
15 so, since 2012. And I don't remember using these
16 selection goals. To the extent, though, that I was
17 involved with selecting cases in six through
18 thirteen, or really ten through thirteen, it seems
19 to me that I generally wasn't able to use all of
20 the selection criteria.

21 The one that seemed to me most
22 significant and the one I know that I used when I

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1 was doing my selections-- each person did their
2 own--

3 was the years of employment. And I
4 thought that was important. So I'm not sure in
5 cases 101-334 that this was an operational
6 selection goal. Whereas I'm certain, in terms of
7 at least one person on this Subcommittee, that it
8 was the years of employment that was, in a sense,
9 determinative.

10 MR. KATZ: Yes. Dave, I think that's
11 been my observation over these, what, eight years
12 or whatever since I've been a DFO in watching
13 selections, is that, I think you're on the mark in
14 how generally the Board Members have been doing
15 selections.

16 And I guess the only point I'd just
17 make, I'm not even sure that the goals themselves,
18 anymore, are that important. I think the figure
19 that is important to show is the distribution. But
20 I'm not sure the original goals really matter that
21 much.

22 CHAIRMAN KOTELCHUCK: Yes, I agree.

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1 At least this set of selection goals.

2 MR. KATZ: Exactly.

3 CHAIRMAN KOTELCHUCK: And this is only
4 for cases 101-334.

5 MEMBER MUNN: And I have to
6 re-emphasize, remember the body of data from which
7 these goals were derived was minuscule compared to
8 what we deal with 12 years later.

9 MR. KATZ: Right, Wanda.

10 MEMBER MUNN: And that's what these
11 decisions were based on, the body of data that we
12 had, the cases that we had filed already, you know,
13 which was very small in 2004 by comparison to now.

14 CHAIRMAN KOTELCHUCK: My sense is
15 that, and we haven't gone through all the pie
16 charts, but that this set of selection goals listed
17 on Figure 6, I would not put in. Because I don't
18 think it characterizes, as we've noted, six through
19 thirteen.

20 DR. MAURO: This is John Mauro again.
21 Just to add an additional perspective, I recall
22 that the judgments that were made collectively, you

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1 know, where each Member of the Board would
2 indicate, you know, I'd like to see a few more from
3 Hanford. My recollection, there wasn't any like
4 hard and fast quantitative criteria.

5 Now Kathy says they may have been
6 written up. But when it was actually implemented,
7 it really reflected judgments of each member of the
8 Board whose sense was that, you know, we could use
9 a few more at this site, we could use a few more
10 that are in this range.

11 So it was almost like everyone came
12 together to say, okay here's the set of 30, because
13 it used to be a process where there would be about
14 a set of 60 that NIOSH would provide that are
15 available. And then the Board together would each
16 make their own individual judgments on which ones
17 they would like to see amongst the next set of 30
18 that SC&A would look at.

19 But I don't recall any process where
20 we're saying, well, did we achieve a ten percent
21 goal for this decade? I don't ever remember it
22 discussed within that context.

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1 MEMBER MUNN: I don't think it ever
2 was, John.

3 MEMBER CLAWSON: This is Brad
4 speaking. It never was, but what we were getting
5 back to when we were making a lot of our selections
6 in the earlier time, it ended up that we were
7 getting a larger selection in the earlier years and
8 that was bothering us.

9 If I remember right, it was bothering
10 us that we want to be looking more to newer, the
11 later years a little bit, too. And I think this
12 is where that time frame came from. Because when
13 we first got started into this, most everything
14 that we had was in the earlier years.

15 And we wanted to see how we were
16 progressing above and beyond that. This was just
17 more of an informational, if I remember right, let
18 us know kind of where we were at and what time frame
19 that we were pulling from.

20 MS. GOGLIOTTI: I have a suggestion.
21 I'm not sure if this would be relevant but we could
22 potentially -- I'm sure NIOSH could provide

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1 statistics on how cases actually are, for the
2 percentage breakdown of employment site or decade
3 first employed in this case. And we could compare
4 those to that instead of the original selection
5 goals. Maybe it would be more meaningful.

6 MEMBER MUNN: Probably would.

7 CHAIRMAN KOTELCHUCK: Yes. That
8 might be interesting and helpful.

9 MR. CALHOUN: Giving me a task here.
10 Are you looking for a breakdown of all the cases
11 we have in house by decade? Or what are you looking
12 for?

13 MS. GOGLIOTTI: Well, in this case it
14 would be by decade first employed. But there are
15 several other figures that would be different
16 breakdowns also.

17 MR. CALHOUN: And this is all clients
18 for in house, first employment by decade?

19 MR. KATZ: Right. And the assumption
20 would be that the statistics wouldn't change that
21 much. I mean, you've done a lot more, quite a few
22 more dose reconstructions since this cohort. But

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1 that would be the assumption, that this probably
2 doesn't change that much now that we have this many
3 cases under our belt. But maybe they would.

4 MR. CALHOUN: My gut is telling me that
5 Figure 6 is going to be a lot different. I think
6 more, I think less than 50 percent of our cases now
7 have first employment in the '50s. But I'm just
8 basing that number on the ones you selected to look
9 at.

10 MEMBER MUNN: Yes, 101-334.

11 MR. CALHOUN: Yes. And I mean, I can
12 look at that. You know, you've just got to think
13 what the purpose is. I mean, it's no big deal. I
14 think we can do this pretty easily.

15 CHAIRMAN KOTELCHUCK: Sure. It would
16 --

17 MR. CALHOUN: Are we going to compare
18 that to what we're looking at and change what we're
19 doing?

20 CHAIRMAN KOTELCHUCK: Yes.

21 MR. CALHOUN: I doubt it because all
22 anybody's interested in more is 45-52 percent PoCs.

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1 CHAIRMAN KOTELCHUCK: Actually, I
2 mean, what you're saying probably makes sense. It
3 has to be. If this was started, if we started work
4 in the early 2000s, a decade ago, then we were
5 looking -- if people started employment in the
6 '50s, they had been 50 years out from their first
7 employment.

8 MEMBER MUNN: Exactly.

9 CHAIRMAN KOTELCHUCK: So of course, as
10 we go on now, we're going to have a lot more, I
11 suspect '60s, less '50s. It's a demographic
12 issue.

13 MEMBER MUNN: Yes.

14 CHAIRMAN KOTELCHUCK: So I'm not even
15 sure that that comparison -- since it's easy, it
16 would be interesting to look at and see what we
17 might deduce from it. But I'm not sure we're going
18 to be, that there's too much useful that we're going
19 to be able to deduce.

20 MEMBER MUNN: No, but I think it's
21 accurate that there will be a significant shift.

22 CHAIRMAN KOTELCHUCK: Oh, there has to

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1 be.

2 MEMBER MUNN: This is what I was trying
3 to point out.

4 CHAIRMAN KOTELCHUCK: Yes.

5 MEMBER MUNN: Repeatedly going back
6 and saying, remember, we were basing this on the
7 data that we had at the time. And the clients that
8 we had in 2004 don't bear any relationship to what
9 we have now.

10 CHAIRMAN KOTELCHUCK: Right.

11 MEMBER MUNN: Except as a base,
12 starting out.

13 CHAIRMAN KOTELCHUCK: Yes. Right.
14 Because the life expectancy alone would cut off a
15 number of potential claims.

16 MEMBER MUNN: Well, yes. One would
17 anticipate at this juncture, a significant number
18 of the original claimants --

19 CHAIRMAN KOTELCHUCK: I mean, it's
20 clear that these selection goals were thought about
21 and perfectly sensible in 2004.

22 MEMBER MUNN: Yes.

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1 CHAIRMAN KOTELCHUCK: And useful. I
2 don't think they represent selection goals now and
3 they're not particularly used.

4 MEMBER MUNN: No.

5 CHAIRMAN KOTELCHUCK: Right. Anyhow,
6 I think we had an interesting discussion and we have
7 tasked Grady, we've tasked your folks there. So
8 maybe we should just go on to Figure 7.

9 MS. GOGLIOTTI: Okay. Figure 7 is our
10 breakdown we looked at the cases in sets six through
11 thirteen by PoC. And here we have the selection
12 goals again. I did do a tally here and it is, 49
13 percent were below 44.9 percent PoC.

14 CHAIRMAN KOTELCHUCK: Right. And
15 these selection goals are certainly operable now
16 as we select cases. They remain important.

17 MS. GOGLIOTTI: I would even suggest
18 that maybe the 45 through 49 percent PoC have become
19 more important over time. But again, these are six
20 through thirteen, and we did end the thirteenth set
21 in 2011.

22 CHAIRMAN KOTELCHUCK: Right. How

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1 does this compare with the first hundred cases?
2 Were the numbers about --

3 MS. GOGLIOTTI: I would have to go back
4 and look.

5 CHAIRMAN KOTELCHUCK: Okay. It's not
6 --

7 MS. GOGLIOTTI: I assume they're very
8 similar but I would have to look. And I did provide
9 a copy of the last Secretary Letter in the meeting
10 files and that's in the historical documents
11 folder. Okay. So that is Figure 7.

12 CHAIRMAN KOTELCHUCK: Okay.

13 MS. GOGLIOTTI: And Figure 8 is a
14 breakdown by years of employment.

15 CHAIRMAN KOTELCHUCK: And these still
16 inform, actually inform our choices of cases.

17 MS. BEHLING: Excuse me. This is
18 Kathy Behling again. Just to go back to the
19 previous figure and answer your question, David,
20 in the first letter, the 45 to 49.9 percent PoC was
21 only five percent of the cases.

22 CHAIRMAN KOTELCHUCK: Wow.

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1 MR. KATZ: Yes. Remember, Dave, that
2 those were efficiency cases back then.

3 CHAIRMAN KOTELCHUCK: That's right.
4 That's right. Yes. Well, that's interesting and
5 that will be significant to point out in the report.

6 MR. KATZ: Yes.

7 CHAIRMAN KOTELCHUCK: Okay. Thank
8 you.

9 MS. GOGLIOTTI: Moving on to Figure 9,
10 this is our breakdown of the IREP risk models that
11 were used in each case. And here, I only included
12 each unique cancer. So if the claimant happened
13 to have five basal cell carcinomas, that only
14 counts as one in the table because only one risk
15 model was used.

16 CHAIRMAN KOTELCHUCK: Right.

17 MS. GOGLIOTTI: In this breakdown of
18 cases, we did cover all but five of the risk models.
19 And actually, you could say four because CLL wasn't
20 added until after it was done.

21 CHAIRMAN KOTELCHUCK: Right.

22 MS. GOGLIOTTI: But not surprisingly,

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1 the majority are prostate cancers and skin cancers.

2 CHAIRMAN KOTELCHUCK: Question, we did
3 add CLL before we finished 13, right?

4 MS. GOGLIOTTI: It was added within the
5 last two years, maybe.

6 CHAIRMAN KOTELCHUCK: Right.

7 MS. GOGLIOTTI: And so it was added
8 before we finished talking about them but after the
9 selection.

10 CHAIRMAN KOTELCHUCK: Right, right.

11 MS. GOGLIOTTI: So that could not have
12 been included in this.

13 CHAIRMAN KOTELCHUCK: Right.

14 MEMBER RICHARDSON: Just for
15 clarification, all male genitalia, that's the
16 prostate?

17 MS. GOGLIOTTI: Yes. And that's the
18 terminology that IREP uses.

19 MR. CALHOUN: I think you'd also get
20 testes in there as well. If you had cancer of the
21 testes, all male genitalia would be the model that
22 you would use. Or even, like some kind of

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1 connective tissue cancer to the penis would also
2 be included in that. It's not just prostate, but
3 the majority of it is.

4 MEMBER RICHARDSON: I hadn't realized
5 that the risk model for the testes was the same as
6 for the prostate. That's interesting.

7 MS. GOGLIOTTI: Okay. And Figure 10
8 is much the same, but I also included sets one
9 through five. It seems to follow the same trend
10 which is not surprising.

11 CHAIRMAN KOTELCHUCK: Comments by,
12 further comments or thoughts by Subcommittee
13 members?

14 MEMBER MUNN: My only comment is that
15 Rose did a gangbusters job on this. I was really
16 impressed when I saw the graphs.

17 MS. GOGLIOTTI: Thank you.

18 MEMBER MUNN: Those of us with
19 simplistic minds really understand data when it's
20 presented like this. So good job, thank you.

21 MEMBER RICHARDSON: Is there ever a
22 breakdown of cases by sex or race?

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1 MS. GOGLIOTTI: I certainly could do
2 that. I would think it that it would be majority
3 male.

4 CHAIRMAN KOTELCHUCK: Oh, absolutely.

5 MEMBER MUNN: No question about it.
6 You've got 95 percent.

7 CHAIRMAN KOTELCHUCK: That's the
8 question in my mind. First let's think of gender.
9 What would be the appropriate -- I don't know that
10 we want to run through every one of those tables
11 and graphs. But maybe one or two would seem most
12 important. Certainly types of cancer, right?
13 That is, models.

14 MEMBER RICHARDSON: Well it's partly
15 the models. But it's also, I think, just a
16 reasonable thing to describe. Are we evaluating
17 them? And I agree that the workforce in the past,
18 with the exception of some plants like some of the
19 gaseous diffusion plants, I think, where a lot of
20 the labor force was female. Like K-25 maybe? Is
21 that right?

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MEMBER RICHARDSON: And I think it
2 would be worth our report of the evaluation
3 considering, at least reporting the basic
4 demographic composition of the people we're
5 reviewing. Right now, it's just, you know, those
6 facts are invisible.

7 CHAIRMAN KOTELCHUCK: Absolutely. I
8 agree. I think the question only is, what should
9 we present? And should we simply go over all of
10 the basic tables that she's done for the subset of
11 female claimants.

12 MEMBER MUNN: My personal take would be
13 no. But I think it should be covered in the text.
14 Certainly we need to comment on it, indicate that
15 it is a consideration that we're aware of. But
16 that, statistically -- if the statement can be made
17 after you see the comparative numbers, if the
18 statement can be made that it's not statistically
19 significant, then it seems wise to. Certainly it
20 needs to be addressed in text. But I question
21 whether it's useful to accommodate it in each of
22 these graphs.

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1 CHAIRMAN KOTELCHUCK: Although you,
2 you will recall a few moments ago that you said
3 there's nothing like having a set of graphs and
4 tables to help all of us understand the data. And
5 I think that, in that spirit, I do think we ought
6 to have some of this in tables and graphs.

7 MEMBER MUNN: For the moment, David, I had not
8 thought about that specifically and it seems to me
9 you've made a very important point. I would assume
10 all the rest of us -- if anybody disagrees, please
11 say so but that all of us would agree that we should
12 analyze female and then we'll talk about it. We'll
13 also talk about race.

14 But in terms of female, for myself I
15 would just let the folks at SC&A see, go over, take
16 the female cohort and then see what seemed to be
17 useful tables and figures without prescribing it
18 in advance that they must do all or this or that.
19 I hadn't thought through which ones would be most
20 useful.

21 MEMBER RICHARDSON: That sounds great.
22 I was really just thinking about something like a

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1 Table 5 as to how many men and how many women were
2 among the cases.

3 CHAIRMAN KOTELCHUCK: Yes.

4 MEMBER RICHARDSON: You know, maybe a
5 breakdown. I don't know if there's information on
6 race, probably there is. But for some people --

7 MS. GOGLIOTTI: I don't know that
8 there's race statistics but I'll have to go back
9 and take a look.

10 MR. CALHOUN: This is Grady, and I
11 don't think that we are going to have race unless
12 it's a skin cancer. Because that's the only time
13 that -- I'm pretty sure I'm right here but the only
14 time we actually ask that question is for skin
15 cancers.

16 CHAIRMAN KOTELCHUCK: Yes. And I can
17 see policy reasons why we wouldn't want to ask
18 people.

19 MR. KATZ: This is Ted. I mean the
20 thing that I think would be most interesting along
21 the lines of what David has proposed, I think is
22 just seeing -- and again, I don't know if we can

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1 get the denominator for this. But the comparison
2 between the cases we've reviewed, male versus
3 female, and the cases that there were to select from
4 by site.

5 I think that would sort of, I don't
6 know, that seems to be the most interesting
7 question. Just that, how were we doing in
8 selecting male versus female in these case
9 selections? I mean, versus, I think what cancer
10 they have and so, I'm not sure that really tells
11 you anything.

12 Because this is the, you know, the
13 review of cases. It's not about and there's no
14 reason to expect that somehow the dose
15 reconstructions are done better or worse for men
16 than women.

17 CHAIRMAN KOTELCHUCK: Right. Grady,
18 I have another task for you. This look at the
19 gender would only be meaningful if we could get the
20 percent of females who submitted claims. Or the
21 number of females who submitted claims. Then we
22 could look at what percentage of the females were

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1 gotten and perhaps, what percentage were reviewed
2 by us.

3 MR. CALHOUN: Total percentage men
4 versus women in --

5 CHAIRMAN KOTELCHUCK: Claimants.

6 MEMBER MUNN: Yes. Just a pie chart
7 showing percentage of male and females.

8 MR. KATZ: And would you want it by site
9 or not, Dave?

10 CHAIRMAN KOTELCHUCK: I don't know
11 because the numbers may be so small that I don't
12 know -- there probably wouldn't be too many sites
13 where you had a large cohort of females who that
14 were claimants. Well, that might not be true.

15 MR. KATZ: I have no idea.

16 CHAIRMAN KOTELCHUCK: I don't know. I
17 guess the answer, my answer to your question is I
18 don't know. Let them take a look at it.

19 MR. KATZ: I guess all I'm saying is,
20 I mean, maybe it's not so much interesting to the
21 Secretary, but maybe to our own selection purposes
22 down the road. If you know that at certain sites,

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1 there's actually a substantial proportion of women
2 and yet we're not getting them, you may want to
3 target that way. And for that, it'd be nice to know
4 the sites.

5 CHAIRMAN KOTELCHUCK: Yes. We
6 certainly have selection goals for cases to be
7 reviewed about making sure that we have female
8 members.

9 MR. KATZ: Right. So if, for example,
10 at one of the Oak Ridge sites there's a high
11 proportion of women, you'd want to know that you're
12 capturing it sort of proportionally in your
13 reviews, too. And then you'd know also, for other
14 sites where there are very few women, that that's
15 not really the issue. The issue is there are very
16 few women.

17 CHAIRMAN KOTELCHUCK: Right.

18 MR. KATZ: So I don't know. It seems
19 to me like the site, if Grady can do it by site,
20 that would be nice.

21 CHAIRMAN KOTELCHUCK: I expect, Grady,
22 that you can analyze by site as well as by overall

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1 number of claimants or percent of claimants pretty
2 easily. Right?

3 MR. CALHOUN: Yes. We can do
4 anything.

5 CHAIRMAN KOTELCHUCK: Well, but I mean
6 you could even do it easily. So why not do it? And
7 again, I would leave it to Rose and the SC&A folks
8 to try to make the best sense out of it they could,
9 what seemed to be the most useful, without
10 prescribing it in advance.

11 MS. GOGLIOTTI: Dave, I am somewhat
12 concerned that we won't have enough females to make
13 a table even meaningful.

14 CHAIRMAN KOTELCHUCK: And I think
15 that's quite possible. And that's why I say,
16 that's why I don't want to give directions but just
17 say, take a look. Certainly, we have to have a
18 table. Right? And we certainly want to deal with
19 it in the text as Wanda suggested. And let's see.
20 Right? What seems to make most sense.

21 And with race, I think we've answered
22 the question that we don't gather statistics by

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1 race except for skin cancer. And therefore, is
2 there anything meaningful about looking at skin
3 cancers where we know race? I don't think so but
4 what do others think?

5 MR. KATZ: It only has a bearing on the
6 risk models so I wouldn't think so. This is Ted.

7 MEMBER MUNN: I wouldn't think so.

8 CHAIRMAN KOTELCHUCK: Yes.

9 MEMBER MUNN: And in any case, you're
10 really getting down into the weeds. I can't
11 imagine that that kind of minutiae -- we keep
12 talking about what we want is the 30,000-foot view
13 for the Secretary.

14 CHAIRMAN KOTELCHUCK: Right. Al
15 right. So obviously we will address this in the text
16 also. Because it's important to say that we didn't
17 gather information on race. It's not relevant in
18 a compensation case.

19 MEMBER RICHARDSON: I think I would
20 take issue with the last part.

21 CHAIRMAN KOTELCHUCK: Really?

22 MEMBER RICHARDSON: I think there's

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1 concern, there's been voiced perspectives about
2 racial and gender differences in monitoring
3 practices at these facilities. And racial and
4 gender differences in the assignment of tasks and
5 placement into jobs. So that work was structured
6 by race and sex. And the completeness of
7 monitoring is objectively -- differs by race and
8 sex.

9 So it's something that, I mean,
10 particularly for example women, I would be looking
11 into in the future over the next decade. There's
12 going to be more claims from women because there
13 were more women employed as time progressed at
14 these facilities and they moved into jobs that
15 involved more work in radiologic controlled areas.

16 And as they transitioned into those
17 jobs, they had periods of employment with gaps
18 where they weren't monitored. So at some point,
19 we need to think, I think, about how we're, ask the
20 same sort of questions that we --

21 CHAIRMAN KOTELCHUCK: Right.

22 PARTICIPANT: -- have asked in the past

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1 but taking those considerations into account.

2 CHAIRMAN KOTELCHUCK: Right. You
3 make a good point. And perhaps we should think
4 about whether we -- and implicit in that is for
5 race, that we should be asking about race because
6 the jobs and related monitoring are race-based in
7 many cases, or race-skewed.

8 MR. KATZ: Well the program, Dave, is
9 not going to be able to ask for information on race
10 on that basis, just because we're interested. I
11 mean, that's something that would have to be
12 approved by OMB and so on. And that's just not
13 going to happen, I don't think.

14 DR. MAURO: This is John Mauro. A
15 thought came to me that, you know, when we look at
16 these data, you're looking at it within the
17 context, well you know, we looked at Bridgeport
18 Brass and we looked at these many cases, et cetera,
19 et cetera, and how different it was between the
20 first report and the second.

21 The thought that came to me while we
22 were discussing this is, isn't the real question,

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1 have we captured the right cross-section given the,
2 I think it's 40,000 or so cases that were
3 adjudicated over the last ten years. In other
4 words, I'm putting myself in the Secretary's shoes.

5 I'm saying to myself, okay listen,
6 there were 40,000 cases where a decision was made
7 and the Board reviewed one percent of those. To
8 what degree did that one percent capture the proper
9 cross-section of the demographics in terms of all
10 these parameters that we're talking about?

11 We've been talking about the
12 distribution in these pie charts, only from the
13 perspective of, what did we do. But don't you
14 think it would be of great interest to the Secretary
15 to say, well, that distribution, whatever it is in
16 terms of age or whatever, relative to what we're
17 operating from, the population, namely the total
18 demographics for all of the 40,000 cases or so that
19 were done.

20 It seems that theme is not here. And
21 I would think that is an important theme because
22 it tells us whether or not we've got a good

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1 cross-section. We know what the process is but we
2 have no perspective on, is this the right
3 cross-section? And the only way you know that is
4 by comparing it to 40,000 that were done.

5 MEMBER RICHARDSON: Perhaps as a
6 suggestion, we have a perception right now but we
7 haven't confirmed whether information about sex
8 and race are known for all claimants. I mean, they
9 are known in epidemiologic studies of these
10 populations. Are they or aren't they known within
11 the compensation program?

12 MR. CALHOUN: I can tell you for sure
13 that race is not known for non-skin cancer claims
14 because we don't ask. And if it's somewhere in
15 their documents, it wouldn't be something that was
16 queryable to try to come up with a report.

17 CHAIRMAN KOTELCHUCK: Yes.

18 MEMBER RICHARDSON: Okay. Well that
19 answers the question.

20 CHAIRMAN KOTELCHUCK: Yes, it does. I
21 think, actually, as we think about whether we
22 should think about the issue, about whether we

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1 should keep data about race in any fashion is really
2 a Board, and ultimately Secretarial and OMB matter.

3 We are looking over the past. Right?
4 And the Board will determine advice to the
5 Secretary for the future. So in a way, with the
6 answer on race, we basically covered what we can
7 cover in terms of the review. Right? Okay.

8 Well, and I think I was going to have
9 a follow-up question on that first bullet in our
10 agenda of, are there things we need to do that we
11 haven't done? And we have already discussed that,
12 right? And particularly now, with respect to
13 gender.

14 The next bullet that we have -- and by
15 the way, we've been going for about an hour. So
16 let's keep going for a while before we take a coffee
17 break or a comfort break unless I hear someone
18 suggest otherwise, or someones. Okay. Not
19 hearing that, let's talk about the report drafting
20 plans. A while ago, on September 10th, Ted sent
21 to me and some of the staff, a number of the staff,
22 suggestions for the report structure which I found

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1 useful. I don't think they were sent to our
2 Subcommittee members so I sent them out this
3 morning, half an hour before we got together.

4 But I think that might be a useful
5 template to start the discussion. And thanks,
6 Ted, for doing that. Did people see it? Or can
7 we put it up possibly? Or folks can find it in
8 their computers.

9 MS. GOGLIOTTI: What was the date of
10 that email?

11 CHAIRMAN KOTELCHUCK: September 10th.
12 There were a few September 10th letters. It's 7:00
13 p.m., September 10th. In a way, Ted, since you've
14 been involved in this and I've never been involved
15 in a report before, would you want to talk a little
16 bit if that is appropriate?

17 MR. KATZ: Sure.

18 CHAIRMAN KOTELCHUCK: I would find
19 that helpful, if you would.

20 MR. KATZ: Yes. I'll have to, let me
21 just pull it up myself.

22 CHAIRMAN KOTELCHUCK: Okay.

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1 MR. KATZ: Let me find it. I know you
2 sent it out this morning so I just have to dig it
3 out.

4 CHAIRMAN KOTELCHUCK: Right.

5 MR. KATZ: But all I did, just as
6 context while I'm looking for it, I didn't even look
7 at the first report to see exactly what that
8 framework was. But I just thought about,
9 typically, when you do a report to the Secretary
10 of any sort, sort of, and then I just obviously had
11 our content in mind.

12 But this is sort of a general structure
13 one uses for that kind of audience. But I didn't
14 look at what we did the first go-round. Someone
15 may have that fresh in mind as a contrast, if that's
16 much different.

17 CHAIRMAN KOTELCHUCK: Although I think
18 we said that so much has changed in the second
19 report, that I had the sense from the earlier
20 discussion and from folks who were around for the
21 earlier report, that this report is just many
22 secretaries later and really doesn't need to be we

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1 don't need to worry too much about the structure
2 of the first report.

3 You do suggest that the introduction
4 cover briefly the first report context, status,
5 nature of cases reviewed, findings and presumably
6 comparisons.

7 MR. KATZ: Yes.

8 CHAIRMAN KOTELCHUCK: Yes.

9 MR. KATZ: And just speaking to that --
10 I don't know why I can't find the darned email right
11 now.

12 MS. GOGLIOTTI: I've got it pulled up
13 on the Live Meeting here.

14 MR. KATZ: Okay. Good. Thank you.

15 CHAIRMAN KOTELCHUCK: Oh, thank you.

16 MR. KATZ: Good grief. I just think
17 there's a lot of context that can be given that is
18 important for understanding this report, given how
19 different a place we are in the program's, sort of,
20 development than we were with the first report.
21 And, you know, given the very select, you know, the
22 high degree of selectivity with which we sample

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1 cases and all that, too.

2 So that's why -- so Executive Summary,
3 that's just sort of a standard thing that you always
4 want. You want a short version, a very short
5 version for the very hurried reader that you tend
6 to have as audiences as you go up the pole. So
7 first report, context status of the DR at the time,
8 nature of the cases reviewed, et cetera. That's
9 what I'm getting at there.

10 Status of the DR program reviewed in the
11 current report. Just again, just to sort of set
12 them up for understanding the findings that they'll
13 read. And then this C, relationship to concurrent
14 Board review activities, reviews of SEC petitions,
15 Site Profiles, and other DR methodology and data.

16 I don't know how that will turn out or
17 whether you want to keep that at the end of the day.
18 As you all know, we've had lots of discussion and
19 Dr. Melius joined us for some discussions about,
20 sort of, the constant concern that, in a sense, this
21 activity is, you know, is much entangled with what
22 the rest of the Board's review, which also very much

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1 relates to dose reconstruction case quality and so
2 on, the same task.

3 When you're reviewing an SEC petition,
4 how that works out. Or a Site Profile which is the,
5 you know, the machinery for doing a dose
6 reconstruction. Or at least the guidance
7 machinery. So those other, sort of, moving pieces
8 of the Board's review work, you know, aren't
9 directly captured in the case review, but they're
10 certainly relevant to the issue of the quality of
11 dose reconstruction and scientific, you know,
12 standing of the dose reconstruction work. So I
13 just think it, probably on the front end at least,
14 it's worth giving a shot to trying to add some
15 discussion to capture that in narrative at least.
16 And maybe with some statistics, too, on SEC
17 petitions and so on, or maybe some analysis. But
18 I mean, to fill out the picture of where the Board
19 is in its sense on how the dose reconstruction
20 program is going.

21 MEMBER RICHARDSON: Ted, can I ask a
22 question?

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1 MR. KATZ: Yes.

2 MEMBER RICHARDSON: This is David. Am
3 I right that between the first report and this one,
4 the ten-year review was another report?

5 MR. KATZ: Yes. Although that's an
6 internal, that's a NIOSH, I mean, that's really not
7 the Board's business work. In other words, that
8 was an internal NIOSH project, that review.

9 MEMBER RICHARDSON: But sort of
10 provided another major review of, kind of the
11 status of the DR program at some interim period in
12 between that prior report and this one.

13 MR. KATZ: Yes. And that report was
14 not reported to the Secretary. And to the extent
15 that you want to discuss it, I mean, I think it's
16 all fine for you to discuss. Again, my point is
17 just that I think there's more to say than just the
18 case review that you may want to say to the
19 Secretary.

20 That may end up getting too complicated
21 and you may abandon it. But I think it's worth
22 considering on the front end, because if you

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1 recall, with the first report, it took a lot of work
2 just to get that first report done. And that was
3 the simplest of all worlds. So this is
4 complicating things. Is anybody still there?

5 MEMBER MUNN: Somebody is.

6 MR. KATZ: Okay.

7 CHAIRMAN KOTELCHUCK: On mute. I'm
8 both chairing --

9 MEMBER BEACH: I think we're
10 digesting.

11 CHAIRMAN KOTELCHUCK: Yes, we are.
12 Good. I also have a general problem which is to
13 say, I probably live in the noisiest place of any
14 of our staff and Board Members. And so, I keep
15 having to cut myself off onto mute because every
16 time a big truck or fire engine goes by, it messes
17 us up.

18 But yes, we're thinking anyway. Are
19 there suggestions, folks, for -- well, have you
20 finished first?

21 MR. KATZ: So that's with that
22 introductory section.

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1 CHAIRMAN KOTELCHUCK: Okay.

2 MR. KATZ: That covered the
3 introductory section. And I guess you all can
4 ponder that. I mean, I think, at minimum, you
5 could do, in a very summary sense, just discuss the
6 fact that, concurrent with doing these case
7 reviews, you know, there have been X number of
8 petitions that have approved, some of these which
9 affected the sites.

10 And some of these cases, you know, have
11 changed as a result of those, results of those SEC
12 petitions for example, or Site Profile Reviews, et
13 cetera. I think there's something minimal that
14 you could probably say that at least would
15 acknowledge the bigger world of the Board's review
16 process. Okay.

17 The next section: methods. It just, it
18 seems like you always want to explain how you went
19 about your review. So that's all that is intended
20 to cover. And then findings, you know, I think
21 that's self-explanatory.

22 Future review plans. I think that

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1 would tie in. And since it's going to take a little
2 time to get this report done, my thought there is
3 that you would want to tie in and tell the Secretary
4 about future plans as they relate to, you know, the
5 other Work Groups, the Subcommittees. I mean, the
6 Dose Reconstruction Review Methods Work Group --
7 their work, and what the Board finally decides
8 about how to go forward. You may want to capture
9 that in this report, too. It will probably be
10 timely. So that's my thought for future review
11 plans.

12 And then the appendices, you know,
13 would be Rose's nice tables, graphs, the statutory
14 text just to remind, make it easy for the Secretary
15 to see where this comes from, this requirement.
16 And the first report because we'll refer to it so
17 it's probably nice to just make it easy and have
18 that as an appendix. Anyway, those are my
19 thoughts.

20 CHAIRMAN KOTELCHUCK: Well, thanks
21 much. I wasn't sure if I was on, where my mute was.
22 Thanks, Ted. Do folks have comments, further

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1 thoughts, things that we might add that were not
2 covered?

3 MS. BEHLING: This is Kathy Behling.
4 Were you going to consider including any of the
5 blind review of comparisons in this report?

6 CHAIRMAN KOTELCHUCK: Oh absolutely,
7 we must. I assume that when we do case selection
8 and case review procedures -- well in fact,
9 findings. I guess it's actually findings. No, we
10 absolutely, that's one of our most important
11 measures of how well we're doing, that we're
12 consistent.

13 So certainly. And I guess it's
14 probably in findings. Case review procedures will
15 discuss that we do reviews. And then findings,
16 Part A, we will discuss what we found. And we'll
17 talk about those later, of course, today, the
18 remaining blind cases. Other comments or
19 thoughts?

20 MR. CALHOUN: This is Grady. Do you
21 have anything in there about, I didn't see it in
22 what we just reviewed, but do you have anything in

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1 there about the total number of cases reviewed and
2 the total number of them that were actually
3 determined to have caused a reversal in
4 compensation decision? Because there were like
5 two.

6 CHAIRMAN KOTELCHUCK: Yes. Certainly
7 we should mention them.

8 MEMBER CLAWSON: Well, if we're going
9 to get into that kind of a draft or something like
10 that, do we have any that says because of these
11 reviews, how many DR reviews were then changed, or
12 the whole programs have changed because of that
13 information?

14 I understand what Grady's saying but
15 that's, you know -- you guys are doing a marvelous
16 job. There's no question of that. But I do think
17 what you're saying is important. These findings
18 we've had and gone through this whole thing have
19 not, there has not been major players in there to
20 really reverse somebody's compensation or not.

21 But, you know, we can put a lot of stuff
22 in there, in my opinion. But I don't think it's

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1 going to be, I think what Grady's saying would be
2 useful. I do, don't get me wrong. But I just, I
3 don't know. We can put a lot of things in there.

4 CHAIRMAN KOTELCHUCK: Well, certainly
5 we can put in the number flipped in the text and
6 put some emphasis on that.

7 MEMBER CLAWSON: Well, yes. But
8 because of these reviews, how many TBDs have been
9 changed? How many Site Profiles have now been --

10 CHAIRMAN KOTELCHUCK: Yes.

11 MEMBER CLAWSON: Let's take a look at
12 the real big picture. Let's paint the truth, the
13 whole picture.

14 MR. CALHOUN: We've certainly made
15 some changes. And if we think back on -- most of
16 my discussions here, the majority of those changes
17 were made after the case was complete but before
18 it was reviewed. And I agree that this program is
19 very valuable.

20 But our goal has always been to come up
21 with the correct compensation decisions. That's
22 always been our goal. If you just look at the

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1 number of findings, I think it could lead one to
2 believe that there's a lot more that have flipped
3 than possibly have.

4 And just from the top of my head,
5 because these are so important to me, I can think
6 of three cases. One back in the day flipped, or
7 the assertion was that we overdosed somebody and
8 compensated them. But that was based on the fact
9 that we, it was the Director's decision to use an
10 overestimating technique to complete a very, very,
11 very large number of cases to get them out of the
12 queue. That was one. So that one wasn't a
13 mistake. That was the direction that we were
14 given.

15 The second one was a Rocky Flats case
16 where there was, we requested data. Department of
17 Energy did not give us NDRP data. We used the data
18 that was given to us and it was non-comp. But we
19 went back and re-requested the NDRP data. We got
20 it and then we assigned neutron dose. So again,
21 I would say that that one was not a mistake. That
22 was just, we used the data that was available to

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1 us.

2 And there's a third one and I don't
3 recall what that one is. But anyway, those are
4 very, very important to us. I may be wrong and
5 there may be more than that. But I only recall
6 those three and I just don't know the details of
7 the third.

8 MR. KATZ: Well Grady, I mean it sounds
9 like that data -- going back to Dave's question to
10 everyone, what else is missing in terms of data that
11 we need for this report? It seems like all of those
12 cases and what happened there, maybe is information
13 that's needed in writing by the Subcommittee, in
14 writing this report. Right? I mean --

15 CHAIRMAN KOTELCHUCK: I think you're
16 right. In fact, it seems to me if there were three
17 cases, if there are three cases, we should write
18 in detail why each of them, or put it in an appendix
19 so that the Secretary can read exactly what went
20 wrong. And in fact, as indicated by Grady, what
21 went wrong was not our methodological procedure.

22 But in one case, you know, getting, not

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1 being given the right data or not having the right
2 data. In other words, I think it will make -- the
3 fact is that we only have three. That's a very
4 small percentage of the cases that we've reviewed.
5 Or actually, that we analyzed, right?

6 MEMBER CLAWSON: Yes. You better make
7 sure about that number before we proceed.

8 CHAIRMAN KOTELCHUCK: Oh, absolutely.
9 But we should quote the number and then explain what
10 happened in those cases because, in fact, I think
11 it will reflect well on us, not badly. That even
12 the few that were flipped were flipped for reasons
13 that were, essentially, beyond our control, beyond
14 out analysts' control.

15 DR. MAURO: This is John Mauro again.
16 I'm sorry to interrupt like this. Brad mentioned
17 something in terms of the big picture. With the
18 statements that are being made about there have
19 been very few, I agree with, directly related to
20 the DR process. But what comes to mind immediately
21 is like, recently PERs are issued.

22 And the genesis of those PERs may very

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1 well come from the DR process or come from a Site
2 Profile Review process. I can mention, for
3 example, General Steel just went through a PER
4 process where 100 cases were flipped. That was
5 just General Steel.

6 Now the degree to which that story is
7 appropriately told in this particular report is a
8 question I think needs to be answered. Or are we
9 going to limit it? You know, is that part of the
10 story? Because there are many, many reversals as
11 a result of the PER process which, in turn, was
12 triggered by a myriad of processes at work
13 throughout the entire program.

14 And I think that needs to be understood
15 because I wouldn't want to leave the impression
16 that there were very few flips. There have been
17 many, many flips for a variety of reasons.

18 CHAIRMAN KOTELCHUCK: Right. And
19 those -- okay. So those, what you're saying --

20 MR. CALHOUN: I think those are
21 different.

22 CHAIRMAN KOTELCHUCK: Yes they are.

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1 MR. CALHOUN: That is because the GSI
2 claims in particular were based on ongoing
3 discussions between our staff and the Board.

4 DR. MAURO: I agree with you
5 completely. I just wanted to bring that up so that
6 we air it out.

7 MR. CALHOUN: It's like included in the
8 number of SEC claims that were paid because for some
9 reason, the Board said we couldn't do dose
10 reconstruction and we thought we could. I think
11 that this Subcommittee is very targeted on whether
12 or not we made mistakes that were made that caused
13 a change in compensation.

14 What you're talking about are
15 programmatic changes. And they could have been
16 brought about by a variety of things. But I think
17 that they're very, very different.

18 MEMBER MUNN: But what John was talking
19 about, I think, is what Ted was talking about under
20 his Executive Summary list when he talked about the
21 relationship to concurrent Board review activity.

22 MR. KATZ: Right. That's exactly

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1 right, Wanda.

2 MEMBER MUNN: That's where that falls.

3 CHAIRMAN KOTELCHUCK: Good.

4 MR. KATZ: That's right. I mean, I
5 agree with John that I think this broader context,
6 could be touched on to some degree, is important
7 just to give, you know, a more complete account.
8 I'm not differing with Grady on the narrow purpose
9 of the Dose Reconstruction Review Subcommittee's
10 work.

11 But I think this broader context, you
12 know, is important. It also, though, in having
13 this discussion, you can see how it's complicated
14 and it's going to be a hard one to summarize nicely
15 and briefly.

16 CHAIRMAN KOTELCHUCK: Right. And I
17 would now like to ask the nuts-and-bolts question.
18 Who is going to write Findings A? Who is going to
19 write Findings B? Or how do we actually go about
20 writing? Who is going to write the first draft and
21 when? Who is responsible for that?

22 MR. KATZ: Yes, and --

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1 CHAIRMAN KOTELCHUCK: I'm not sure
2 it's us.

3 MR. KATZ: Well, yes. Let me note
4 that, that it's really not approved with Federal
5 Advisory Committees, in general. And this one I
6 would say is more important than any. But staff
7 including contractors should not be writing report
8 language. So this really is something that falls
9 to the members to do.

10 CHAIRMAN KOTELCHUCK: Okay.

11 MEMBER CLAWSON: Enjoy yourself, Dave,
12 and make it brief and short.

13 CHAIRMAN KOTELCHUCK: Right, right.
14 Hey, wait a minute. I think we better consult Jim
15 on this. No, but obviously we have a role to play.
16 And if I'm Chair of the Committee, I've got to put
17 my shoulder to the wheel or whatever they say.

18 So I'll certainly help -- hold it,
19 sorry. But let's, maybe we should talk altogether
20 about who should be writing. I certainly, if I'm
21 going to do some work then I'm glad to. Others
22 should be doing up -- and particularly, for

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1 example, in the introduction.

2 I think some of our more senior Board
3 members may be the most appropriate folks who
4 understand many of these issues in greater depth.
5 And that's certainly three of, well, that's quite
6 a few of our Members, four of our Members. Well,
7 if staff is not supposed to write it, I don't know,
8 Ted, if I can say to you, do you have some good
9 ideas? Or what other Board Members think how we
10 should do this. I'm clearly not going to write the
11 whole thing. And clearly, I will write parts of
12 it, major parts.

13 MR. KATZ: Yes, I think it's not a
14 problem, Dave, for folks to comment on things that
15 are drafted and to provide bullet points on
16 matters, factual matters and all that kind of
17 thing. But there's, because FACA committees are
18 supposed to be independent of the agency, and the
19 Agency is it's staff, including its contractors,
20 it's just, the actual writing and construction
21 really has to be done by members.

22 CHAIRMAN KOTELCHUCK: Right. Maybe

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1 the right -- I had not thought this through much
2 other than I knew it was coming up sooner or later,
3 that we've actually got to write this now. I think
4 we have a nice outline, a good outline. And we've
5 talked it about a little bit.

6 Why don't I speak with Jim Melius, who
7 is our Chair of the Board, and look to his
8 suggestions, both in terms of who on our committee,
9 from the Subcommittee should be working on this in
10 addition to myself, and also what other Board
11 members, what role they should play?

12 Because clearly, there are a whole lot
13 of issues that are things like our Site Profiles,
14 et cetera that others could and should be involved
15 with. So is it appropriate to say that I will speak
16 to Jim and think with him about how we might put
17 this together, write a draft?

18 MEMBER MUNN: Sounds reasonable to me.

19 CHAIRMAN KOTELCHUCK: Okay.

20 MR. KATZ: And Dave, I have some ideas
21 administratively how we can -- if this is an
22 overwhelming task for you administratively, I may

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1 be able to get you help in another way to sort of
2 supplement the Subcommittee's membership just for
3 this task, ad hoc members. So I'll talk with you
4 and Jim about that.

5 CHAIRMAN KOTELCHUCK: Excellent. Oh,
6 that would be helpful. Okay. Well then, if that,
7 I think we've handled --

8 MEMBER BEACH: Dave?

9 CHAIRMAN KOTELCHUCK: Yes.

10 MEMBER BEACH: Dave, before you move
11 on, this is Josie.

12 CHAIRMAN KOTELCHUCK: Yes.

13 MEMBER BEACH: So this needs to be
14 pretty timely, too. So just a suggestion on time
15 frame on that.

16 CHAIRMAN KOTELCHUCK: Good.

17 MEMBER BEACH: It probably shouldn't
18 linger for too long.

19 CHAIRMAN KOTELCHUCK: Right. In
20 fact, Ted, you're probably the most knowledgeable
21 of us in terms of when we should get this to the
22 Secretary.

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1 MR. KATZ: Oh there's no, I mean
2 there's no answer to that, Dave. I mean, we wanted
3 to do this, you know, a couple years ago.

4 CHAIRMAN KOTELCHUCK: Right.

5 MR. KATZ: There's really no answer to
6 that. We do it, we get it done when we get it done
7 and then it'll go.

8 CHAIRMAN KOTELCHUCK: Okay.

9 MR. KATZ: We don't really worry about
10 the should be of it.

11 CHAIRMAN KOTELCHUCK: Right. I work
12 better on deadlines. But maybe I'll let Jim say,
13 okay, we should have it done by January 1st or
14 whatever.

15 (Laughter.)

16 CHAIRMAN KOTELCHUCK: Is that a joke?

17 MR. KATZ: I think that's very
18 manageable. We ought to have it done before the
19 new year. I mean, we want to get it done earlier
20 than that and actually get it to the Board. But
21 you know, I mean realistically, obviously we're not
22 going to get it done before the November Board

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1 meeting, I think.

2 CHAIRMAN KOTELCHUCK: That's right.

3 MR. KATZ: Unless, you know, unless you
4 really have some time to sit down and write. And
5 if that's the case, then you know, the rest of the
6 Board's not going to get to it. And this is only,
7 sort of, advisory to the rest of the Board anyway.

8 CHAIRMAN KOTELCHUCK: Right.

9 MR. KATZ: The rest of the Board
10 actually decides what the letter will be.

11 CHAIRMAN KOTELCHUCK: Right.

12 MR. KATZ: You know, the next meeting
13 then is in March, I believe.

14 CHAIRMAN KOTELCHUCK: Yes, that's
15 right. You're right.

16 MR. KATZ: That gives you some sort of
17 time frame --

18 CHAIRMAN KOTELCHUCK: They're not
19 going to have it done by November.

20 MR. KATZ: The Board could have it
21 early enough that the Board can actually think
22 about it independently and give comments before the

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1 March Board meeting. And then get it done and
2 finalized at the March Board meeting. I think
3 that's probably a realistic time frame.

4 CHAIRMAN KOTELCHUCK: Well then, I
5 think that's a way to look at it is, let's get a
6 draft out by the end of the year. And give the
7 folks -- I think that's doable. And then we'll
8 have folks go over it and either approve it or
9 approve it with changes or make changes at the March
10 meeting.

11 Sounds good. And thanks, Josie,
12 you're right. Time frame is important. So
13 anything else with respect to this item on our
14 agenda? I think not. I think we're finished.

15 MR. CALHOUN: This is Grady. I just
16 want to give you one of my go-dos real quick that
17 I got done. The total number, and I'll get more
18 details, but the total number of female energy
19 employees. That's different than claimants
20 because claimants don't have to have worked there;
21 they could be survivors. But the total number of
22 energy employees from a percentage standpoint is

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1 13.64 percent women in our total pool.

2 CHAIRMAN KOTELCHUCK: Okay. Well,
3 that's --

4 MR. CALHOUN: I'll work on that by site
5 as you requested but that's the total.

6 CHAIRMAN KOTELCHUCK: Well that's very
7 interesting. Could you explain again? There was
8 a little interference on my line. What defines the
9 females? They're not survivors.

10 MR. CALHOUN: Yes. They're not
11 survivors --

12 CHAIRMAN KOTELCHUCK: These are energy
13 employees.

14 MR. CALHOUN: People use the term
15 claimant. I think we all know what we want to mean
16 by that but a claimant could be a survivor.

17 CHAIRMAN KOTELCHUCK: That's right.
18 So 13 actually is a larger percentage than I
19 thought. And it's a larger percentage than we've
20 been reviewing recently, I mean, I think of the case
21 selections.

22 MR. CALHOUN: It's roughly 6,000 women

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1 out of roughly 44,000 claims.

2 CHAIRMAN KOTELCHUCK: Okay. Thank
3 you very much. That's an interesting number.

4 MEMBER MUNN: Six thousand employees,
5 right?

6 CHAIRMAN KOTELCHUCK: Pardon?

7 MEMBER MUNN: Six thousand employees,
8 claimants.

9 CHAIRMAN KOTELCHUCK: Claimants.

10 MR. CALHOUN: Wanda, that's what I
11 would say. Yes, 6,008 women employees who have
12 cancer and who were in our program out of 44,035
13 total.

14 MEMBER MUNN: Okay. Sure doesn't seem
15 like that when we're looking at case selections and
16 trying to find.

17 CHAIRMAN KOTELCHUCK: No it doesn't.
18 And that's why it's a surprisingly large number.

19 MEMBER RICHARDSON: Hey, Grady? This
20 is David Richardson.

21 MR. CALHOUN: Yes.

22 MEMBER RICHARDSON: Could I ask you for

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1 one more thing at some point?

2 MR. CALHOUN: You can absolutely ask
3 for whatever you want.

4 MEMBER RICHARDSON: Yes. Well, is
5 there a way to break that down by, let's say like,
6 five-year intervals in terms of when the claims
7 came in? Are there --

8 MR. CALHOUN: Is when the claims came
9 in as important as when they worked?

10 MEMBER RICHARDSON: Yes. Like, is
11 there a trajectory of there being more female
12 claims in recent years? Like, is that different
13 than it was in the past? My question is sort of,
14 are we -- my intuition is that we are looking at
15 a trajectory in which women will become a more
16 important part of the claimant pool.

17 MR. CALHOUN: I would agree with that.

18 MEMBER RICHARDSON: And it would be
19 interesting to see that.

20 MR. CALHOUN: Yes. I think I can.
21 Okay. So you're just saying as a function of
22 five-year intervals.

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1 MEMBER RICHARDSON: Yes.

2 MR. CALHOUN: As we received the
3 claims.

4 CHAIRMAN KOTELCHUCK: And that's for
5 making projections for the future. Certainly our
6 case selections for recent sets have not had 15
7 percent, 13 percent women. I don't think they've
8 had ten percent women.

9 MR. KATZ: That's my guess, too, Dave.

10 MR. CALHOUN: Now the one thing that,
11 you know, we're not going to do anything different
12 based on that. So this is just information that
13 you guys might be interested in.

14 CHAIRMAN KOTELCHUCK: Well, it will
15 affect the goals for case selection in the future.

16 MR. CALHOUN: Yes. I mean, yes,
17 because we all do our dose reconstructions with
18 changing processes. I think they can do anything
19 with our -- we've got all these numbers here. We
20 certainly should be able to do that.

21 CHAIRMAN KOTELCHUCK: That's good.
22 This is very good. Thank you for the data and

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1 thanks for the observation on that. Now, it's
2 12:00 East Coast time and we're ready to go into
3 the case reviews issue resolution. And in
4 particular, we have a relatively few, three cases
5 according to my notes that are still open from ten
6 to thirteen.

7 And then we have the blind cases which
8 -- how many blind cases are there remaining to be
9 reviewed?

10 MS. GOGLIOTTI: Sorry, Kathy.

11 MS. BEHLING: I'm sorry, Rose. This
12 is Kathy Behling. If we are still going to discuss
13 the two initial cases plus I think there's three
14 from the twentieth set. So it's a total of five.

15 CHAIRMAN KOTELCHUCK: Okay. Well,
16 that's are fairly substantial number. Do we want
17 to just -- I'm figuring we that we should go another
18 half, if people are open to go another half hour.
19 Or should we take a comfort and lunch break right
20 now?

21 MEMBER BEACH: Dave, this is Josie. I
22 wonder if this would be a good time to have the

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1 discussion that Grady brought up earlier this
2 morning. Or does that fit somewhere else better?

3 CHAIRMAN KOTELCHUCK: Oh my goodness.
4 No. Thank you. We said we'd do that and I forgot
5 to come back to it. So this is the time, before
6 we go on to the case reviews. Thank you for
7 reminding me. So can we go on, folks?

8 I mean, this is the point people may
9 well want to take a comfort break now and come back.
10 Or you may want to take lunch. But we do have the
11 discussion with Grady and Rose for the benefit of
12 the Subcommittee Members.

13 MEMBER CLAWSON: This is Brad. I'm
14 good.

15 CHAIRMAN KOTELCHUCK: I'm good.

16 MEMBER BEACH: I'm good.

17 CHAIRMAN KOTELCHUCK: Okay. Let's go
18 back to that discussion. There was a rich
19 discussion between Grady and Rose on the counts in
20 the tables. And perhaps people -- maybe Rose,
21 would you like to summarize why you didn't change
22 the graphs that you had presented earlier today?

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1 That Grady had requested, the changes that Grady
2 had requested.

3 MS. GOGLIOTTI: Sure.

4 CHAIRMAN KOTELCHUCK: Okay. Good.

5 MS. GOGLIOTTI: The findings that are
6 in my Table 3, I believe it is --

7 CHAIRMAN KOTELCHUCK: Could you put it
8 up?

9 MS. GOGLIOTTI: Yes. Here, let me.

10 CHAIRMAN KOTELCHUCK: Thanks.

11 MS. GOGLIOTTI: Okay. These findings
12 are the findings as they were discussed in the
13 Board. I made no modifications other than, there
14 were four that SC&A did deem were inappropriately
15 made and we did remove those. But we did not remove
16 findings that Grady pointed out, that he disagrees
17 should not have been there.

18 Now, it's our understanding that the
19 findings are the Board's findings. And so, for me
20 to go in and select findings that are wrong feels
21 disingenuous. Now, we can go ahead and look at
22 them if that is what the Subcommittee desires. I

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1 did take an initial crack at it just to see.

2 And I did find five percent, around,
3 that we concede are probably incorrect. But then,
4 I had a proposed solution that I think might resolve
5 some of the issues at least. For a lot of findings,
6 we weren't necessarily correct--

7 CHAIRMAN KOTELCHUCK: If I may
8 interrupt, Rose.

9 MS. GOGLIOTTI: Yes.

10 CHAIRMAN KOTELCHUCK: Bear in mind
11 that as we're talking, it was Grady who made the
12 initial objection to this set of findings. And
13 maybe it would be better first if Grady said what's
14 wrong and then you respond by talking about what
15 you think would be a good solution.

16 MS. GOGLIOTTI: Okay.

17 CHAIRMAN KOTELCHUCK: Would that be
18 okay?

19 MEMBER MUNN: Yes. And one other
20 thing, please, Rose, your voice is so soft that I
21 can hear you but barely. I'm straining my ears to
22 get your voice. If you can, if it's a matter of

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1 distance from your mic --

2 MS. GOGLIOTTI: I've got the phone
3 directly -- I'll just try and talk louder.

4 MEMBER MUNN: Oh thanks. That's much
5 appreciated. Sorry about that.

6 CHAIRMAN KOTELCHUCK: Good. Grady?

7 MR. CALHOUN: Yes. Basically what I
8 started thinking about when I was looking through
9 these is, during the course of our evaluations, we
10 have a finding written down, and then we all kind
11 of come to the agreement that, well it actually was
12 done according to that procedure. And we just
13 close it and move on.

14 I would prefer that, if there was really
15 nothing wrong, that it doesn't get taken off of the
16 --

17 CHAIRMAN KOTELCHUCK: I'm having a lot
18 of break-ups. Are other people having them?

19 MR. KATZ: Yes. I think we're all
20 hearing it. Somebody, I don't know, everybody
21 else try muting your phones. I don't know what
22 that's coming from.

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1 CHAIRMAN KOTELCHUCK: Me neither.
2 Okay. I'll go back on mute.

3 MEMBER BEACH: Terrible beeping sound
4 somewhere.

5 MR. CALHOUN: Okay. So anyway,
6 basically what happened is, you know, during the
7 course of our discussions, we find that these
8 really aren't findings and we just close them and
9 move on. And so, I'd like to take credit for it
10 but I didn't, I can't. I asked Scott to do it and
11 he did a very quick look of the tenth to thirteenth
12 sets.

13 I sent examples over of the cases that
14 we believe, that we all, at the end of them, said
15 hey, there's really nothing wrong with that. It
16 was just a misunderstanding in the review.
17 Because this is, kind of, a report card of how we're
18 doing, I would like to get those taken off in
19 retrospect.

20 But I would also think that, as we
21 review these now, to make it easier, we just say,
22 you know, this really wasn't a finding, let's take

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1 it off.

2 MEMBER CLAWSON: You know, Grady, this
3 is Brad. I thought we had this discussion about
4 three to four years ago when we were going through
5 this process, when we were looking at how we were
6 ranking these. I was understanding what you said
7 in your memo there. But we've been through this
8 one a while back.

9 We felt that we had good enough paper
10 trails to be able to show all of this. But we were
11 still leaving them --

12 (Telephonic interference.)

13 MR. CALHOUN: That must be Brad because
14 as soon as he started, it started the popping and
15 stuff. We do but no one who is reading this report
16 understands that. So I mean, I believe that if
17 something is flagged as a finding and we decide that
18 nothing was wrong, it shouldn't be recorded as
19 such.

20 MR. KATZ: I mean, that's correct,
21 Grady. I mean, I don't think there's any other
22 side to the debate on that. I thought we were, I

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1 mean we have been tracking those in the
2 discussions. And I thought and I assumed, I don't
3 think I was entirely correct that these were
4 actually being inputted into the summary tables.

5 And we've had a discussion about this.
6 Dave and I had a discussion with Rose about going
7 back through those tables and then correcting for
8 those decisions. And I think Rose did some of
9 that. I'm not sure but that was what the direction
10 Rose was headed.

11 And then she came out with the report
12 and then I heard about your, Grady, your objections
13 that there were more of those cases that hadn't
14 been, the corrections hadn't been reflected. So
15 that's as much as I know about it. Rose can maybe
16 shed more light on the distinction between what
17 Dave and I discussed with Rose and what actually
18 came out of the pipe.

19 MR. CALHOUN: And I think what, next
20 step what may actually have to happen is that you
21 take a look at the, at these sort of one, two, three,
22 four cases and it looks like five different

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1 findings of those cases total, and see if I'm wrong
2 somehow. I mean, some of these, if you look at the
3 closing things, this is NIOSH's text, TBD
4 indicates, you know, this is how it was supposed
5 to be.

6 MR. KATZ: Those were the cases that
7 Rose was going to correct the statistics for.
8 Rose, but I don't know what's gone on on either side
9 here. So maybe we could give Rose a chance to talk
10 about it.

11 MS. GOGLIOTTI: Okay. Well, when we
12 went through and did our initial cumulative ranking
13 for the scoring for, you know, starting that
14 cumulative rank, total rank. And I had Nicole flag
15 me with these, the findings that she thought were
16 very wrong. And those were the ones that we
17 removed.

18 Now, these are just the four -- I'm
19 sorry. I still have interference. I don't know
20 if you can even hear me.

21 MR. KATZ: I don't know if we all need
22 to dial back in but this is pretty terrible. So

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1 if everybody is muted and it's still making this
2 noise, then we should just all dial back in to the
3 number.

4 CHAIRMAN KOTELCHUCK: That sounds like
5 a good idea.

6 MR. KATZ: Dial back in.

7 CHAIRMAN KOTELCHUCK: Okay.

8 (Whereupon, the above-entitled matter
9 went off the record at 12:13 p.m. and resumed at
10 12:15 p.m.)

11 MR. KATZ: So Rose, you want to give it
12 another shot?

13 MS. GOGLIOTTI: Okay. So Nicole did
14 pull four findings that we felt were, for whatever
15 reason, were incorrect and were very incorrect.
16 Now the question is, when we looked at Grady's
17 email, we disagreed that many of those were valid
18 findings.

19 Perhaps we were wrong but there was
20 substantial discussion. NIOSH may have agreed to
21 revise something because it was clear that there
22 was confusing in the text. And it's very difficult

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1 to read that in the matrices. And it's very
2 difficult to make a judgment on right or wrong.

3 I feel at least, that most of these
4 findings fall into more of a gray category. But
5 I did have a proposed solution that I hope will
6 resolve things. Ultimately, it's up to the
7 Subcommittee. I was proposing we add another
8 category to this and a no impact category or combine
9 a no impact category slash low income, or low
10 impact. Sorry.

11 And those would be the findings that we
12 might not have been correct on but there was lengthy
13 discussion to determine if we were correct. A lot
14 of times there were White Papers generated, these
15 discussions went over multiple meetings, they were
16 professional judgment calls, suggested findings.

17 Or even in the earlier case sets,
18 because we didn't have the option for observations,
19 a lot of the findings were more observations. And
20 so, they were clarifications of what we needed, the
21 information to complete our dose reconstruction
22 reviews. If we were to add another category, 30

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1 percent of these findings would move over into that
2 category.

3 MR. CALHOUN: Let me just, and I don't
4 want to argue too much here but let's just use one
5 for example here. I'm looking at one right now and
6 the finding was that we neglected to use the actual
7 dosimetry data that was available. Well,
8 the case was done before the data was ever
9 identified. We never got it. We asked for it, we
10 didn't get it. And when we did get it, we've got
11 a program in place that automatically captures
12 that. So, the finding that we neglected to use the
13 actual data is false because there was no data.

14 So that one, to me, is not arguable. It
15 can't be a finding because you're judging us
16 against something that wasn't even there. So
17 that's one of the examples that I want to use.

18 CHAIRMAN KOTELCHUCK: Grady, it seems
19 to me that you're suggesting that the large number
20 of findings, what you would consider the inflated
21 number of findings, reflects poorly on your team.
22 And I don't see that in terms of, it may reflect

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1 SC&A being super, I mean, they're invested in
2 trying to find as many problems as they can to
3 ferret out what are real problems. Right?

4 I mean, there are misunderstandings.
5 But, in a sense, they're doing their job by finding
6 a lot of findings. You're, in a sense, saying
7 you're doing your job. You're going to try to make
8 sure they don't have too many findings. I don't
9 think it reflects on your group. It also reflects
10 on SC&A and the interaction between the two.

11 MR. CALHOUN: It certainly affects our
12 group because it's saying we're wrong when we're
13 not.

14 CHAIRMAN KOTELCHUCK: And you're not.
15 Absolutely --

16 MR. CALHOUN: So they should be
17 eliminated. I mean, that one in particular. And
18 if we have to go back and look at some of these,
19 we will. But it certainly does reflect on us
20 negatively because they're not findings. You
21 can't classify something as a finding if it's not
22 a finding.

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1 It may be an observation if something
2 wasn't clear. That's not a finding. A finding is
3 when we fail to follow the procedure adequately.

4 CHAIRMAN KOTELCHUCK: But --

5 MR. CALHOUN: It does reflect poorly on
6 us and I don't particularly like it. I know from
7 going forward, we could certainly do a better job
8 and say, hey, this wasn't a finding. But when this
9 report comes out, the people that are reading this
10 report have no idea of all of our interactions and
11 how this program works, at least a lot of them
12 won't.

13 They will just be looking at how many
14 findings are there in these cases. And if there's
15 a number of them that aren't findings, it's just
16 incorrect information.

17 MR. STIVER: This is John Stiver. Can
18 I jump in for just a minute here? That finding that
19 Grady used as an example would be one that would
20 be withdrawn, at least in my opinion, it should have
21 been withdrawn if it was a situation where we ding
22 them on not using the data when the data wasn't even

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1 available yet. There are others --

2 MS. GOGLIOTTI: The problem is that we
3 don't have access to that when the dates that these
4 --

5 MR. STIVER: Yes. There's another
6 category, and it kind of gets back to the whole
7 historic evolution of the program. And these were
8 the ones where we just didn't know what, after
9 putting in our due diligence, we just didn't know
10 what NIOSH was doing and we couldn't figure it out.

11 Back during that period, you know, when
12 most of these cases were done, it was kind of a
13 commonly accepted practice to make those findings
14 and then resolve them and get clarification in the
15 Subcommittee environment, in that forum. And then
16 those would then be resolved that way. But they
17 still were listed down as findings.

18 And those I can understand, you know,
19 Grady can see, I understand his position. That the
20 cursory observer is going to think that those are
21 actual deficiencies in the program when in fact
22 they weren't. So I personally wouldn't have any

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1 problem in taking those out of the statistics.

2 But then, at least, having some
3 narrative discussion as to why. You know, just to
4 explain that, you know, not only was this historic,
5 the way things were done at the time. But also,
6 it kind of fostered an improvement in the
7 communication and transparency. And also on the
8 part of NIOSH and the ability of SC&A to, you know,
9 get the tools and techniques and so forth and have
10 a better understanding of what NIOSH is doing.

11 So it actually helped improved the
12 program. So we don't want to really lose that in
13 the letter. But, you know, I can see taking those
14 types of findings out of statistics so it doesn't
15 kind of distort the whole picture.

16 MR. KATZ: I want to, what Stiver just
17 said, John just said, I mean, you could have a
18 section, you could add in the statistics on
19 observations, pile those in with the other
20 observations that were already categorized as
21 observations and have that narrative discussion.

22 I mean, you know, I mean part of the

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1 clarification of course is mostly an internal
2 interest, you know, inside baseball thing.
3 Because it makes it easier for you guys to audit,
4 you know, an the transparency versus it's not
5 really making anything easier for the claimants per
6 se. But there have been a lot of
7 improvements that have made it more
8 straightforward and easy and thorough for you to
9 audit. I would agree with that.

10 MEMBER CLAWSON: This is Brad. Can I
11 just speak one minute? You know, as I've been
12 sitting here looking at all the discussions we've
13 had on all the process, we've got SC&A looking at
14 this as a process from their view. We've got Grady
15 looking at it from NIOSH's view.

16 And one thing to remember is that part
17 of this is what this is being for the Board. And
18 this is so that we can track this. We're the ones
19 that are responsible to put forth this letter. I
20 will be the first, Grady, to say that I believe that
21 NIOSH, with what they have had, has done a
22 remarkable job.

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1 But also too, the data here, especially
2 the one that you just spoke about, here's my point
3 of view on that one. No, I think that is a finding.
4 And the reason why I feel it is because this dose
5 reconstruction was done and it didn't have the
6 right information.

7 Now, later on that did come in, that
8 information did come in. But when we reviewed
9 this, it wasn't there. So in my point of view, and
10 I want to emphasize this because every one of us
11 has a different perspective that we're looking at
12 this.

13 But I want especially the Board Members
14 to remember that this is our information. We are
15 the ones, same as Grady is responsible for, you
16 know, looking at these findings and thinking it's
17 real bad. We are also the Board and we have been
18 tasked, this is our responsibility to be able to
19 put forth this letter.

20 And all this information that we have
21 will come into it. And I want it to be as
22 transparent and as clear as everything is in there.

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1 Do I see your point of it? A hundred percent. I
2 really do. But I'm looking at maybe a little bit
3 bigger picture of what we're tasked to do, what
4 we're putting our name on to be able to send to the
5 Secretary.

6 MR. CALHOUN: If you've ever worked in
7 a QA program though, or QC program, that's not a
8 finding.

9 MEMBER CLAWSON: What's that?

10 MR. CALHOUN: It's just not a finding,
11 that particular one.

12 MEMBER CLAWSON: Oh, because the QA
13 didn't work? I beg to differ. If your QA is
14 falling, I will tell you right now, then you've got
15 problems.

16 MR. CALHOUN: That's not, you can't
17 expect somebody to do something with something they
18 don't have. I'm not going to argue that one
19 because that one's crystal clear.

20 MEMBER CLAWSON: Well Grady, you know,
21 I've said this from the beginning and I'm so glad
22 that you brought that up. If you don't have the

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1 right data, then you don't have the data and you
2 can't do it. So why is it being done if you don't
3 have the data? Bottom line, crystal clear finding
4 to me.

5 But I also, in the same sense, it is not
6 -- I see your point. I want you to understand that.
7 That that's not a finding against NIOSH on this.
8 You can only deal with what you have. This is one
9 of the things that I've brought up numerous times.
10 If we don't have the sufficient data and everything
11 else, you can't do it.

12 And this is a perfect example of what
13 I've said for years. Now all of the sudden the data
14 comes in, okay, now it's okay, we can do it. But
15 that's not a finding against us. Well, how many
16 of these were done in that sense?

17 You know, we're sampling a small
18 section of this and find stuff like this. It does
19 bother me. Makes you wonder what is the real big
20 picture on that.

21 MEMBER BEACH: This is Josie. Dave,
22 if I may.

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1 CHAIRMAN KOTELCHUCK: Yes.

2 MEMBER BEACH: Rose, you mentioned
3 adding a column. That seemed like a reasonable
4 suggestion to me. Did anybody else have any
5 thoughts on that?

6 MEMBER CLAWSON: No. You know what?
7 I have no problem with this. And we discussed this
8 several years ago. This is how we kind of --
9 because SC&A was looking at this same problem of
10 how do we categorize these? And if I remember the
11 communications right, I believe it was John Mauro
12 that was involved with this.

13 Was that we felt that we, you know, we
14 were covering this with sufficient information and
15 going forth with it. I can understand, you know,
16 I look at this 670 and I'm thinking holy cow.
17 That's nothing, to tell you the truth.

18 But looking at it from Grady's point,
19 it looks really terrible. Looking at it from
20 SC&A's point, this is the information we have. But
21 what are we going to do, Josie, for the past?
22 Because in the future, going on, I think that's

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1 going to be fabulous. But what are we going to do
2 with this?

3 MS. GOGLIOTTI: Now we could
4 recategorize these here into low-impact or
5 no-impact findings.

6 CHAIRMAN KOTELCHUCK: Yes. We could
7 certainly, in the future, be a lot more clear for
8 sets 14 on as to whether something should be a
9 finding or an observation. Certainly I did not see
10 the significance of that and the impact when I first
11 took over as Chair. And I don't, I feel like the
12 Subcommittee did not try to say, no, this shouldn't
13 be a finding; it's an observation.

14 Recently we started doing that. But
15 it's pretty hard to go back for ten through thirteen
16 and recreate it.

17 MEMBER CLAWSON: Well no, I think this
18 is what Doug tried to bring up to us later on when
19 he was trying recategorize some of these.

20 CHAIRMAN KOTELCHUCK: Yes. Later he
21 did. We did do that. But I don't think we started
22 all the way back at ten.

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1 MEMBER CLAWSON: No, and that's my
2 point.

3 CHAIRMAN KOTELCHUCK: Yes.

4 MEMBER CLAWSON: Is how are we going to
5 be able to go back to all of these? Because I do
6 agree with Grady. There's some of these that are
7 in here that, you know what, it was a problem that,
8 for one, that SC&A couldn't get access to the tools
9 the other group had. And that was the only
10 problem. And those weren't a finding.

11 CHAIRMAN KOTELCHUCK: Well, we do have
12 a record of that data. I hate to think about it
13 but I've been going over those transcripts for a
14 couple of years now. And in the transcript, we can
15 see the discussion that went on. One might be able
16 to tease out whether findings should be an
17 observation or vice versa. But that's still a hell
18 of a job.

19 MEMBER CLAWSON: You're talking a
20 monumental job.

21 CHAIRMAN KOTELCHUCK: I think it is.
22 Yes.

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1 MEMBER CLAWSON: The whole thing that,
2 because this is what it is, this is what we came
3 into. This is how we went through the process. Do
4 I believe that we should have changed these
5 findings? Yes, I should have -- I feel that we
6 should have.

7 And I believe that we were getting,
8 feedback from both sides, you know, of how do we do
9 this? You know, what is the proper way to be able
10 to do this? Because I remember several
11 conversations with Doug on this of, you know, how
12 do we handle this? Because he was right up front.
13 But the whole thing is to be able to go back and
14 to be able to pull all these out.

15 MR. KATZ: This is Ted. I mean, Rose
16 has the universe of them because she mentioned it
17 and she gave you a statistic on it. What I had just
18 suggested is -- and I agree with Rose. Some of them
19 are gray-area things where it's a matter of
20 judgment and it was really clear. But the
21 Subcommittee basically said no, never mind with
22 this because, you know, it's not a big deal.

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1 And I agree with Rose for those ones.
2 Those, I think, belong in the low-impact bucket.
3 But I do also agree with Grady that the ones where
4 the Subcommittee pretty clearly said, we agree with
5 NIOSH at the end of the day, those should just be
6 thrown in the observation bucket because they're
7 not findings in the audit world sense and in the
8 QA world sense, which is the sense that most other
9 people that read this would understand findings.

10 You know, that's how they would think
11 about them. They would think of them as low-impact
12 defects. And it's unfair to call it a defect if
13 the Subcommittee itself said, that's not a defect.
14 So I mean, I think for proper accounting, those ones
15 should be pared out.

16 You know, the alternative is to have a
17 discussion about what a finding is on the front end
18 and be clear that findings aren't necessarily
19 defects. You can go at it that way too. That's
20 the other side of the coin.

21 CHAIRMAN KOTELCHUCK: Ted, how could
22 we come to some resolution on the findings going

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1 into observations?

2 MR. KATZ: Well, I mean, Rose has them.
3 I think I don't know how much detail she has on each
4 of them. But she gave us the statistic of 30
5 percent or whatever it is. And if she could
6 distinguish between those where the Subcommittee
7 simply said, we agree with NIOSH versus those where
8 the Subcommittee said, no never mind, we don't need
9 to fool with this any longer. She could just split
10 them that way.

11 CHAIRMAN KOTELCHUCK: Well let me ask
12 you this. I think there's a conflict, if you will,
13 a conflict of interest between the NIOSH group and
14 SC&A on this. Is it possible for Grady to do the
15 same thing and then have them compare?

16 MR. KATZ: Yes.

17 CHAIRMAN KOTELCHUCK: Then why don't
18 we do that? That will resolve a lot of the problem.
19 Although there's still the issue of, you know,
20 there will be a debate. Because, just as Brad
21 said, you know, he would consider the example that
22 Grady gave a finding.

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1 MR. KATZ: Yes. But I mean, Brad
2 didn't go back and review the transcript where that
3 one was discussed. But I mean, if that one was one
4 where the Subcommittee actually agreed, then it's
5 not really a debate any longer because the
6 Subcommittee spoke on it.

7 And I think, it's my recollection over
8 these years, the Subcommittee has been pretty clear
9 at the end of the day where they agreed, where they
10 disagreed.

11 CHAIRMAN KOTELCHUCK: Yes.

12 MR. KATZ: Or where they said no, never
13 mind. Because I remember the no never minds, too.
14 And again, I would credit the no, never minds as
15 findings and the others as observations. I would
16 just say let them give it a shot and exchange
17 information, see if we can't resolve this. And
18 everyone will be happy if we can.

19 CHAIRMAN KOTELCHUCK: Would that be,
20 how would that sound?

21 MEMBER CLAWSON: Let me ask you this.
22 Who is going to make the ultimate decision then?

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1 Because --

2 MR. KATZ: Well let's --

3 MEMBER CLAWSON: You're talking about
4 conflict of interest here.

5 MR. KATZ: No I'm saying let the two
6 parties both do it. And let's see if they actually
7 disagree at the end of the day before we worry about
8 conflict of interest. Because the Subcommittee
9 can decide, again, the Subcommittee transcripts
10 are really clear. So there's actually the facts.
11 You don't have to -- it's no subjective judgment
12 here.

13 CHAIRMAN KOTELCHUCK: If they can go
14 down to a limited number, if they can agree on a
15 lot of the cases -- First, in answer to your
16 question, the Subcommittee makes the decision.

17 MR. KATZ: Right.

18 CHAIRMAN KOTELCHUCK: But if they can
19 narrow down the gap, if there are not a lot of
20 problems, differences between them, we can then go
21 back to the transcript. I just don't know how many
22 there would be. I mean, the transcripts will have

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1 it.

2 MS. GOGLIOTTI: There would be a lot if
3 we compare values.

4 CHAIRMAN KOTELCHUCK: Yes. Could I
5 suggest that, as you have these conversations,
6 would it make any sense to have you cc me and Ted,
7 or the whole Committee? Although I don't think
8 that's probably useful. But could there be, I
9 mean, should any of the rest of us look in on this
10 as you talk back and forth?

11 MR. KATZ: I absolutely think that they
12 should at least copy you and me, Dave the Chair,
13 and me for DFO, on the correspondence back and
14 forth. Yes.

15 MR. CALHOUN: Okay. And I would think
16 too, that you don't need to go back to the
17 transcripts right away. I think that you can glean
18 a lot just from looking at the matrices

19 CHAIRMAN KOTELCHUCK: Yes, exactly.
20 That's why I'm saying no. You and Rose will look
21 at them. You'll go over the review and you'll see
22 where you agree and disagree. And then, if there

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1 are a relatively small number, we can go back to
2 the transcript. But we can't, going back to the
3 transcript for all of them is, again, a monumental
4 job.

5 MR. CALHOUN: Right.

6 DR. MAURO: Dr. Kotelchuck, this is
7 John Mauro. I do have one question that I think
8 would greatly expedite this.

9 CHAIRMAN KOTELCHUCK: Okay.

10 DR. MAURO: Many, many of the low
11 findings have to do with the fact that the
12 information that was -- it's a different category
13 than the example we just had. The information that
14 was contained in the DR Report and its supporting
15 documentation did not have all the information we
16 need. The explanation of the basis or rationale
17 wasn't there.

18 So as a result, we were in a position
19 where we could not check the numbers. And during
20 the course of the issues resolution process, more
21 information was provided which said, oh no, this
22 is what we assumed, we did this and here's the

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1 reason why. And at the end of the process, we all
2 understood exactly what they did and we agreed yes,
3 that you did it correctly.

4 Now, here's my question. The fact that
5 there is a DR Report that does not have sufficient
6 information in it that would allow an independent
7 person to check the number, is that a finding? If
8 not, then I think a lot of these go away.

9 If that is a finding, the report itself
10 has a -- let's call it a deficiency in that it lacks
11 clarity and completeness to allow a person to
12 independently check in. If you feel that, in the
13 end after you go through the process, everything
14 is okay and that should not be a finding, it's
15 important for us to know that.

16 But if you feel that, running into these
17 challenges where there is a deficiency in terms of
18 the report itself not being complete enough. And
19 if you feel that's a finding, then it stays a
20 finding. So I mean, that's going to be a big deal.
21 In other words --

22 CHAIRMAN KOTELCHUCK: Yes.

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1 DR. MAURO: That's a philosophy,
2 really.

3 CHAIRMAN KOTELCHUCK: That's right.

4 DR. MAURO: We need guidance from the
5 Board on how you would like us to deal with those.

6 CHAIRMAN KOTELCHUCK: Well, my first
7 thought is that that's an observation.

8 DR. MAURO: Okay.

9 CHAIRMAN KOTELCHUCK: What do other
10 Subcommittee Members think?

11 MEMBER CLAWSON: This is Brad. I
12 disagree.

13 CHAIRMAN KOTELCHUCK: Okay. For
14 reasons, essentially, that you outlined before?

15 MEMBER CLAWSON: Yes. You know --

16 CHAIRMAN KOTELCHUCK: Okay.

17 MEMBER CLAWSON: Go ahead.

18 CHAIRMAN KOTELCHUCK: Others?

19 PARTICIPANT: Of course, I think that
20 that's just a finding, or an observation because
21 it's not a violation of a written requirement.

22 MEMBER MUNN: This is Wanda. I agree.

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1 CHAIRMAN KOTELCHUCK: You agree that
2 it's an observation?

3 MEMBER MUNN: Yes. It would seem an
4 observation to me.

5 MEMBER CLAWSON: Let me ask a question
6 so I'm understanding where she's coming from on
7 this. Why do you feel that it's an observation?

8 MEMBER MUNN: I've always felt that
9 unless the findings, unless the material that we're
10 talking about is absolutely based on the total
11 facts that's available, that it is not -- to me a
12 finding is something that can be corrected. And
13 if it's not something that can be corrected, then
14 it's an observation.

15 MEMBER CLAWSON: Well and this is,
16 we've had this debate so many times on this. This
17 all comes back to the data. And if you're coming
18 into this and you don't have all the data, then
19 you've got a problem. To me, if the data wasn't
20 used, and as Grady has said, it wasn't there but
21 then it was, to me that's, we took it at face value
22 when this was done and it was.

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1 But you know, and I guess maybe part of
2 my QA program and my QA past is starting to come
3 out in that. Each one of us is looking at it a
4 little bit different. And I agree, in some
5 aspects, with this. But I also do not want to lose,
6 I have no problems with putting them into an
7 observation bucket.

8 You know, when there were little things
9 that have gone wrong because I'm one of the first
10 ones to agree too when we've got in there and come
11 to find out, when we get into it, that the dose still
12 came out the same. The way that they arrived at
13 it was a little bit different.

14 And we've made changes into that. This
15 has been something that, this has been working
16 itself to be able to make what it is now a long time.
17 And everybody has their own opinions too. And the
18 only reason I'm asking you, Wanda, is because I'm
19 trying to see how you were looking at it. That's
20 the only reason why.

21 CHAIRMAN KOTELCHUCK: Am I on?

22 MEMBER CLAWSON: Yes.

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1 MEMBER MUNN: Yes, you are.

2 CHAIRMAN KOTELCHUCK: Okay. Is there
3 any value -- I'm thinking out loud, I admit. Is
4 there any value to having something called, a
5 category called gray area with findings and
6 observations. I mean, good people will disagree
7 and we are disagreeing. It may actually muddy the
8 waters to think of a gray area. But would a gray
9 area, would that --

10 MEMBER CLAWSON: I thought that's what
11 the, kind of, observations were. They weren't
12 really a finding. They weren't anything. This
13 has been something we've been dealing with for a
14 lot of years.

15 CHAIRMAN KOTELCHUCK: Yes.

16 MEMBER CLAWSON: Where do we put them
17 in the bucket at?

18 CHAIRMAN KOTELCHUCK: Right.

19 MEMBER CLAWSON: We've had these same
20 arguments and stuff in the meetings of, well, is
21 it a finding or is it not a finding?

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MEMBER CLAWSON: And I will be the
2 first to tell you that I take a finding serious
3 because I don't want anything to look bad on this
4 program either.

5 CHAIRMAN KOTELCHUCK: Right.

6 MEMBER CLAWSON: But also too, we're
7 tasked with a job to be able to look at this. And
8 I believe Doug Farver brought it up to us and told
9 us. He says, you know, we're getting into these
10 areas that, at first glance, they are a finding.
11 But as we work ourselves through it and both parties
12 agree and then we better understand how it was done,
13 it's not a finding. We came out to the end that
14 it was an observation. And I thought that's how
15 we came up with this observation part of it. To
16 me, that was the gray area.

17 CHAIRMAN KOTELCHUCK: Yes.

18 MEMBER CLAWSON: That's where we threw
19 it into the gray area.

20 CHAIRMAN KOTELCHUCK: Right. Dave
21 and Josie, what are you folks thinking?

22 MEMBER BEACH: I guess I was waiting

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1 for Dave to say something. I can see the merits
2 on both sides so I'm kind of on the fence.

3 CHAIRMAN KOTELCHUCK: At some level,
4 we all -- David? Excuse me. David, are you on the
5 line?

6 MEMBER RICHARDSON: Yes, I am, but go
7 ahead.

8 CHAIRMAN KOTELCHUCK: Okay. At some
9 level, I think we all -- I was not here for those
10 earlier discussions. But I think we all recognize
11 that there's merit on both sides. There really is.
12 And that is, maybe we need to think about this a
13 little bit more, all of us. And still,
14 we can have Grady and Rose begin to look at those
15 gray areas, the grays, the ones that are uncertain
16 and see what they come up with. And that will also
17 give us on the Subcommittee a little bit more time
18 to think through.

19 Since I wasn't here for those earlier
20 discussions, I haven't thought it through as much
21 as I could or should. But I'll be glad to think
22 about it. I see the issue now.

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1 MEMBER CLAWSON: And Dave, this is
2 Brad. I agree with you 100 percent, but basically
3 this comes down to the Board or the Subcommittee
4 to be able to go through this.

5 CHAIRMAN KOTELCHUCK: Yes.

6 MEMBER CLAWSON: To be able to hash it
7 out. But that being said, all this discussion that
8 we have had today, we need to be looking into the
9 future. So that we're not trying to come back in
10 the past and try to figure this out, if it's a
11 finding or not.

12 Now we've got observations and I know
13 that this started with Doug. But we were going
14 into it and, you know, this is just an observation,
15 we've got this area. But we need to take a look
16 at how we're going to handle these in the future
17 too.

18 MR. KATZ: With respect to that, Brad,
19 I mean I did, quite a while ago, discuss this with
20 SC&A when this first came up. That we just get our
21 tracking sorted so that our tracking is the basis
22 for our statistics. And our tracking accounts for

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1 the Subcommittee's decisions on these cases so that
2 it is clear at the end of the day.

3 When findings are determined to be not
4 findings by the Board or it disagrees, in other
5 words, with them, that that's reflected in the
6 source for the statistics so that we don't have to
7 go back and tease through and reconstruct what
8 happened.

9 CHAIRMAN KOTELCHUCK: I agree.

10 MEMBER CLAWSON: I've watched that.
11 I've watched that because over the last few times,
12 and I think Dave can even talk to this one. That
13 we've, well, is this a finding or not a finding?
14 How are we going to change this? And I think that's
15 showing that we were seeing what the problem was.

16 CHAIRMAN KOTELCHUCK: Yes, that's
17 true.

18 MEMBER CLAWSON: I just want to make
19 sure because there can be some of them that come
20 out that kind of really don't fit anywhere. And
21 we're going to have to figure out how to deal with
22 them.

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1 CHAIRMAN KOTELCHUCK: Well I mean, as
2 Chair, I'm committed for the future to being more
3 careful about this, and to admitting that I did not
4 see the importance of this as I first took over as
5 Chair. So I certainly never pushed it. And I
6 agree, that we're seeing this problem now.

7 But that doesn't resolve the issue of
8 the Secretary's Report. I think, for the moment,
9 we just have to say, if it's okay with people, that
10 Grady and Rose look, and will cc Ted and me, and
11 we'll see in the end what they come up with and how
12 much overlap there is and figure out how to proceed.

13 MR. CALHOUN: This is Grady. What I'm
14 thinking we do, if it's okay, I'll just communicate
15 directly with Rose. And we'll start it with,
16 instead of, you know, doing a shotgun approach and
17 looking at everything, we'll take some subset and
18 look at maybe the six through thirteenth sets and
19 see what we come up with there before we go on to
20 the next thing.

21 I can tell you like, you know, we just
22 discussed -- and one thing that I'm not losing here

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1 is we have made a lot of improvements because of
2 this process here. And I don't deny that and we've
3 just, we've done a great job and you've really
4 helped us out.

5 When we look through some of these
6 things though, some of them that we'd be pushing
7 into an observation in our mind, you know, our two
8 goals are to do the Dose Reconstruction on the right
9 side of the compensation decision. And to make the
10 Dose Reconstruction Report readable and
11 understandable to the claimant.

12 Although it's important, it's not one
13 of our main goals to make our process auditable by
14 you, and I mean that with all respect. Just
15 because you don't understand what we did right
16 away, if we did it right, it's an observation not
17 a finding. So when we do our evaluations, that'll
18 be the point that we're coming from.

19 CHAIRMAN KOTELCHUCK: Yes. Sounds
20 good. I admit, as a guy sitting on the
21 Subcommittee, I'm glad to see SC&A give us a lot
22 of false positives which we can then get rid of and

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1 say, hey you know, that's not an observation.

2 MR. KATZ: Yes. Well, we certainly
3 prefer for them to err on the side of bringing
4 something forward.

5 CHAIRMAN KOTELCHUCK: That's right.
6 And that's always been, I mean, that has been the
7 spirit.

8 DR. MAURO: This is John Mauro again.
9 The mechanics of this going forward, because I
10 understand going retrospective for the purpose of
11 the letter. But what I'm hearing is the mechanics
12 of this going forward, when we are in the process
13 of sitting down in issues resolution and we get to
14 the point where we say, it turns out we accept
15 NIOSH's answer, we did not understand it or the
16 information wasn't available or whatever.

17 But at the end of some sometimes
18 protracted process, it's concluded, no, the
19 numbers are good. At that point, when we're right
20 there, do we change it from a low to an observation?

21 MR. KATZ: I think that's the way to do
22 it in the future.

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1 DR. MAURO: Okay. So that's how we're
2 going to go forward in the future.

3 CHAIRMAN KOTELCHUCK: Yes.

4 DR. MAURO: Ted, if you recall, you may
5 not have been there. We had that conversation and
6 the decision was, no, we're not going to go back
7 and fix those. Let the record speak for itself.
8 But now what we're hearing, and this is important
9 and I have no problem with any of it. I mean, what
10 I'm saying is that we're going to change our way
11 of doing business during the issues resolution
12 process when we reach that point, when SC&A
13 realizes no, they were correct after all. Even
14 though it may be a complex process to get to that
15 point, once we get to that point, we change that
16 low impact finding to an observation.

17 MR. KATZ: Right. And John, that
18 doesn't mean you have to issue a new audit report,
19 revised audit report. All it means is that, it's
20 just so that our summary table where we pull our
21 statistics for these reports for the Secretary,
22 just so that those statistics are correct. That's

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1 all.

2 DR. MAURO: Very good.

3 CHAIRMAN KOTELCHUCK: Yes.

4 DR. MAURO: This is very helpful for
5 going forward. Thank you.

6 CHAIRMAN KOTELCHUCK: And both sides
7 are doing a good job, it seems to me.

8 MR. KATZ: Oh, absolutely.

9 CHAIRMAN KOTELCHUCK: Yes. And
10 process is good; it's a good process. But it's now
11 ten of one Eastern Time. It seems to me we have
12 finished this discussion and it's time to take a
13 break, a lunch break. Yes? Or a late breakfast
14 break for our West Coast contingent.

15 MEMBER MUNN: Absolutely.

16 CHAIRMAN KOTELCHUCK: So it's ten of
17 one here. Is it okay, let's just do it for an hour
18 and get back together at ten of two this time.

19 MR. KATZ: Yes.

20 CHAIRMAN KOTELCHUCK: Okay. See you
21 in one hour, folks.

22 MEMBER CLAWSON: Okay. Bye.

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1 CHAIRMAN KOTELCHUCK: Thank you, all.

2 MS. GOGLIOTTI: Thank you.

3 CHAIRMAN KOTELCHUCK: Bye.

4 (Whereupon, the above-entitled matter
5 went off the record at 12:53 p.m. and resumed at
6 1:52 p.m.)

7 CHAIRMAN KOTELCHUCK: Al right.
8 Well, just going in order in our agenda, we have
9 three cases that remain from sets ten to thirteen.
10 As folks will remember, we have done all that we
11 could do for all the cases but there were three that
12 we referred to other Subcommittees or needed some
13 more work from NIOSH or whatever.

14 So, the three I have are Hooker Chemical
15 Set 10-221.1, and Koppers Company Set 12-282, and
16 Monticello Uranium. And I'm glad to know there's
17 a Monticello Utah because I had never heard of it
18 before and I was thinking Monticello, New York,
19 when did they have a uranium mill? It's part of
20 the Catskills area. So there's Monticello, Utah
21 uranium mill.

22 Now I have a feeling I don't know how

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1 much was done. For Hooker Chemical, we have a Site
2 Profile issue on internal exposure. I checked for
3 the AWE Working Group which I'm a member of, by the
4 way, and we have not dealt with AWE for a long time.

5 They had an SEC petition which the
6 Subcommittee has recommended not be accepted. But
7 they are looking to get some information from FOIA
8 and they requested that we not go to the Board until
9 they get their FOIA information. It may have some
10 bearing, they believe, on the decision.

11 But what I don't know is, as I said, it's
12 a Site Profile issue. Do you know, Ted, if anybody
13 has worked on it? That hasn't been mentioned by
14 --

15 MR. KATZ: Yes. The Hooker Work Group
16 has not been ready to meet. So that's why that's
17 sort of put on ice. So that's why that hasn't gone
18 forward. So there's no progress to be made there
19 on the Hooker cases. I thought there were two
20 Hooker cases but maybe --

21 CHAIRMAN KOTELCHUCK: There actually
22 are. There's 222.2. You're right, another one.

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1 Yes. Same issue.

2 MR. KATZ: So if the findings that are
3 outstanding are germane to the Site Profile issues,
4 then those are just on ice.

5 CHAIRMAN KOTELCHUCK: That means that
6 we, it's not a question of --

7 MR. KATZ: It means that the specific
8 Subcommittee can't resolve them because, until the
9 Site Profile issues are resolved, there's no right
10 answer.

11 CHAIRMAN KOTELCHUCK: Right. And
12 there's no way to expedite the Site Profile issue.

13 MR. KATZ: No, we can't push that
14 forward.

15 CHAIRMAN KOTELCHUCK: Okay.

16 MS. GOGLIOTTI: Now can I recommend
17 that we transfer them to that Committee?

18 MR. KATZ: No, because these are Dose
19 Reconstruction Review cases. We can't transfer
20 them. We just deal with them after that Work Group
21 gets around to the Site Profile issues.

22 MS. GOGLIOTTI: Okay. I will point

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1 out that there are a number of transfers already
2 in the six to thirteen --

3 MR. KATZ: Cases themselves, we don't
4 transfer. I mean, we don't transfer cases. We
5 wait for the resolution of Site Profile issues that
6 affect the case in our hands. But there's no
7 transferring cases to a Work Group from this
8 Subcommittee.

9 MEMBER MUNN: You can transfer action
10 but not the case.

11 MR. KATZ: Yes. I mean, in effect,
12 you're just awaiting their actions because they're
13 the ones who will make the decision about the Site
14 Profile, what the Board's view of the Site Profile
15 is.

16 MEMBER CLAWSON: I don't know if
17 anybody else is hearing it, but I'm hearing that
18 on the phone again.

19 MR. KATZ: Yes. There's some
20 crackling.

21 CHAIRMAN KOTELCHUCK: Same, yes. Do
22 we want to do what we did before which seemed to

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1 help? Which is to say hang up and dial in again.

2 MR. KATZ: We can try that. Sometimes
3 crackling is caused if people have their cell phone
4 close to their phone. So folks that do, and they
5 have their cell phone on, they want to either turn
6 off their cell phone or move it further away from
7 their phone. That might help too.

8 MEMBER CLAWSON: There we just went.

9 DR. MAURO: It just ended.

10 CHAIRMAN KOTELCHUCK: Yes, it did.
11 Thank you. We will not ask for identification of
12 who did it, but thank you. So all right, now those
13 represent two cases. No, two findings on the case
14 222, set ten case -- no, 221 and 222 are two cases.
15 And by the way --

16 MS. GOGLIOTTI: Yes, it's the same.

17 CHAIRMAN KOTELCHUCK: Pardon?

18 MS. GOGLIOTTI: It's the same case,
19 just --

20 CHAIRMAN KOTELCHUCK: Oh okay. So
21 that's one of the two cases that were reviewed.
22 Rose, when you're in the previous analysis -- I'm

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1 sorry, I know there's background noise when I'm
2 speaking.

3 MS. GOGLIOTTI: No, that case was
4 reviewed, Dave.

5 CHAIRMAN KOTELCHUCK: Pardon?

6 MS. GOGLIOTTI: That case was
7 reviewed.

8 CHAIRMAN KOTELCHUCK: Oh, okay.

9 MS. GOGLIOTTI: We have findings on it.
10 These cases are open still. So I treated those
11 cases as if there has been no change. So the
12 original ranking was ranked again.

13 CHAIRMAN KOTELCHUCK: Okay. Al
14 right. Good. And then so, we're waiting on that.
15 Then there's the Koppers Company from Set 12-282.1.
16 And folks will remember TBD-6001 was withdrawn.
17 At that time, last time we met, folks could not find
18 the Kopper matrix to handle the external exposure.
19 Is there anything new there?

20 DR. MAURO: This is John Mauro. Maybe
21 I could help a little bit.

22 CHAIRMAN KOTELCHUCK: Always welcome.

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1 DR. MAURO: I took a look at the matrix
2 and the TBD-6001 issue and the way it's written up
3 in the matrix. Since TBD-6001 is off the table,
4 the matrix really isn't very helpful. So what I
5 ended up doing is going back and looking at the
6 Koppers dose reconstruction and our review of the
7 dose reconstruction forgetting about TBD-6001
8 because it doesn't exist.

9 And I said, okay, I did a quick review
10 of the case. I think there are two problems with
11 it that really need to remain open. The only thing
12 I can really do right now, if this is helpful, is
13 there are two very simple technical issues. One
14 dealing external and one dealing internal.

15 Perhaps, if I just explain it very briefly,
16 it's something that NIOSH may be able to look at
17 pretty quickly and answer. I don't think it would
18 take much time. So if you'd like, I could very
19 quickly give you the bottom line on Koppers and what
20 is it we have to close out.

21 CHAIRMAN KOTELCHUCK: Please do.

22 DR. MAURO: And I'll do that very -- it

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1 turns out that, from an external point of view, the
2 way to look at it is, you've got 55-gallon drums
3 filled up with some form of uranium and people are
4 standing near it, being externally exposed. NIOSH
5 has come up with an external dose to people who work
6 there from the radiation coming from these drums
7 of .055 rem.

8 We looked at that number and we come up
9 with .34 rem per year. And NIOSH's position is,
10 well John, your numbers are based on the assumption
11 that the person spends 100 percent of his time one
12 meter away from the drum. So in effect, the
13 difference between SC&A and NIOSH is, we both agree
14 that the right distance is one meter but it's the
15 amount of time.

16 You know, I assume the person is there
17 2,000 hours per year. That's the distance he was
18 away, how long he's there. Effectively, and
19 please, NIOSH, correct me if I'm wrong because I
20 reviewed this yesterday. Effectively NIOSH is
21 claiming, well we're not assuming he's there 100
22 percent of the time.

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1 Effectively, it implies it's more like
2 ten percent of the time. So I think the
3 fundamental external issue is for us to come to an
4 agreement on, what's the reasonable amount of time
5 that the person is in the vicinity of these
6 55-gallon drums? And once we resolve that, the
7 issue will be resolved.

8 So right now, we're at about a factor
9 of ten difference. Because I'm at one extreme
10 where I put the guy one meter away 2,000 hours per
11 year. And I'm presuming, based on NIOSH's number
12 which is one tenth mine in terms of external
13 exposure, that they're assuming a shorter time
14 period that person's away. So that's issue one.
15 It's very simple.

16 Issue two is the internal dose. And
17 basically, there's airborne radioactivity
18 associated with the handling of all this uranium.
19 And I went back to the -- they're using surrogate
20 data that's out there from a report by two guys
21 named Christifano and Harris.

22 And he provides a wonderful amount of

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1 data on all the different internal exposure data,
2 airborne dust loading data for uranium, for a whole
3 wide variety of different ways of working with
4 uranium.

5 NIOSH assumed that the dust loading,
6 the intake rate, I'm sorry, the intake rate for
7 uranium by the workers is 100 picocuries per day. And
8 that's based on certain assumptions about the
9 airborne dust loading. I come up with a much --
10 I looked up Christifano and Harris, and the numbers
11 I get from them is much higher in terms of what the
12 airborne dust loadings are and the intake rates
13 are.

14 So bottom line is, from looking at this
15 from scratch basically, we don't agree on the
16 internal dose either. I'm not saying I'm right or
17 wrong. I'm saying if I were doing the dose
18 reconstruction, I would have come up with a
19 substantially higher external dose and a
20 substantially higher internal dose.

21 And I think it's up to, you know, the
22 issues resolution process to resolve those

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1 differences. So we really can't close those out
2 right now. The issues related to Koppers
3 unfortunately, I believe, has to remain open until
4 we have a chance to discuss the matters I just
5 mentioned.

6 MR. CALHOUN: John, did you get a
7 chance to look at my response, at least for the
8 external?

9 DR. MAURO: I think you -- yes. Your
10 response is to the amount of time the person was
11 there.

12 MR. CALHOUN: It actually was detailed
13 -- ultimately your finding was you didn't know, you
14 couldn't figure out how we did it. And I went
15 through and looked at the DR and showed you where
16 the calculations were. Because you're right, you
17 can't tell from the DR. But if you look at the IREP
18 input sheet, I went line by line and showed exactly
19 where those came from and the table in TBD-6001 was
20 referenced.

21 DR. MAURO: Yes, but I think we have to
22 discard the table, we ought to get rid of TBD-6001.

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1 It doesn't exist anymore and we have to look at the
2 merits going back to the original source document
3 that establishes the basis, originally established
4 the basis for TBD-6001 which is Christifano and
5 Harris.

6 So what I did is -- I don't want to, you
7 know, we shouldn't even be talking about TBD-6001
8 because it doesn't exist anymore. And since we
9 have Christifano and Harris which is, ultimately,
10 the source document that stands behind, originally
11 was supposed to stand behind TBD-6001 which
12 everyone agrees is a rock solid piece of work.

13 Let's just go right to Christifano and
14 Harris and see what they say about, you know, this
15 particular type of operation. And it's in there.
16 And I didn't come up with your numbers. So I'm
17 looking at the matrix and I see your words and I
18 see your reference to TBD-6001. But I decided that
19 -- listen, we can't be talking about TBD-6001 to
20 close this thing out because it doesn't exist.

21 Let me just go back to first principles
22 and go look at Christifano and Harris and see if

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1 I match your numbers or come close to them, both
2 external and internal. And unfortunately, I
3 can't. Now, I'm not saying that I got it right.
4 But I can't say here on the phone now that I
5 understand what you did and that it's correct.

6 And that's why I'm saying that. We're
7 going to need to have an opportunity to communicate
8 this. And I could write something up. I wrote up
9 notes that I'm reading from right now about what
10 I did and where I come out. I'll try to summarize
11 it quickly, you know, why I came out differently
12 than you.

13 And I think I've got to get that into
14 your hands. And then I think we speak from there.

15 MR. CALHOUN: Right. And yes, that's
16 fine. I'll definitely need something that
17 outlines that.

18 DR. MAURO: Yes. And I wish -- quite
19 frankly, it wasn't until getting ready for this
20 meeting where it was brought to my attention that
21 these are items that were still unresolved. And
22 I said, let me see what I can do to help. And I

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1 think that I see where our differences are. But
2 I think I owe you some material to explain, okay
3 this is what I did and why I'm coming up different
4 than you.

5 Then, I think we'll quickly converge
6 once you see how I'm looking at it. You may find
7 out where, you know, we'll come to an agreement.
8 But I have to show you why I did what I did.

9 MR. CALHOUN: Okay. Now, just so
10 everybody knows, it was done according to TBD-6001
11 which was in place at the time. It was current and
12 it was referenced.

13 CHAIRMAN KOTELCHUCK: Right.

14 DR. MAURO: And that's fine. But I'm
15 looking at it now, do we have -- I mean, the reality
16 is we're trying to close out an issue. And I can't
17 agree with the doses, notwithstanding the fact that
18 TBD-6001 existed or didn't exist at the time the
19 work was done.

20 I can only look at the doses from the
21 point of view, do I think you've assigned the right
22 dose to this guy or is there a problem?

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1 MR. CALHOUN: Okay.

2 DR. MAURO: I didn't ask myself the
3 question, did you follow TBD-6001?

4 MR. CALHOUN: I know.

5 DR. MAURO: You understand?

6 MR. CALHOUN: I just need that write up
7 so I can respond.

8 DR. MAURO: And I will. It won't take
9 me very long to do it. I'll get something to you
10 next week and then we can talk about it. I don't
11 know the machinery of how to do that. I'll just
12 take my lead from John Stiver on how to best go about
13 doing that.

14 MR. KATZ: Oh John, I mean that's --
15 this is Ted. I mean, just a memo describing your
16 methodology and the basis for which you contend
17 that this was done wrong, is what you need to do.
18 It'd just be a supplement to your Dose
19 Reconstruction Case Review.

20 DR. MAURO: Yes, and I can do that very
21 quickly.

22 CHAIRMAN KOTELCHUCK: And I think I

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1 hear Grady saying, I didn't do anything wrong,
2 TBD-6000 existed, well 6001 existed at that time;
3 it's since been withdrawn. And so, we have to do
4 it again. Right?

5 DR. MAURO: Yes. TBD --

6 MR. CALHOUN: That's fine. I'm
7 completely open to look and see what John has to
8 say.

9 DR. MAURO: Okay.

10 CHAIRMAN KOTELCHUCK: Very good.

11 DR. MAURO: Okay. We're in good shape
12 then.

13 CHAIRMAN KOTELCHUCK: Okay. Then
14 that's the way we're going to resolve that. And
15 finally, the Monticello uranium.

16 DR. MAURO: That's me again. And the
17 good news is we can close this and I'll tell you
18 why.

19 CHAIRMAN KOTELCHUCK: Okay.

20 DR. MAURO: When I reviewed this, one
21 of the most important exposure pathways for these
22 uranium mill tailings facilities, uranium mills,

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1 is radon, inhalation of radon and its progeny. And
2 the typical way in which it's done is you calculate
3 the intake, the exposure rate in terms of working
4 level months per year. That's the numbers that are
5 used as input into IREP in order to get a
6 Probability of Causation.

7 Now it turns out, when I reviewed this,
8 I saw something unusual. There was actually a dose
9 that was calculated. And I said, a dose. I mean,
10 I didn't know that, you know, my experience has been
11 that the protocol is to come up with working level
12 months per year.

13 So I called Jim Neton up. And Jim
14 explained to me that, in this particular case, they
15 followed a certain protocol that I was unaware of.
16 He explained it to me. I understand it, and as far
17 as I'm concerned, that's another way to do it, and
18 that's fine. You know, it's not the working level
19 month per year approach.

20 It's a dose approach based on the
21 citation material that Jim gave me. It's
22 certainly another way to do it. So as far as I'm

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1 concerned, this issue is resolved. It wasn't
2 something that was documented. The problem was,
3 it wasn't in the documentation.

4 I just simply went by the protocol that
5 NIOSH normally uses which is a working level month
6 per year protocol, not this other approach. But
7 once it was explained to me, what that other
8 approach is, I didn't have any problem with it.

9 CHAIRMAN KOTELCHUCK: Okay.

10 DR. MAURO: So I would recommend
11 closing this item.

12 CHAIRMAN KOTELCHUCK: Okay. That
13 sounds good.

14 MR. KATZ: So Dave and Subcommittee,
15 this is an example, I think, where you need to be
16 clear about whether in this instance, there's no
17 problem with the methodology except that it wasn't
18 documented so that John Mauro wasn't aware of it
19 when he reviewed it. So does this end up as an
20 observation?

21 MR. CALHOUN: I think it is an
22 observation. Isn't it?

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1 DR. MAURO: Yes. I would agree with
2 that.

3 MS. GOGLIOTTI: It's already an
4 observation.

5 MEMBER MUNN: It is.

6 CHAIRMAN KOTELCHUCK: Formerly it was
7 an observation.

8 DR. MAURO: It always was an
9 observation.

10 MR. KATZ: Okay. Sorry, I apologize.
11 I wasn't following along.

12 MEMBER CLAWSON: See Ted, this is one
13 of these situations where we've got into where
14 going through this review, we're just not
15 understanding. This is why we went to these
16 observations like we did. So it is a good example.
17 I think it's working. The only problem I see is
18 it's in the later part of this process.

19 MR. KATZ: Okay. Thanks.

20 CHAIRMAN KOTELCHUCK: Sounds good.
21 Well, we've taken care of those case issues. And
22 I think we're ready to go on to the remaining blind

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1 cases.

2 MS. GOGLIOTTI: If I may really quick.
3 Because we were asked to hold all of the revisions
4 to these cases until the 10th through 13th sets were
5 finalized, as long as no one has any objections,
6 I'll go ahead and reissue all of those.

7 CHAIRMAN KOTELCHUCK: I could not hear
8 that. I'm sorry.

9 MS. GOGLIOTTI: Oh, I'm sorry. Can
10 you hear me now?

11 CHAIRMAN KOTELCHUCK: Yes. Could you
12 please repeat now?

13 MS. GOGLIOTTI: SC&A was asked to hold
14 the revisions of all of the case sets that were
15 directed by the Board until after we finished the
16 tenth through thirteenth sets. And now that this
17 almost wraps it up, I'm going to go ahead and
18 reissue those. I believe there's five or six
19 cases. And that's where we were asked to withdraw
20 a finding or reduce a finding to an observation and
21 that was Board-directed.

22 CHAIRMAN KOTELCHUCK: Okay.

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1 MS. GOGLIOTTI: So you can expect to
2 see those.

3 CHAIRMAN KOTELCHUCK: Good. Thank
4 you.

5 MR. KATZ: So Rose, are you saying that
6 you'll send out a new sort of case summary? Or what
7 is it you're sending out?

8 MS. GOGLIOTTI: Throughout the issues
9 resolution process, we were asked to withdraw
10 certain findings or from the actual Dose
11 Reconstruction Report. I think we withdrew three
12 observations for change of findings. And we were
13 asked to make those in the actual report. And
14 those changes have been made, they just haven't
15 been finalized.

16 MR. KATZ: Oh I see. Okay.

17 CHAIRMAN KOTELCHUCK: Good. Okay.
18 Well now we're ready to go to the remaining. You
19 mentioned that there were, the first three blinds
20 that were done way back in sets one through six that
21 you wanted to go over again. I thought we had
22 completed them but --

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1 MS. BEHLING: This is Kathy Behling.
2 And there were actually two initial blinds that we
3 were given back in the 2009 time frame, I believe.
4 What you had asked me to do, back when we initially
5 did those first two blinds, we were not asked to
6 calculate a PoC.

7 CHAIRMAN KOTELCHUCK: Right.

8 MS. BEHLING: So at the last meeting,
9 you asked us to go ahead and calculate that PoC,
10 which I did. And I know that, perhaps many years
11 ago, we did have an opportunity to discuss these
12 cases. However, I think there are new
13 Subcommittee members who that are not really aware
14 of what we did in these two blinds.

15 And this is back when we did the two SC&A
16 methods, Methods A and B, and then we compared it
17 to NIOSH. If you agree, I do think there are some
18 interesting aspects and observations that I would
19 like to point out from these two older blinds that
20 may be worth taking some time for me to go over them.
21 I'll try and be brief although I do want to go
22 through each of the elements, if you agree.

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1 Let me just say this, on the first blind
2 which was a Portsmouth blind case, Method A's PoC
3 ended up being 49.35 percent. Method B was 79 --

4 MR. CALHOUN: Hold on a second. This
5 is Grady. I don't want to throw a wrench into
6 things, but I don't think case numbers should be
7 up there since we have members of the public on the
8 phone.

9 MS. BEHLING: That was going to be my
10 other question. Are there members of the public
11 on the phone? Because my next question was going
12 to be, for these two particular blinds, we never
13 did back then get a PA-cleared version.

14 Now they are available under the
15 Advisory Board website under the DR Subcommittee
16 folder under today's meeting, September 24th
17 meeting. And I was going to ask Ted, if we would
18 be able to pull those up or not.

19 MR. KATZ: Yes. They're fine on Live
20 Meeting. I think Grady is worried about what you
21 say orally.

22 MS. BEHLING: Okay. I don't think I

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1 gave --

2 MR. KATZ: Live Meeting is not
3 available to the public. It's only available
4 internally.

5 MS. BEHLING: Okay.

6 MR. CALHOUN: You have to be careful
7 with the case numbers.

8 MS. BEHLING: Yes.

9 CHAIRMAN KOTELCHUCK: Okay. Good.

10 MS. BEHLING: I didn't say the case
11 number, did I?

12 CHAIRMAN KOTELCHUCK: No, you didn't.

13 MR. CALHOUN: You did not.

14 MS. BEHLING: Okay. Thank you. But
15 first of all, like I was about to say, finally I
16 was going to say that NIOSH's PoC for the first
17 Portsmouth case is 48.75 percent. So Method A and
18 NIOSH's method are close: 49 and 48 percent.
19 Method B was 79 and I can explain that if you'd like
20 me to go through this.

21 This second case was an X-10 case. And
22 again, I calculated Method A's PoC to be 66.15

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1 percent. Method B's PoC was 72 percent. And
2 NIOSH's PoC was 43.63 percent. So as you can see,
3 both of the SC&A methods would have compensated in
4 this particular case.

5 But again, if you'd like me to go
6 through these, I can explain. I think in both of
7 these cases, we are going to find this was
8 professional-judgment type issues that drove the
9 differences. So I will let you decide if you'd
10 like me to go through those.

11 CHAIRMAN KOTELCHUCK: Yes, I would
12 like you to.

13 MEMBER BEACH: So would I.

14 MS. BEHLING: Okay. Al right, I will
15 start with the Portsmouth case. I will ask Rose,
16 maybe we can bring that up and I will start talking.
17 As I said, I'll try to keep it brief.

18 This particular person worked from
19 [identifying information redacted] through
20 [identifying information redacted] as a sheet
21 metal worker and then ultimately, a sheet metal
22 [identifying information redacted]. He was

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1 diagnosed with [identifying information redacted]
2 skin cancers and a [identifying information
3 redacted] cancer. It was a [identifying
4 information redacted] cancer.

5 In Table 2-2 on Page 8 of my report, I
6 give you a comparison of the different
7 methodologies. As you can see, SC&A's Method A
8 used what they considered a best-estimate method.
9 Method B set a reasonable but claimant-favorable
10 method. And NIOSH actually stated that they
11 overestimated these doses.

12 The primary approach for
13 overestimating associated with what NIOSH did is
14 that, rather than using the actual [identifying
15 information redacted] DCF of 0.62 prior to 1987 and
16 0.479 after 1987, they used a [identifying
17 information redacted] DCF of one. You can see that
18 in this Table 2.2.

19 I won't go through all the details but
20 everyone agreed on what the monitoring years were
21 and what years the individual wasn't monitored
22 which was 1970 to 1979 and applied various

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1 dosimeter correction factors and uncertainty
2 factors.

3 When we get to the recorded photon and
4 electron doses, which are shown in Table 2-3, you
5 can see that the difference in the electron dose
6 between SC&A's Method A and NIOSH was due to, in
7 this case, Method A incorrectly read the records
8 and assigned a positive dose of 139 millirem in
9 1969. And so, that is what created the difference
10 there in Table 2.3.

11 Method B is 2.8 times lower because
12 Method B only assumed one positive dose in 1969 and
13 used the RBS, [identifying information redacted]
14 --

15 (Telephonic interference.)

16 MS. BEHLING: Can you hear me?

17 CHAIRMAN KOTELCHUCK: Yes. Maybe
18 folks, somebody has their cell on.

19 MS. BEHLING: I hear crackling again.
20 So do you want me to continue?

21 CHAIRMAN KOTELCHUCK: It seems hard.
22 Let's wait a second. Does anybody have a cell

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1 phone nearby that may be feeding in?

2 MEMBER CLAWSON: How about everybody
3 mute from their --

4 CHAIRMAN KOTELCHUCK: Yes. Let's all
5 mute.

6 MS. BEHLING: Should we call back in?

7 CHAIRMAN KOTELCHUCK: I think we
8 should. Yes.

9 MS. BEHLING: Okay.

10 CHAIRMAN KOTELCHUCK: Okay, folks.
11 We'll all call back in. Sorry.

12 (Whereupon, the above-entitled matter
13 went off the record at 2:22 p.m.)

14 CHAIRMAN KOTELCHUCK: Okay, what were
15 we doing? Is Wanda back?

16 MEMBER MUNN: Yes, I am.

17 CHAIRMAN KOTELCHUCK: Okay. She's
18 not the culprit either.

19 MR. KATZ: And David?

20 CHAIRMAN KOTELCHUCK: No, David's on I
21 think. Right?

22 MR. KATZ: Good.

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1 MS. BEHLING: Okay, so I -- can I
2 continue?

3 CHAIRMAN KOTELCHUCK: Please do.

4 MS. BEHLING: Okay. And I was going to
5 just also say with regard to the [identifying
6 information redacted] dose, Method B was about 2.8
7 times lower and that was because that method
8 assumed one positive dose in 1969 and used the
9 [identifying information redacted] DCF as opposed
10 to NIOSH assuming that there were three positive
11 values throughout the years and used a DCF of one,
12 which was overestimating a function with using the
13 DCF of one.

14 If we go on to missed dose in Section
15 2.1.2, here again, Method A, the differences in
16 dose here was that Method A assumed an LOD of 15
17 milligrams --

18 MR. KATZ: I'm sorry, I'm sorry. But
19 someone is in a shopping area or something and if
20 you could just mute your phone.

21 MS. BEHLING: Okay, there we go. Back
22 to the missed photon and electron doses, if you look

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1 at Table 2.4, Method A assumed an LOD of 15 millirem
2 based on information in the Portsmouth TBD, whereas
3 NIOSH and SC&A's Method B assumed a 30 milligram
4 LOD, which comes from OTIB-17, which is your
5 assessment for skin doses. So that's what created
6 the difference in the missed photon and electron
7 doses.

8 Now, here's where we go to some
9 professional judgment. And again, this is
10 unmonitored external doses, Section 2.1.3 and
11 Table 2.5.

12 Everyone assumed that the individual
13 was unmonitored between 1970 and 1979, and assumed
14 that there should be coworker data used to fill in
15 that unmonitored period. And they all used the
16 OTIB-40, which is the external coworker data for
17 Portsmouth.

18 However, Method A and NIOSH assumed
19 that this worker fell into the 50th percentile
20 category, while Method B assumed that this worker,
21 being a sheet metal worker, would perhaps fall into
22 the 95th percentile category.

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1 And again, NIOSH used the DCF of one,
2 where the others used the DCF values associated as
3 appropriate for that under the implementation
4 Guide 1.

5 Occupational medical dose. Again
6 here, there are some differences. Again, all of
7 the B methods used the TBD for assessing -- that's
8 Table 2.6 -- used the TBD, Portsmouth TBD, Section
9 3, for calculating the medical doses. However,
10 differences in the dose was that SC&A's Method A
11 assumed an annual frequency based on information
12 in Table 3.1 of the Technical Basis Document.

13 And Method B and NIOSH only assigned
14 doses for documented. And, in fact, in looking
15 through the records, I think Method B came up with
16 ten X-rays and NIOSH came up with 12, so there was
17 a little bit of discrepancy between how they
18 interpreted the records.

19 Also, it's interesting with a skin
20 dose, because you have to select various areas and
21 various sites. Each method maybe selected a
22 different site and NIOSH used the entrance skin

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1 dose prior to 1970 and used the eye/brain as a
2 surrogate for the skin cancers on the [identifying
3 information redacted] and the [identifying
4 information redacted].

5 They used the thyroid as a surrogate
6 organ for the [identifying information redacted].
7 And just standard skin for the cancers on the
8 [identifying information redacted] and the
9 [identifying information redacted]. So there was
10 some differences in the selection of where the
11 particular site of the various cancers, skin
12 cancers, were. The only method --

13 CHAIRMAN KOTELCHUCK: Kathy, you're
14 fading for me.

15 MS. BEHLING: Okay. Is that any
16 better?

17 CHAIRMAN KOTELCHUCK: A little better.
18 How about others?

19 MEMBER BEACH: We're fine here.

20 MR. KATZ: Yes, she sounds fine here,
21 too.

22 CHAIRMAN KOTELCHUCK: Okay, that's

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1 fine then. Keep going. I can hear you.

2 MR. BEHLING: Okay. I'll speak up.
3 The only method that calculated dose from potential
4 skin contamination was Method B. They based that
5 on assuming a hundred hours per year of potential
6 skin contamination from uranium and technetium-99.
7 And that resulted in somewhere between one and two
8 rem.

9 Now we go to internal. Internal skin
10 doses were very similar between Method A and NIOSH.
11 Method B did not calculate that. Difference in the
12 [identifying information redacted] dose for the
13 uranium had to do -- it basically comes down to the
14 various assumptions used regarding how they're
15 going to fit the data.

16 For Method A, they assumed a chronic
17 exposure period between 67 and 85 at the LOD level.
18 They assumed Type M, because he felt that there was
19 also a lung count, and he felt that using a Type
20 S, the lung count would have bounded to using a Type
21 M. And Method A also accounted for recycled
22 uranium components.

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1 Method B considered three different
2 intake regimes and calculated a chronic intake from
3 67 through 75 at one-half the LOD value, also added
4 the recycled uranium component where NIOSH assumed
5 a chronic intake period based on one-half the LOD
6 throughout the employment period and also assumed
7 there was one bioassay in 1977 that was right at
8 the LOD level. And so they assumed that that was
9 an acute intake and calculated doses based on that
10 and also added in the recycled uranium component.

11 So it comes down to that the internal
12 doses differed resulting from interpretation of
13 the records. You know, whether it was acute on
14 that 1977 or whether that should all be considered
15 chronic.

16 Also, the selection of the sorption
17 types. Those Method B, I didn't mention is that
18 NIOSH in Method B assumed Type S absorption and just
19 a fitting procedure, whether it was a chronic or
20 acute.

21 So, really, the major difference was
22 the issue of the selection of 50th versus 95th

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1 percentile value from the coworker external data.

2 So that pretty much sums up this first
3 one. And the reason that Method B went over the
4 50th percentile was because of selecting the 95th
5 percentile for the coworker.

6 CHAIRMAN KOTELCHUCK: Yes.

7 DR. MAURO: So, Kathy, this is John. I
8 think that, you know, the level of granularity here
9 is amazing in terms of the level of detail done in
10 comparison.

11 But what I'm hearing is, it really boils
12 down to, the major difference was this judgment on
13 95th versus 50th percentile. And I know that
14 there's guidance out there by one of the OTIBs of
15 when you use 95th percentile and when you use the
16 full distribution.

17 And I guess, is it your opinion that
18 there's enough ambiguity in interpreting and using
19 that guidance, that reasonable people could very
20 well come to different decisions regarding whether
21 the 95th or the 50th should be used?

22 And if that's the case, that is a bit

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1 of a problem, because then you have inconsistent
2 approaches, which could have a substantial effect,
3 as we see here.

4 MS. BEHLING: I'm going to ask NIOSH to
5 weigh in on this, but when we're talking about sheet
6 metal workers, wouldn't they be plant type workers
7 or does it have to be more of operations type
8 people? I really, I'm not quite sure.

9 But I do ask myself, this is something
10 I think that -- that's why I wanted to discuss this
11 case so that we could have a better understanding
12 of, does a sheet metal worker fall into what you
13 would consider a 95th percentile?

14 MR. SIEBERT: This is Scott. I mean,
15 I can give you answer as to why we did what we did.

16 MR. BEHLING: Okay.

17 MR. SIEBERT: In this case, we were
18 talking about two different things. In this case,
19 we're talking about somebody who was monitored for
20 some of the period and was not monitored for other
21 parts of the period. But it doesn't appear their
22 job classification really changed.

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1 And in a case like that, what we will
2 normally do is look at the time frame they actually
3 were being monitored and see if it lines up
4 reasonably with the 50th percentile or the 95th
5 percentile.

6 Because the thought process really
7 isn't that suddenly they pulled his badge and
8 started exposing him at a much higher rate. So we
9 looked for what was relatively consistent.

10 And, just like SC&A Method A, it seemed
11 to be more reasonable that the 50th percentile was
12 indicative of what he was being exposed to when we
13 were monitoring him or when he was being monitored
14 within the 95th percentile. So that's the thought
15 process that went into this one.

16 MS. BEHLING: Okay. I can also
17 understand why Method B would perhaps select the
18 95th percentile, if you're considering that this
19 individual started out being a sheet metal worker,
20 person in the plant and then ultimately a
21 [identifying information redacted].

22 And so, I guess, like I said, that's the

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1 dilemma as to how do you classify this type of
2 person. But I think looking at the previous
3 records or looking at the dose records also is an
4 appropriate way to determine if it's 50th or 95th
5 percentile values that should be used.

6 MEMBER CLAWSON: Yes-- this is Brad. I
7 thought you always went to the most
8 claimant-favorable process. This is a prime
9 example of, you know, these are judgments that
10 these people are having to make.

11 CHAIRMAN KOTELCHUCK: Yes.

12 MEMBER CLAWSON: And I'll tell you
13 right now, from my standpoint, as being in the
14 operations, we have sheet metal workers in cells
15 with us and everything else like that, but we even
16 have some of the foremen are in there because
17 there's a problem, things like this. So it's one
18 of those things.

19 CHAIRMAN KOTELCHUCK: Well, Dave, but
20 I understood Method A and NIOSH were the, their
21 comparison if you're using the same methodology,
22 the B is not to check on whether NIOSH did it

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1 correctly.

2 It's -- well, it is, but it's a
3 different methodology and we are no longer using
4 B in now from the 5th, during the current grant
5 period.

6 So, to me, A and the fact that NIOSH
7 agree -- and A -- NIOSH and A agree, seems to make
8 me comfortable they're trying the same methods,
9 following the same rules, and they're getting the
10 same answers.

11 MS. BEHLING: If I can just interject
12 for a second and --

13 CHAIRMAN KOTELCHUCK: Yes.

14 MS. BEHLING: I don't mean to put Doug
15 Farver on the spot here but, because this goes back
16 a long way and I don't know if he's prepared to
17 answer this question, but he was the person that
18 did SC&A's Method A. And I don't know, Doug, if
19 you recall what your thought process was in
20 selecting the 50th as opposed to the 95th. Perhaps
21 Doug can give us some insight. You on the phone,
22 Doug?

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1 CHAIRMAN KOTELCHUCK: Give him a
2 second to get off of mute. Doug?

3 MS. BEHLING: Okay. I hope he's on the
4 line, because he was going to discuss some of the
5 later blinds.

6 CHAIRMAN KOTELCHUCK: Maybe he just
7 stepped away for a second.

8 MR. KATZ: Maybe someone could pop him
9 an email just to, or I'll send him an email, but
10 --

11 MS. BEHLING: Okay.

12 MR. KATZ: If you have a different
13 email for him, you might try him with yours, too.

14 MS. BEHLING: I will do that. Okay.
15 So I'm just presenting the different methodologies
16 and, like I said, I don't know. I didn't actually
17 go back because, as I said, it has been a while into
18 the TBD to reread whether there's any very clear
19 and concise -- it's never clear, I guess, to
20 determine if it's 50th or 95th, but I don't know
21 how specific the guidance is in the Portsmouth TBD.

22 MEMBER BEACH: That seems to be a

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1 problem that should be clearer.

2 DR. MAURO: Kathy, this is John. Your
3 PoC for A, did that come in above 50 percent?

4 MS. BEHLING: No, it didn't. That
5 came 49.

6 DR. MAURO: The only one that came in
7 above 50 percent was --

8 MS. BEHLING: Method B.

9 DR. MAURO: Was B.

10 MR. FARVER: Hello, hello? Hi, this
11 is Doug.

12 MS. BEHLING: Hi, Doug.

13 CHAIRMAN KOTELCHUCK: Okay.

14 DR. MAURO: Okay, I'll leave you to
15 talk.

16 MR. FARVER: Okay. I was my pushing my
17 mute button on and off and that phone wasn't
18 working, so I had to switch phones.

19 CHAIRMAN KOTELCHUCK: Oh.

20 MR. FARVER: I'm trying to talk to you
21 and nothing was happening. Okay.

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MR. FARVER: But I was going to tell
2 you, the short answer is I do not remember off the
3 top of my head why I selected 50th percentile. I
4 would have to go back and look at my report.

5 CHAIRMAN KOTELCHUCK: Yes.

6 MR. SEIBERT: This is Scott. I'll
7 just say once again, if you'll notice, there were
8 only three years where the individual even had
9 positive external dose. All other years that he
10 was monitored were all zeros. So that doesn't seem
11 to indicate a 95th percentile exposure.

12 MR. FARVER: If it's important to the
13 Subcommittee, I can go back and look at my original
14 report and see what I wrote in it.

15 CHAIRMAN KOTELCHUCK: Yes, I don't
16 know. I feel like we've talked about not using B,
17 because B uses different methodology. It doesn't
18 try to reproduce what NIOSH did, but tries to start
19 fresh from, whatever, a good basic approach. In
20 which case, I don't see the issue. I don't see that
21 it's an important issue.

22 MEMBER CLAWSON: This is Brad. I, you

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1 know what, I understand where everybody's going,
2 but this is one of the reasons why, when we get into
3 this professional judgment, it is so difficult and
4 so -- here we see a case like this and because of,
5 I believe, it's one decision. Correct, Kathy? To
6 go from 50 to 95?

7 MS. BEHLING: Correct.

8 MEMBER CLAWSON: Made it comparable or
9 not?

10 MS. BEHLING: Yes, that was the driver,
11 I believe, yes.

12 MEMBER CLAWSON: All I'm saying is I
13 want us to look at this and understand that this
14 is why so many times when we're looking at little
15 small things that change here or there or thought
16 processes, it can make a difference and we don't
17 see the outcome like this. I think this is very
18 useful, in my opinion.

19 CHAIRMAN KOTELCHUCK: Okay.

20 MR. SEIBERT: This is Scott again. I
21 went back to the original report. And in Method
22 A, it says the 50th percentile doses were chosen

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1 as a best estimate of the EE dose, since he was
2 likely exposed to intermittent low levels of
3 external radiation.

4 MS. BEHLING: And that does make sense
5 in this particular case, in my view, because of the
6 existing records. As Scott indicated, there was
7 only three years of positive doses and so I guess
8 it wouldn't be necessarily unreasonable.

9 CHAIRMAN KOTELCHUCK: And they were
10 discussing --

11 MR. CALHOUN: I imagine that their 50th
12 percentile doses aside were higher than any of the
13 doses when he was actually monitored.

14 CHAIRMAN KOTELCHUCK: Yes.

15 MEMBER MUNN: That's key. Correct,
16 yes. If you go to 95 percentile, you're just
17 simply making things up.

18 MEMBER CLAWSON: Wait a minute. I
19 think we do that quite a bit. We're taking a lot
20 of guesses here.

21 MEMBER MUNN: Well, when you have a --

22 MEMBER CLAWSON: You can't tell me that

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1 what he did was -- we're making a guess. We're
2 using a, I guess you could even say we're making
3 a professional judgment on this individual. He
4 may have, in the earlier years, been subjected to
5 a lot that he wasn't. We don't know. We're
6 guessing, I think, quite a bit.

7 MEMBER MUNN: What we're doing is we're
8 basing our judgment on the facts that are before
9 us. For us not to do that would be to be
10 essentially refuting all of the recordkeeping that
11 had been done.

12 MEMBER CLAWSON: Or lack of.

13 MEMBER MUNN: We have the record on
14 this particular worker.

15 MEMBER CLAWSON: We've got a fair
16 amount of record, yes. And I agree with that.
17 But we're taking that and spreading that over a long
18 period of time and we're telling everybody this is,
19 you know, this is our best guess.

20 And we have not, you know, this -- this
21 slide of the TBD is why we go into such great detail
22 with them and get as much information as we can.

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1 CHAIRMAN KOTELCHUCK: Other
2 questions?

3 MEMBER BEACH: Dave, I guess, for me,
4 it just goes back to, is there clear guidance and
5 should there be clear guidance on which percent you
6 use. So it's not left up to such a judgment, a
7 professional judgment.

8 MEMBER RICHARDSON: It's always going
9 to be a professional judgment. Because there's so
10 many factors that come into play. And you've got
11 to remember, too, that this guy was, I believe, he
12 was monitored, in fact, in the earlier parts of his
13 career and then he wasn't.

14 So that's even more indicative that he
15 moved to a job or moved to an area, even if it might
16 have been the same category, where he just wasn't
17 getting dosed or they didn't see any need to
18 monitor.

19 MR. SEIBERT: That is correct. He was
20 monitored on either side of the gap. That is
21 correct.

22 MR. FARVER: This is Doug. In

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1 OTIB-40, which is the external coworker dosimetry
2 data document, under -- it does give guidance for
3 selecting the 50th percentile or 95th percentile
4 under Section 7. So there's some guidance given.
5 If you want, I could read it to you.

6 CHAIRMAN KOTELCHUCK: Yes, could you?

7 MR. FARVER: Okay. There's a table,
8 so it talks about the table below. These
9 percentile doses should be used for selected PGDP
10 workers with no or limited monitoring data using
11 the methodologies outlined in Section 7 of OTIB-20.

12 In general, the 50th percentile dose
13 may be used as a best estimate of a worker's dose
14 when professional judgment indicates the worker
15 was likely exposed to intermittent low levels of
16 external radiation.

17 The 50th percentile dose should not be
18 used for workers who were routinely exposed. For
19 routinely exposed workers, i.e. workers who were
20 expected to have been monitored, the 95th
21 percentile dose should be applied.

22 For workers who are unlikely to have

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1 been exposed, external on-site ambient dose should
2 be used rather than coworker doses. So that's the
3 one bullet, Number 5.

4 CHAIRMAN KOTELCHUCK: Yes. Thank you.

5 MR. CALHOUN: And, Doug, you're
6 correct. And that comes, also that's just pulled
7 right out of OTIB-20. The guidance that talks
8 about assigning a coworker.

9 MR. FARVER: So that would be the
10 reason I would, my guess is, that I assigned it.

11 CHAIRMAN KOTELCHUCK: And that was
12 what NIOSH would have followed, as well.

13 MS. BEHLING: However, I will say,
14 after reading that guidance, you can understand why
15 there would still be some question, in a dose
16 reconstructor's mind, perhaps, as to -- because it
17 was simply, if I understood it correctly, it's
18 simply saying, if he had been monitored, and maybe
19 I'm misunderstanding what was said, but if he was
20 routinely monitored and should have been
21 monitored, perhaps some thought to the 95th is
22 appropriate.

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1 Now, as I'm saying, in this particular
2 case, because we're looking at relatively low
3 doses, but he was monitored before and he was
4 monitored after, so after hearing that, I could
5 understand why there would still be some need for
6 professional judgment. And it's not very clear as
7 to which way you would go with that.

8 CHAIRMAN KOTELCHUCK: Yes. So what is
9 our conclusion? Do the two blinds agree or not.
10 Do the blinds agree?

11 MEMBER RICHARDSON: Yes.

12 MEMBER CLAWSON: Okay. If we're going
13 off beta, I'd say no.

14 CHAIRMAN KOTELCHUCK: Okay.

15 MEMBER CLAWSON: The whole thing comes
16 down to you're going to want the best judgment that
17 they run into with this. And I can understand what
18 they're doing on this, but I just -- we are looking
19 at this. It's interesting. We use the data when
20 we can and we have to do other. This is a
21 monumental task that these guys have to go through.

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MEMBER CLAWSON: I guess that's why
2 we're still debating with the issue of professional
3 judgment.

4 CHAIRMAN KOTELCHUCK: Yes. Other
5 folks? I think there's a -- I mean, my feeling is
6 there's agreement.

7 MS. BEHLING: Okay. And, as I said in
8 this particular case, just based on the doses, I
9 would agree. And especially if the 50th
10 percentile doses are even higher than the actual
11 monitored doses. Perhaps there could be a little
12 bit more clarity put into the coworker guidance,
13 dose guidance, but --

14 CHAIRMAN KOTELCHUCK: Yes.

15 MS. BEHLING: -- in this particular
16 case, I have to say I would agree that the 50th is
17 probably appropriate.

18 CHAIRMAN KOTELCHUCK: Yes.

19 DR. MAURO: This is John Mauro. To
20 help out a little bit, to make this -- I'm the Method
21 B guy. And listening to the arguments, I have to
22 agree.

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1 When I made the judgment to go with 90th
2 percentile, some of the considerations I just heard
3 are certainly reasonable. And if I were to do it
4 over again, I'd probably go with the 50th
5 percentile. So I'm just trying to help --

6 CHAIRMAN KOTELCHUCK: Right.

7 DR. MAURO: -- everyone get
8 comfortable with the decision that is being made
9 right now. Because I think that the arguments that
10 were made by NIOSH and by Kathy -- you should also
11 realize that when we used to do the A and B, the
12 A people did not talk to the B people. They let
13 each person --

14 CHAIRMAN KOTELCHUCK: Good, good.

15 DR. MAURO: Which is good. And I think
16 in this particular case, we did do the B. I know
17 we don't do it any longer. But it is sort of
18 indicative of what could happen and I'm sort of glad
19 that we did A and B here.

20 And I'm happy to listen in, and I'm glad
21 to hear that my assumption was probably the wrong
22 one. Because I think that the arguments made by

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1 NIOSH are compelling and, you know, so that may help
2 everyone get comfortable with this because it's a
3 tough one. Because --

4 CHAIRMAN KOTELCHUCK: Yes.

5 DR. MAURO: -- it's a reversal
6 situation.

7 CHAIRMAN KOTELCHUCK: Right, exactly.

8 DR. MAURO: Yes, so --

9 CHAIRMAN KOTELCHUCK: That's why it's
10 so important.

11 DR. MAURO: I am now hearing, you know,
12 hearing the arguments. And the way I'm listening
13 to them now, I'm sold that I should have went with
14 the 50th percentile as opposed to the 95th
15 percentile.

16 MEMBER BEACH: John, that's helpful
17 for me. This is Josie. Thanks.

18 DR. MAURO: Okay.

19 CHAIRMAN KOTELCHUCK: Yes, it is,
20 also. So we concluded that there is agreement and
21 unless -- do I hear objections? Except Brad
22 certainly objected or disagreed. Any other?

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1 Brad, what do you think?

2 MEMBER CLAWSON: What's that? I'm
3 sorry, I couldn't hear you.

4 CHAIRMAN KOTELCHUCK: Oh, I'm sorry.
5 I said, Brad, do you feel comfortable --

6 MEMBER CLAWSON: Yes, I do.

7 CHAIRMAN KOTELCHUCK: Okay. Then we
8 have agreement, I think. All of us. David, I
9 didn't hear from you, but I'll accept that as
10 agreement.

11 MS. BEHLING: Okay. If you'd like, I'll
12 go on to the X-10 case.

13 CHAIRMAN KOTELCHUCK: Yes.

14 MS. BEHLING: There's some interesting
15 aspects to this also. And I'll have those, or
16 whoever, someone pull it up.

17 This particular case, the individual
18 worked at Y-12 between [identifying information
19 redacted] and then at the X-10, the Oak Ridge
20 National Lab facility, from [identifying
21 information redacted].

22 CHAIRMAN KOTELCHUCK: And we skipped

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1 those. We skipped quickly over the overall
2 picture, but NIOSH A and, excuse me, SC&A A and
3 NIOSH disagreed on the 50th percentile, right?
4 They disagreed on compensation.

5 MS. BEHLING: Yes. Both SC&A's Method
6 A and SC&A's Method B --

7 CHAIRMAN KOTELCHUCK: That's right.

8 MS. BEHLING: -- were greater than 50
9 and NIOSH came in under 50.

10 CHAIRMAN KOTELCHUCK: Right. And, in
11 fact, A and B are close to agreement on some basic
12 level.

13 MS. BEHLING: Yes. And we will get to
14 those issues.

15 CHAIRMAN KOTELCHUCK: Good. Okay.

16 MS. BEHLING: Again, judgment calls.
17 The individual worked in various job categories.
18 [Identifying information redacted], on and on, and
19 was diagnosed with [identifying information
20 redacted] carcinoma in 1982.

21 Now for the -- and I'll quickly -- yes,
22 there's Table 1-1 that shows you the doses and I'll

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1 just highlight for you the occupational medical
2 dose. You can see there's quite a difference
3 between Method A and the other two methods.

4 And also, the Method B internal dose is
5 quite a bit higher, and we will get to those issues.
6 But when it came to the -- and I'll just mention
7 to you that NIOSH and Method A used the urinary
8 bladder as the target organ for this particular
9 cancer, where Method B used the liver. It's just
10 an interesting side note. But currently, I think
11 the current OTIB-5 now uses the liver for the
12 [identifying information redacted] carcinoma.

13 Also have to mention that there was an
14 SEC at the Y-12 facility, so for this individual's
15 employment between 1944 and 1947, due to the SEC,
16 the external dose prior to '48 NIOSH in Method A
17 only used medical dose. Method B assigned a
18 medical dose and an on-site ambient dose.

19 If we look at Table 2.1, again here are
20 the comparison of the parameters that were used.
21 Pretty much everyone used a best estimate.
22 Assumed pretty, you know, a close -- yes, I'm sorry.

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1 Method A and NIOSH used a dosimeter correction
2 factor.

3 Again, the differences are going to be
4 in the organ DCFs with SC&A Method A using the
5 bladder and NIOSH using the bladder. The only
6 difference there is that NIOSH broke up the energy
7 ranges of 25 percent per 3250, which has a 1.244
8 DCF value.

9 And they assumed that 75 percent of the
10 dose was greater than 30-250 keV, which actually
11 has a DCF of .883. So that will explain the
12 difference in some of the doses.

13 If we go to the recorded doses shown in
14 Table 2-2 --

15 MR. SEIBERT: Hey, Kathy? I'm sorry.
16 This is just a point for the -- this is Scott.

17 MS. BEHLING: Okay.

18 MR. SEIBERT: I'm just asking the
19 Subcommittee, so this one has more differences than
20 the last one. The last one, really the only
21 difference was the 50th and 95th percentile.

22 Do you want Kathy to go all the way

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1 through and then go back and discuss each one
2 separately or would you like me to address these
3 as we go through? I can do it either way. I just
4 wanted to let you know, whatever is better for you
5 guys.

6 MS. BEHLING: I will leave that up to
7 the Subcommittee.

8 MEMBER CLAWSON: Myself, I'd like to
9 address them as we go through them, because it would
10 be kind of hard to recap back a little bit. But
11 that's just my opinion.

12 MS. BEHLING: Okay, Scott. If that's
13 the agreement of the Subcommittee, I'll let you
14 chime in. Just interrupt me any time.

15 MR. SEIBERT: Yes, I'm sorry to do that.
16 So we already talked about the use of the organs
17 and that was the changing OTIB-5. And I think we
18 already agreed that it was done correctly at the
19 time. And then OTIB-5 changed the organ of
20 interest.

21 And just one thing I want to point out
22 on that is that the change to the organ of interest

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1 being the liver rather than the bladder, it reduced
2 the DCF.

3 MS. BEHLING: Correct.

4 MR. SIEBERT: So there was no reason to
5 go back and do a PER or anything of the sort on this
6 one.

7 MS. BEHLING: Yes.

8 MR. SIEBERT: The next one is the
9 discussion of the energy ranges, which is why I
10 stopped you at that point.

11 MS. BEHLING: Okay.

12 MR. SEIBERT: The reason we used the
13 energy range up until, I believe it was, 1962 of
14 the split of 25 percent, 30 to, 250 keV, and then
15 75 percent at the over 250 keV, is because we based
16 it on the actual locations of the EE as came out
17 of the bioassay records and the various records
18 that we had within there.

19 The other thing that really drives --
20 and in '62 on, we actually used the hundred percent
21 30-50 keV just like you guys did.

22 MS. BEHLING: That's correct, yes.

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1 MR. SEIBERT: The other, the big thing
2 for me to point out on that is if you go to the actual
3 TBD and look at the facilities, there's only two
4 facilities that have a hundred percent 30-50 keV
5 as the energy split. Almost everything else is 25
6 and 75 percent or a hundred percent in the greater
7 range.

8 And those two facilities are 4508,
9 which is what we assumed after 1962, and a storage
10 facility vault for special nuclear materials.

11 Both of those in the attachment in the
12 TBD do not have, they're not open until, they don't
13 that have range until the early 1960s anyway. So
14 prior to the early 60s, there are no facilities that
15 would be 30 to 250 a hundred percent. So that's
16 why we used what we did.

17 MS. BEHLING: Okay. And I agree. In
18 fact, we go to the bioassay records also to try to
19 determine where this individual worked to get a
20 best estimate as to where that is. And I think that
21 that was appropriate.

22 As you can see in Table 2.1, where I have

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1 identified work locations, Method A and B of the
2 SC&A both assumed that he was in building 4508 and
3 the metal and ceramic labs throughout most of the
4 employment period.

5 So that is why I believe that they
6 assumed a hundred percent, 30 to 250, but I do
7 understand and agree with NIOSH's assumption.

8 Okay. If I go on, under the missed
9 photon doses on Table 2-3, again, I guess there is
10 some difference in interpretation of the records.
11 And I believe, and correct me if I'm wrong here,
12 Scott, but it's pretty much a difference in
13 assessing whether it's a zero dose or a blank and
14 how that gets counted for the missed dose.

15 SC&A's Method A interpreted, or
16 counted, 332 missed doses. Method B counted 450
17 missed doses or doses that were less than half the
18 LOD value.

19 And NIOSH counted 406 missed doses.
20 And again, the differences in DCF values is what
21 created the difference that we see in Table 2-3.
22 Anything to add, Scott?

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1 MR. SEIBERT: Yes. I would agree it
2 does have to do with the counting of blanks versus
3 zeros. And there is guidance in the TBD for X-10
4 on how to handle those things.

5 One thing I will point out and I'll
6 admit, if you look at -- I believe that Method B
7 probably has the best number of zeros, 450.

8 Going back and looking at the claim, we
9 had 406, and when I went back and looked at it, we've
10 actually done this claim under PER for Super S
11 plutonium.

12 We looked at that and there was a period
13 in '49 and '50 where there would be approximately
14 42 additional zeros that probably should have been
15 counted, which would bring our number almost
16 exactly the same as Method B.

17 So I think Method B probably has the
18 best number on that case and we realized what the
19 issue was. And we had actually done it correctly
20 in the PER when we corrected it for Super S. So
21 we would agree with that number, once we redid the
22 work.

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1 MS. BEHLING: Okay. Well, I'm glad to
2 hear that you did go back and we haven't gotten to
3 it yet, but I did point out in this report that at
4 the time that we were comparing or making this
5 comparison, the OTIB-49 guidance was not in effect.
6 And so, NIOSH did not look at the Super S.

7 But when I went back into the records
8 just recently, I didn't see where this case was
9 reworked, but obviously you said that it was
10 reworked. So I'm glad to hear that, because that
11 was going to be a comment when we got to the internal
12 section.

13 Okay, now here, when we get into the
14 occupational medical doses on Table 2-4, here again
15 I think we can consider this again professional
16 judgment.

17 The reason that Method A's doses were
18 so much higher is because Method A assumed that this
19 worker was, quote, a craft worker and therefore
20 assumed that they would have received a lumbar
21 spine X-ray between 1950 and 1953. And that added
22 13 rem to the occupational medical dose.

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1 And in the case of NIOSH and Method B,
2 they assumed a PGF for those years. So, Scott, I
3 don't know if you have anything to add to that.

4 MR. SEIBERT: Yes. And you're right.
5 It does have to do with craft worker assumption.
6 And looking at the, what this claimant is listed
7 as, I mean, I'm seeing [identifying information
8 redacted], lab technician.

9 Nothing really suggested to us that he
10 was a craft worker that would be moving things like
11 that, which is the reason I would assume that they
12 would getting a lumbar spine. So there was no
13 indication to us that those type of exams would have
14 been appropriate.

15 MS. BEHLING: Yes. I'm just seeing,
16 though, that he was a [identifying information
17 redacted] for one month in 1948. And then
18 [identifying information redacted]. So, you
19 know, various job categories, so.

20 Anyway, that was the difference in that
21 particular dose. And I'll move on. We can get
22 back to that.

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1 On-site ambient dose --

2 (Telephonic interference.)

3 Nothing much there.

4 Now, occupational internal. Due to
5 the SEC at Y-12, SC&A and NIOSH did not assign any
6 internal prior to '48. The individual did have
7 numerous urine bioassays, about 53.

8 CHAIRMAN KOTELCHUCK: Sorry. I was on
9 -- oh, you said 52 millirem. I read .052 millirem.

10 MS. BEHLING: Oh, you are right. I'm
11 sorry. It was such a low dose.

12 CHAIRMAN KOTELCHUCK: Okay. Fine.
13 Yes, good, good.

14 MS. BEHLING: I'm sorry I misread that.

15 CHAIRMAN KOTELCHUCK: Right.

16 MS. BEHLING: Thank you.

17 CHAIRMAN KOTELCHUCK: Okay. Good,
18 good. I'm just --

19 MS. BEHLING: Okay. So --

20 CHAIRMAN KOTELCHUCK: But go on.

21 MS. BEHLING: You needed the
22 correction. Now --

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1 CHAIRMAN KOTELCHUCK: Okay.

2 MS. BEHLING: If we go to Table 2.5,
3 again, a lot of the differences in the dose here,
4 and I'm not going to make judgment as to which is
5 right and which is wrong, but it was the intake
6 regimes that were selected by the various methods
7 that were used.

8 For the plutonium dose, Method A
9 assumed one chronic and three acute intake periods.
10 They also assumed for the plutonium, the Super S.
11 And as we were just talking, at the time, NIOSH did
12 not have the OTIB-49 guidance in place.

13 Method B went in and looked at numerous
14 intake regimes and ended up with one chronic period
15 for '48 through '50 and seven acute periods, also
16 considered Super S after 1955.

17 NIOSH assumed two chronic intake
18 periods and two acute periods. And they looked at
19 that fitted dose and compared it to missed dose and
20 compared year by year and assigned the highest for
21 each year. And again, no Super S dose was
22 considered.

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1 Now when it came to the uranium dose --

2 MR. SEIBERT: Can I go ahead and talk
3 about plutonium?

4 MS. BEHLING: Oh, yes. I'm sorry.

5 MR. SEIBERT: That's okay.

6 MS. BEHLING: Go ahead.

7 MR. SEIBERT: I know, you're excited
8 about internal. I am too. The plutonium, if you
9 notice, and Kathy did a great job pointing this out,
10 SC&A A and NIOSH, even though they're slightly
11 different from the methodology point of view, they
12 actually do come up with darn close to the same
13 dose, if you take out the idea of Super S, which
14 was not in place at the time.

15 The way you would deal with Super S is
16 basically a factor of four. That's a
17 simplification, but it would be approximately a
18 factor of four.

19 So if you look at the NIOSH dose in Table
20 2-5, where it's just over 200 millirem, and the SC&A
21 Method A is at a little over 800 millirem, once we
22 applied Super S in the PER, those two numbers lined

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1 up relatively well. So those are very close
2 agreement.

3 Method B, however, you can see,
4 obviously, is the outlier here. We didn't have the
5 files for how Method B actually created their
6 intakes and so on, so I spent a lot of time trying
7 to recreate it.

8 And what I came up with is, it appears
9 that each of those intake regimes was assessed
10 individually, separately. So the intake regime 1
11 was calculated in intake and then regime 2 was
12 calculated without taking into account that there
13 already was a regime 1.

14 MS. BEHLING: That's correct.

15 MR. SEIBERT: And that is a huge issue
16 in that if you don't take into account earlier
17 intake regimes, you're going to over-predict later
18 bioassay.

19 In this case, just by going through
20 those dates and those intake quantities, when I
21 projected out the last two bioassay samples, it
22 overestimated them by a factor of approximately 8

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1 and 24.

2 So that's the main issue. The
3 difference with the, the plutonium difference in
4 B, is that it was just assessed very differently
5 without taking into account previous intake
6 regimes, which would not be our method.

7 MS. BEHLING: That's correct. And
8 that we're also going to see the same issue with
9 the strontium and fission product doses.

10 MR. SIEBERT: Correct.

11 MS. BEHLING: The uranium doses were
12 all very close and so I won't go into details, but,
13 as Scott is saying, for the strontium and fission
14 product doses, Method A used two chronic periods,
15 as shown in Table 2-11. Compared types F and S and
16 eliminated any doses obviously less than one
17 milligram.

18 Let me see here. What else did we do?
19 It looked like we did some coworker doses. And
20 then we assumed -- the associated radionuclides for
21 the fission products for Method A.

22 And let me go back and just -- I think

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1 the method, no, no. I was going to say Method A
2 and NIOSH were similar, but they weren't. And
3 we'll let Scott explain that.

4 But what happened with Method B is they
5 assumed 11 independent continuous periods, '51
6 through '53, as you can see in Table 2-14. And I'm
7 sure, as Scott's going to tell you, because of
8 looking at them independently and not considering
9 the previous intake regime, that is what resulted
10 in the very significant dose.

11 They also, Method B also looked at some
12 ingestion from '48 to '50, but that really explains
13 why the 29 rem was very much different than the
14 other approaches.

15 MR. SEIBERT: That is part of the
16 issue. The other issue, which is also the reason
17 you see a difference between the NIOSH and the
18 Method A for data -- go ahead.

19 MS. BEHLING: I'm sorry. Go ahead,
20 Scott. I didn't mean to interrupt.

21 MR. SIEBERT: No, that's okay. The
22 main difference that I see there is NIOSH assumed

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1 a Type F fast-clearing solubility type, and SC&A
2 assumed Type S slow clearing.

3 The issue there is Type S is only for
4 strontium titanate and there are very few places
5 on-site at X-10 that had that. Actually, there's
6 only one location, Building 3517, where that
7 material was handled.

8 So the assumption is unless you can tie
9 them into that area or have an indication that they
10 could have been exposed to strontium titanate that
11 is not an option for doing Type S strontium.

12 When you look at the actual strontium
13 doses, it doesn't impact it that much. But if you
14 look at the intakes, there will be a much larger
15 intake of Type F strontium, which when you then
16 compare and put the other radionuclides that can
17 be ratioed to it, it makes them basically multiple
18 times larger.

19 I don't have the number, but I want to
20 say they're 30 or 40 times larger, which gives you
21 the much larger doses. And they're based on that
22 strontium titanate, which is not an option for

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1 uptake at that point.

2 MS. BEHLING: I agree. I agree. And
3 I guess the difference between Method A and NIOSH's
4 strontium-90 dose is that they also, Method A also
5 considered some coworker dose between 1971 and 1975
6 -- internal coworker dose unmonitored for the
7 strontium-90.

8 MR. SEIBERT: Right. And that was a
9 very minuscule difference. And, yes, I agree.

10 MS. BEHLING: Yes.

11 MR. SEIBERT: But I think we pretty
12 much agree on that.

13 MS. BEHLING: Okay. And that's pretty
14 much the summary. Like I said, I thought the
15 biggest issue was whether you classify this
16 individual as a craft worker with regard to the
17 medical doses, because that's really what drove
18 Method A into indicating that the dose, or that the
19 PoC would be greater than 50.

20 So again, as Scott and I mentioned, this
21 is a judgment call based on what type of worker was
22 he? Was he considered a craft worker, based on the

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1 job categories that we've identified?

2 CHAIRMAN KOTELCHUCK: And we have no
3 way of knowing.

4 MS. BEHLING: And again, I will defer
5 to Doug. Again, I don't mean to put you on the
6 spot, Doug, but I guess you could be the best one
7 to explain why you felt that this person was a craft
8 worker.

9 MR. FARVER: I just found my old
10 reports from this. I'm going to try and find out
11 why.

12 MS. BEHLING: Okay. And if you go
13 back, Rose, to prior to this Table 2.1, I think I
14 list all of the job functions that this individual
15 -- right there. I've highlighted them.

16 And I guess, again, it's difficult for
17 me to tell, but laboratory technician I wouldn't
18 necessarily think was a craft worker. Science
19 technologist, I don't know.

20 As we're talking about doses, we're
21 talking about medical doses associated with the
22 X-10 facility.

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1 MR. FARVER: Kathy, I'm having a hard
2 time finding my original report, so I don't want
3 to take up everyone's time.

4 MS. BEHLING: Right. And in this
5 particular case, like I said, I can also
6 understand, from Scott's perspective, saying
7 trainee, I don't know, repairman, mechanic.
8 Although that was Y-12, I'm sorry. We need to look
9 at the Oak Ridge data. So patrolman, store
10 attendant, security guard. I can understand, I
11 guess, why I would not have considered him a craft
12 worker.

13 MR. SEIBERT: And, Doug, I happen to be
14 looking at it right now, just to help you out.
15 There really isn't -- I'm looking at that section.
16 There really isn't a reason to say why you did
17 assume that in that report.

18 It just says, in addition, it was
19 assumed that the EE received lumbar spine X-ray
20 series from '50 to '53. So, and your report
21 doesn't really give that information, if you're
22 looking for that, that I can see.

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1 MR. FARVER: Okay, thanks.

2 MEMBER RICHARDSON: Hi, this is David.

3 CHAIRMAN KOTELCHUCK: Go ahead.

4 MEMBER RICHARDSON: Another way of
5 looking at this, my guess, is, is there not clear
6 guidance right now on the definition of a craft
7 worker or what job titles or set of job titles fall
8 into that? Is that correct?

9 MS. BEHLING: I'm going to ask NIOSH,
10 perhaps.

11 MR. SEIBERT: Yes. I mean, I'm going
12 to tell you that X-10 is not my site, so I can't
13 tell you from the specific X-10 point of view.
14 However, from a generic point of view, it falls
15 under the same thought process as the construction
16 trade worker, OTIB-52.

17 And that does list various types of
18 individuals. Laborers, mechanics, masons,
19 carpenters, pipe fitters, painters, boilermakers.
20 It gives that type of information. And this person
21 just doesn't seem to fit into those categories.

22 CHAIRMAN KOTELCHUCK: Dave, it seems

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1 to me that this is a case where there is not
2 agreement. That is, that it would flip depending
3 on which perspective you had.

4 Because the person's working in so many
5 different types of jobs and we don't have detailed
6 information about what's involved with each,
7 right? I mean, I think this is the one that I would
8 accept as there was not agreement between NIOSH and
9 SC&A on the blind.

10 Well, how do others think? What do
11 others think? Excuse me.

12 MEMBER RICHARDSON: Well, I guess what
13 I was getting at is there's an advantage in, to the
14 extent possible, having clarity in the definition
15 of rules or categories so that you have
16 reproducibility in decision making.

17 And it may just be sitting on the place
18 where, you know, I think there's one of two ways
19 of doing it. Either to try and refine the
20 definition of what that means or, in some cases
21 where there's uncertainty, NIOSH has had a
22 precedent of doing things like averaging between

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1 two options or --

2 CHAIRMAN KOTELCHUCK: Yes.

3 MEMBER RICHARDSON: And I don't have
4 any advice about it, except that it seems like it's
5 flagging someplace where two people with good
6 intentions are coming up to different, trying to
7 defend different positions.

8 CHAIRMAN KOTELCHUCK: And that's what
9 we're trying to find out is if the two people
10 working separately, the two groups working
11 separately, come to different opinions.

12 It's not a question, I mean, we can, for
13 the future, look to forcing people into one of the
14 two categories, craft or not. But what we've been
15 doing, presumably all along, people have been
16 making some judgment or other without clear
17 guidance. But the result is that they do come up
18 with different compensation decisions.

19 MR. SIEBERT: This is Scott. One
20 thing I do want to point out that the craft worker
21 X-rays were only assigned from 1950 to 1953.

22 And that is the period where he was

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1 working as, the listed jobs are [identifying
2 information redacted] and lab technician. And,
3 once again, I just do not see either of those as
4 being craft workers.

5 CHAIRMAN KOTELCHUCK: Yes, yes.

6 MR. FARVER: Listen, this is Doug. I
7 did find that, where I got that number from.

8 MR. SIEBERT: Oh good.

9 MR. FARVER: It's from Table 3-2 of the
10 ORNL Technical Basis for X-rays. It lists the
11 whole sequence, starting in 1947, '47 through --
12 and through the different years and what X-rays
13 were taken during those different periods.

14 And the period from April 6th, 1950
15 through September 23rd, 1953, you go across to the
16 X-ray and projection, and that's where the lumbar
17 spine series comes in.

18 And then if you keep going over, it says
19 people involved, craft workers. But it's the only
20 thing listed for that time period. But that's the
21 table that that assumption came from. Table 3-2.

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MEMBER CLAWSON: And actually, that
2 person, you know -- how many different groups,
3 Scott, do we have? You have craft and operation
4 and what else?

5 What do you know -- because I'm looking
6 and he was only a [identifying information
7 redacted] for a couple of months there and a lab
8 technician, or whatever. It seems like if he was
9 a lab nerd, he would have stayed with that quite
10 a bit.

11 But, you know, if he was a lab
12 technician out there taking samples or whatever
13 else, it -- I don't know if you could really
14 classify him out of it.

15 That craft one really bothers me.
16 That, so only people who were out there,
17 pipefitters or welders or, would have got that
18 X-ray. I think --

19 MR. SEIBERT: Well, I'm going to speak
20 here and, unfortunately, Elyse Thomas, our medical
21 X-ray guru for the project, could not be on the call
22 today.

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1 But the idea for those additional
2 lumbar spines based on craft workers was based on
3 a safety concern of the type of work they were doing
4 was lifting and turning and so on. So it had
5 nothing to do with radiation.

6 And anybody can correct me if I'm wrong.
7 That's my understanding. So once again, a lab
8 technician just would not fit that type of
9 definition to me.

10 MS. BEHLING: I agree that that is also
11 my interpretation of why they did the lumbar spine
12 X-rays.

13 MR. FARVER: I'm not going to -- this
14 is Doug and I'm not going to say that's a good or
15 bad assumption that I used. I'm just saying that's
16 where it came from. The Technical Basis Document.

17 CHAIRMAN KOTELCHUCK: Yes.

18 MS. BEHLING: It almost sounds like
19 that table should have another option for those
20 years.

21 MR. FARVER: It does above it, but it
22 incorporates a lot of years. It's a little

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1 confusing.

2 MS. BEHLING: Yes. That's what I was
3 going to say.

4 MR. SEIBERT: Yes. What it seems to be
5 saying is craft workers during that time frame had
6 a special regime where they were getting a lumbar
7 spine series, APs, a lot of it lateral. All those
8 things are listed there, whereas the line above it
9 is talking about 1947 to 1963, and it's for
10 employees in pre-placement. It's the people
11 involved.

12 So the way I read this table is if you're
13 a general employee, you're going to be getting the
14 one X-ray, one film projection. If you're a craft
15 worker during that minor subset of time, you would
16 have also gotten these additional exposures.

17 MR. FARVER: Oh, okay. Scott, I
18 understand that. Now go down to the line below
19 that, where it says, end of 1963 to 1976.

20 MR. SIEBERT: Yes.

21 MR. FARVER: And it goes, people
22 involved, only pre-placements. Does that mean

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1 employees were not given regular exams?

2 MR. SIEBERT: That is the way I would
3 read it, but I can't say for sure.

4 MR. FARVER: And then back in '76, they
5 started giving employees exams again?

6 MR. SEIBERT: Employees in respirators
7 and asbestos programs every three years.

8 MR. FARVER: Okay.

9 MR. SEIBERT: So, yes, it does seem like
10 they changed their process over the years, which
11 is what this table is explaining.

12 MR. CALHOUN: And I'm sure we didn't
13 guess on that. That was something that we had
14 documentation about their program.

15 MR. SEIBERT: Oh, yes, I'm sure that
16 came from somewhere.

17 MEMBER CLAWSON: That's interesting.

18 MEMBER RICHARDSON: Just for me to
19 clarify, you're saying there was no medical
20 screening in those years, other than for craft
21 workers?

22 MR. SEIBERT: No. During those years,

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1 there was medical screening for, it appears,
2 everyone up until -- I just went away from the
3 table. I'm sorry. Up until -- was that '63, Doug?

4 MR. FARVER: Yes.

5 MR. SIEBERT: Yes. Up until '63,
6 employees in pre-placement were getting that. But
7 during the 1950 -- actually, it was April 6th of
8 1950 to September 23rd of 1953, which gives me the
9 indication, as Grady was saying, this ties back to
10 a reference we have in the SDRB saying that craft
11 workers were getting additional exposures for
12 medical X-rays during that time frame.

13 CHAIRMAN KOTELCHUCK: Where do we
14 stand, folks?

15 MR. CALHOUN: Good to go is my vote.

16 CHAIRMAN KOTELCHUCK: Pardon?

17 MR. CALHOUN: I vote that it's good to
18 go.

19 CHAIRMAN KOTELCHUCK: Others now --

20 MR. CALHOUN: It was based on, you
21 know, we have a program. Documentation is
22 discussed. What was required when. And that's

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1 fairly typical that different types of X-rays were
2 done based on the types of workers.

3 That, combined with the fact that we
4 have clear years when they assigned that extra
5 X-ray dose. And during those years, there's not
6 even a job category that remotely sounds like a
7 craft worker.

8 So this case was done according to all
9 our documentations. If there's an issue something
10 thinks was TBD, that's a different situation.

11 CHAIRMAN KOTELCHUCK: So you're good
12 to go?

13 MR. CALHOUN: I'm good to go.

14 CHAIRMAN KOTELCHUCK: Okay. Then
15 does that not mean that if you're good to go, that
16 SC&A and NIOSH disagree on the blinds?

17 MR. CALHOUN: I'd agree that we did it
18 right, so --

19 CHAIRMAN KOTELCHUCK: I'm not saying
20 you did it wrong or right. I'm saying, do you agree
21 or disagree? And if you say you did it right, which
22 is fine and sounds persuasive, then we have to say

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1 that SC&A didn't agree.

2 MR. KATZ: Well, let's hear again from
3 SC&A. Kathy was saying that she understood the
4 crafts issue distinction and the job definitions,
5 but I haven't heard SC&A speak with one voice on
6 this.

7 CHAIRMAN KOTELCHUCK: Good. Let's
8 hear.

9 MS. BEHLING: And I'm going to let Doug
10 weigh in here, but it does sound to me, and I do
11 agree, I would not consider laboratory technicians
12 to be a craftsperson. That I agree with.

13 And I do think the lumbar spine exams
14 were given for people that were out there lifting
15 and turning and exactly for that reason.

16 MEMBER BEACH: Okay. Well --

17 MS. BEHLING: The only thing -- yes?

18 MEMBER BEACH: This is Josie. Let me
19 stop you just for a sec. Process, it says, process
20 operators, repairmen, mechanics, lab techs. The
21 lab techs that I know of do the same work that
22 operators do, and that does include lifting and

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1 turning and up to, I think the limit is, 40 to 80
2 pounds. So --

3 MS. BEHLING: Okay.

4 MEMBER BEACH: The only thing I --

5 MS. BEHLING: -- you're saying that is
6 true for lab technicians?

7 MEMBER BEACH: The ones that I'm aware
8 of here at my site, lab technicians do that type
9 of work. So do the operators, the repairmen,
10 mechanics. Those all fit under categories where
11 people would be doing some kind of lifting.

12 MS. BEHLING: Okay.

13 MEMBER BEACH: Because that's the time
14 frame --

15 MS. BEHLING: Alright, yes.

16 MEMBER BEACH: Yes. That is --

17 MS. BEHLING: I think that Doug is also
18 saying he was looking at a table that seemed to
19 indicate between that time frame, that was the dose
20 that got assigned to the medical. And I'm just,
21 also didn't want there to be some discrepancy or
22 something that is not clear in that table or in the

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1 TBD.

2 But if lab -- and you have a better
3 understanding of what the roles are and the jobs
4 for these various job categories, so I'm going to
5 stay out of it.

6 MR. FARVER: This is Doug. All I can
7 say is that there were no medical records. So you
8 didn't have anything to go by to say that, you know,
9 you had a previous history of just certain exams.

10 It just really wasn't clear to me, so
11 I took the most, we'll say, claimant-favorable
12 approach, which was to add in those lumbar exams
13 for, what, three years or so.

14 MEMBER BEACH: Four years.

15 MR. FARVER: Four years. I don't know
16 if it's right or wrong. I don't know if he really
17 was considered a craftsperson or if he had those
18 exams, because there are no records.

19 In the absence of records, I thought it
20 was the right thing to do.

21 MEMBER BEACH: Most claimant-favorable.

22 I agree.

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1 MR. FARVER: I think what we're falling
2 down to, though, and maybe we'll have to go back
3 and look at our source documents, but the frequency
4 and type of exams were determined or stated
5 somewhere, I imagine, to be craft workers. Not
6 people who left, but craft workers. And so, that's
7 how the site determined who was going to get these
8 X-rays.

9 MR. SIEBERT: I did some tracking while
10 we were talking and I'm --

11 MR. FARVER: Great.

12 MR. SIEBERT: -- sorry to interrupt.

13 MR. FARVER: I'm going to mute myself
14 then, Scott.

15 MR. SIEBERT: I found the SRDB
16 reference that this actually comes from. It's
17 called Oak Ridge National Lab Historical X-ray
18 Practices and Protocols. And I'll read you the
19 portion that is talking about that portion.

20 Pre-employment and chest X-rays were
21 done on all prospective employees and, depending
22 on job classification, parentheses, i.e. crafts

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1 workers, close parentheses, lumbar spine X-rays
2 were also performed. Lumbar spines were performed
3 from 4/1/50 through 9/23/53.

4 And that's the information we have. So
5 it very specifically states craft workers, but
6 there's no specific definition.

7 MR. FARVER: It sounds like pre-job
8 only though, doesn't it?

9 MEMBER BEACH: No, no, no. That's two
10 different topics. He said pre-job for the one type
11 of X-rays and job employment for craft people for
12 the lumbar.

13 CHAIRMAN KOTELCHUCK: For three years.

14 MR. SIEBERT: Right. Depending on job
15 classification, lumbar spines were also performed.
16 It's not necessarily clear if that lumbar spine
17 would be only pre-employment lumbar spine or while
18 they were doing the work. It's, once again, it's
19 not clear. However, through the TBD, we've listed
20 it as if you're a craft worker, you would assume
21 it every year.

22 MEMBER BEACH: Well, you have

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1 classifications in these job titles that are craft
2 people, so you have to go with the most
3 claimant-favorable, in my opinion.

4 MR. CALHOUN: Not for the years that
5 you assigned those doses.

6 MEMBER BEACH: Which are what years
7 again? Please remind me. '50?

8 MR. FARVER: '50 to '53.

9 MEMBER BEACH: And that is your tech
10 science and --

11 MR. FARVER: No. No, it's --

12 MEMBER BEACH: No?

13 MR. FARVER: Only the lab technicians.

14 MEMBER BEACH: Okay. Then those lab
15 technicians should be covered also.

16 MR. CALHOUN: I've never heard a lab
17 technician be classified as a craftsman. Never.

18 MEMBER BEACH: Well, I have to beg to
19 differ. That's what they're classified as here.
20 Lab technicians take care of all their own waste,
21 handle all their own barrels, move barrels.

22 MR. FARVER: So in 1955, do you think

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1 a lab technician was classified as a crafts worker?

2 MEMBER BEACH: I do, yes.

3 CHAIRMAN KOTELCHUCK: In Y-12?

4 MS. BEHLING: X-10.

5 MEMBER CLAWSON: Well, let me ask this
6 question. What would you think they would have
7 been classified as?

8 MR. FARVER: A lab technician.

9 MEMBER CLAWSON: Well, okay. And what
10 is a lab technician? Is he a scientist? Is he
11 classified as a professional? You know, you're
12 putting this position of a craft in there, and
13 you're looking at it very small, you're looking at
14 just pipefitters, welders, so forth like that.

15 And then you start getting into all the
16 operations personnel. Then you get into all the
17 scientists. You get into the professional part of
18 it.

19 You've got -- and each one of these
20 sites is a bit different the way they classify their
21 people. I can see very easily, with Josie, how
22 this can be classified as craft.

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1 But the whole thing comes down to, guess
2 what? It comes back to one thing again. We're
3 making a professional judgment here.

4 But he does not look to me, where he's
5 been a [identifying information redacted] for so
6 long, just all these different ones, he does not
7 look like to me that he falls in the professional
8 category as a scientist or administrator or
9 anything else like that. So, in my opinion, I
10 think he'd fall more into the craft end of it.

11 Craft is pretty broad spectrum, I'd
12 say. But I imagine that they'd have operators and
13 everything else that would fall into that category
14 as craft.

15 I'm considered a craft. I'm an
16 operator. But they've thinned, through the years
17 they've made those separations even more clear.

18 MS. BEHLING: I will go on to say, and
19 I'm not going to try to make a judgment in any way,
20 but if you go on to Page 15 of the Technical Basis
21 Document, it does talk a little bit further about
22 the lumbar spine series of exams.

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1 And it says that it was reserved for
2 pre-placement X-rays exams for craft employees.
3 And then in parenthesis, it says, pipefitters,
4 carpenters, et cetera.

5 MR. FARVER: Yes.

6 MS. BEHLING: So I don't know if that
7 sheds any additional light on --

8 DR. MAURO: Kathy, does this whole
9 conversation decision rest on this single metric
10 or are there other differences that could possibly
11 have turned this, reversed this, also? Because
12 I, the numbers, I didn't -- how close are we to that
13 50? How close was NIOSH to that 50 percent? What
14 was the number?

15 MS. BEHLING: Let me look. NIOSH was
16 --

17 MEMBER BEACH: While you're looking,
18 can I ask Grady a question? You said this lumbar
19 thing was based on a finding or something within
20 the plant. Do you guys have a copy of that?

21 MR. CALHOUN: Yes. Scott, I believe,
22 read that.

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1 MR. SIEBERT: Correct. What I was
2 reading --

3 MEMBER BEACH: Oh, that was what you
4 were reading?

5 MR. SIEBERT: Yes. That was from --

6 MEMBER BEACH: Okay.

7 MR. SIEBERT: -- the Site Research
8 Database that we got data from the plant.

9 MEMBER BEACH: Okay.

10 MS. BEHLING: And, John, to answer your
11 question, NIOSH's PoC, at least for this particular
12 dose reconstruction, was 43.63.

13 Now, Scott indicated that -- and that
14 was a question I was going to ask -- that because
15 of the Super S plutonium, this case should have been
16 reevaluated.

17 And I don't know what the result of that
18 reevaluation was, because, in fact, I didn't -- I
19 was questioning whether it was reevaluated,
20 because I didn't see it in the file.

21 MR. SIEBERT: The reevaluation was at
22 48.1 percent.

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1 DR. MAURO: I'm hoping that this is an
2 exception. This very -- you see we're operating
3 at a very, very fine edge on judgment, on
4 interpretation of the regs, where a decision
5 regarding compensation for a real person hangs in
6 the balance. So it's -- and the fact that we're
7 coming in at 48 one is --

8 CHAIRMAN KOTELCHUCK: Yeah.

9 DR. MAURO: And anyway, I don't want to
10 lose perspective here. This nuanced argument that
11 I'm sure is impossible to resolve --

12 CHAIRMAN KOTELCHUCK: Well, and that
13 says there's a disagreement. Look, the issue is
14 not negotiation between the two parties.

15 DR. MAURO: Yeah.

16 CHAIRMAN KOTELCHUCK: The issue is if
17 each party believes its professional judgment is
18 correct. In the previous space, we had a
19 discussion. And one party, SC&A, agreed on Method
20 B that what NIOSH did was right and we came to
21 agreement.

22 DR. MAURO: Yes.

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1 CHAIRMAN KOTELCHUCK: But if SC&A
2 believes that it did the right thing, and it is open
3 to interpretation and then you made a professional
4 judgment, and NIOSH didn't, then there's
5 disagreement.

6 I do say -- although it shouldn't
7 influence us, so I won't say it -- that just looking
8 at this case alone, I just feel as if we have to
9 say we don't agree.

10 MR. KATZ: Yeah, I think you can say
11 that, Dave. I was going to just say, one of the
12 things that you -- I'm sure it's not worth it, the
13 level of effort. But it is a factual matter, in
14 reality. And there may be someone who has
15 historical memory at the site who could tell you
16 for sure whether lab technicians fall in that
17 bucket or not. I mean, so --

18 CHAIRMAN KOTELCHUCK: Okay. We could
19 do that.

20 MR. KATZ: There could be answer to it.
21 I'm not saying that that would be easy to get or
22 that it's worth the level of effort, but it's a

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1 factual matter and someone may have historical
2 memory to be able to --

3 CHAIRMAN KOTELCHUCK: No, no, no. I
4 would say that a judgment was made. This happened.
5 This happened already. And people had cases
6 decided. Those that we didn't -- that we're not
7 reviewing.

8 MR. KATZ: No. I'm just saying --
9 Dave, I'm just saying it's a factual matter whether
10 lab technicians got that X-ray or not.

11 It's actually not -- it's a judgment now
12 because we don't know. But people at the site,
13 some people at the site, associated with the site,
14 may actually know the answer to the question.

15 CHAIRMAN KOTELCHUCK: That may be
16 true.

17 MR. CALHOUN: And our X-ray guru, like
18 Scott says, is not here at the moment. So there
19 may be some other thing that she knows about that
20 we'll try to see if we can find.

21 CHAIRMAN KOTELCHUCK: Okay. We do
22 have somebody who -- from inside the groups here,

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1 who can say -- who might have said something that
2 would have affected it. Obviously, I'm dubious,
3 but it's perfectly -- let's try and find out what
4 we can, and if there's a factual matter that we can
5 resolve.

6 MR. CALHOUN: Give me a few days and
7 I'll look at it. And if I can't find anything, I'll
8 tell you I can't find anything.

9 CHAIRMAN KOTELCHUCK: Okay. And,
10 alright. What I was going to say then I stopped
11 before, was that we have an agreement on, I think,
12 almost all the other cases. And there's been
13 agreement, and that is good. So, one case that's
14 not in agreement. There's one case that's not in
15 agreement.

16 MS. BEHLING: However, as Ted is
17 saying, if we can get some clarity and make sure
18 that the TBD is very specific as to who falls under
19 this craft workers -- it's not for just this
20 particular case, but for obviously other cases out
21 there. And we want to be sure that the TBD is as
22 accurate as possible and takes away that as much

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1 judgment as we can from the dose reconstructors.

2 CHAIRMAN KOTELCHUCK: Okay. And
3 that's true. Certainly going forward, it would be
4 valuable to resolve. And we'll see how much it
5 impacts in this case.

6 Okay. Scott, you'll get back to us in
7 a few days.

8 MR. CALHOUN: That was Grady. Yes, I
9 will.

10 CHAIRMAN KOTELCHUCK: Grady, I'm
11 sorry. Excuse me.

12 MS. BEHLING: Okay. If we can move on.
13 If you'd like to move on.

14 CHAIRMAN KOTELCHUCK: It is a quarter
15 of 4:00. We've been meeting since ten of 2:00.
16 Would it be appropriate to take a comfort break now,
17 folks?

18 MR. KATZ: That sounds great.

19 CHAIRMAN KOTELCHUCK: Okay. Let's
20 take, what, ten minutes' comfort break?

21 MR. KATZ: Yeah, that would be super.
22 Thanks.

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1 CHAIRMAN KOTELCHUCK: Okay. We'll
2 resume at ten minutes of 4:00 Eastern Time. Okay.
3 See you in a few minutes.

4 (Whereupon, the above-entitled matter
5 went off the record at 3:43 p.m. and resumed at 3:53
6 p.m.)

7 MS. BEHLING: Okay, if you want, I can
8 start. I just wanted to make mention of two things
9 under the 17th set. I believe -- and someone
10 correct me here if I'm wrong -- that we did last
11 time discuss all of the blinds under the 17th set.

12 But I do want to go back to two of those
13 lines. And the first one is the Allied Chemical.
14 And if we recall, that was one we had a great deal
15 of discussion on regarding the radon issue.

16 CHAIRMAN KOTELCHUCK: Yes.

17 MS. BEHLING: And I think we sort of
18 resolved that. The other thing that was a little
19 bit odd to me, that seemed odd at the time, was that
20 NIOSH had used an approach of 10 percent of the
21 values in the OTIB-43 for calculating their
22 internal and external doses.

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1 And I wanted to just go back. I had
2 looked at it, but I wanted to go back and go into
3 NOCTS and be sure that that was consistently
4 applied. And when I did, all of the cases that I
5 looked at that had to do with the Allied Chemical
6 & Dye, there was a document in there called
7 "Instructions." And I did verify that I believe
8 all of the cases associated with Allied Chemical
9 & Dye did use these instructions.

10 I guess the one thing that I do want to
11 make mention of is that Bob Anigstein did send me
12 a note saying that what we had missed in some of
13 these discussions is that the representative
14 phosphate ore from Central Florida, associated I
15 guess with this particular site, contains, from his
16 research 1,200 becquerels per kilogram of
17 uranium-238. And also 1,460 becquerels per
18 kilogram of radium-226.

19 And these instructions, and the dose
20 reconstruction, does not consider radium in this
21 mix. And I'm not sure that we can really just
22 ignore this radium component. Perhaps, NIOSH can

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1 talk to that issue.

2 MR. CALHOUN: I certainly cannot, at
3 the moment, because that wasn't -- I thought this
4 was done. And so I put that case away.

5 CHAIRMAN KOTELCHUCK: Sure.

6 MR. CALHOUN: So I guess I'll have to
7 reopen it and look.

8 MS. BEHLING: Okay. Because --

9 MR. CALHOUN: Can you email me
10 Anigstein's findings or whatever so I can actually
11 make sense of this, please?

12 MS. BEHLING: Yes, I will. Okay.

13 The other thing -- I don't mean to
14 divert our attention here -- but, again, and I guess
15 in light of these blinds, when I see this type of
16 instructions in these files -- and we briefly
17 touched on this in the past -- when we do a blind,
18 we are following the hierarchy of data which is
19 looking at TBDs and OTIBs and documents that are
20 out there and published.

21 And it sounds again like this is one of
22 those guidance documents that is being used. It

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1 may be under the DR Tools folders that we can access
2 through the H drive, but it's not something that
3 SC&A would even know exists.

4 These type of instructions -- and I'm
5 glad to see that they're being applied
6 consistently, but if we were not assigned this
7 particular case as a blind, we may never have come
8 across these instructions. And we may never have
9 even questioned this radium issue.

10 And, I guess, the other thing that comes
11 to my mind is that during the one-on-ones for the
12 last set of DR reviews that we did -- in fact, that
13 Josie and Andy were on that one-on-one -- we had
14 encountered a Vallecitos case where there was one
15 of these templates that's embedded in the dose
16 reconstruction report. It's not a separate
17 document, as far as I can tell. I talked to David
18 Allen on that issue.

19 And I know that Josie and Andy both
20 recommended that this is something, perhaps, that
21 SC&A should be looking at because -- and perhaps
22 this is always already been discussed before the

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1 board meeting, I'm not sure -- but just in light
2 of this Allied Chemical, it brought that issue to
3 my mind again.

4 And I know at least that those two Board
5 Members felt that it was important that SC&A maybe
6 at some point be tasked with looking at all of these
7 templates and try to identify if we have seen cases
8 associated with sites that have these templates
9 embedded in the dose reconstruction reports. Just
10 something that I was throwing out there.

11 MEMBER BEACH: Kathy, from my memory,
12 we decided to put that to the special Work Group
13 for those reconstructions. Is that correct, Ted?
14 Do you recall?

15 MR. KATZ: That's exactly what I was
16 going to say, Josie.

17 MEMBER BEACH: Okay.

18 MR. KATZ: So, yeah, they sort of have
19 that on their plate to consider these sort of extra
20 instructions. In some cases, I think, the case is
21 that they're sites with very few cases. And so
22 that's part of the reason in some places.

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1 Well, what have you, I think it's become
2 clear to everyone that there are these other
3 procedures that are used in special circumstances
4 that are not getting reviewed through the TBD
5 reviews and so on.

6 MS. BEHLING: And in fact this Allied
7 Chemical & Dye instruction is -- it's not dated,
8 it's just a Word file that's in the file. I think
9 it's signed by Dave. I assume that's probably
10 David Allen. I'm not even sure, but it's not
11 dated. And it just talks about what his feeling
12 is, and, you know, why they should use the 10
13 percent in this case and so on and so forth. So
14 I'm not sure how many of these instructions are
15 being used in lieu of maybe more generic types of
16 TBDS or --

17 MR. KATZ: I think, I mean -- and Grady
18 can refresh my memory -- but Grady sent forward to
19 -- I know I distributed it to some people on the
20 Board. But Grady sent forward a listing of sort
21 of extra-TBD, meaning outside of the TBD, methods
22 and procedures. He collected those and sent them

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1 in a document forward, which I distributed.

2 MS. BEHLING: Okay. I was not aware of
3 that. Okay.

4 MR. KATZ: Okay. So I think someone at
5 SC&A has it. But I definitely distributed it to
6 embers of the Board.

7 MS. BEHLING: Okay. Just didn't want
8 that to fall through the cracks.

9 MR. KATZ: Yeah.

10 MS. BEHLING: So if we could get some
11 response for the Allied Chemical case regarding the
12 radium, and I will forward some information from
13 Bob Anigstein over to Grady. I think we need to
14 resolve that.

15 One more issue before I stop talking
16 here: the Rocky Flats case associated with the 17th
17 set. During the discussion of that particular
18 blind, we talked about the fact that we were not
19 able to reproduce some of the internal doses
20 because the version of IMBA we had didn't allow us
21 to do the ingrowth -- I don't -- but, Grady, you
22 had been working on trying to get us the most

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1 current version of that IMBA, and I don't remember
2 what happened to that somehow.

3 MR. CALHOUN: Yeah. We're having a
4 hard time getting it ourselves. I don't know,
5 there's a lot to it, but the guy who distributes
6 the thing is terminally ill. And he's not in the
7 United States. And there's some question as to who
8 actually owns the rights to the program. So, we're
9 actively trying to get that for us as well as for
10 you. So that's where we stand on that one.

11 MS. BEHLING: Okay.

12 MR. CALHOUN: Sorry.

13 MS. BEHLING: If you can keep us in the
14 loop on that, that would be appreciated.

15 CHAIRMAN KOTELCHUCK: Kathy, on the
16 Allied Chemical.

17 MS. BEHLING: Yes?

18 CHAIRMAN KOTELCHUCK: Whatever is
19 found, will that affect the blinds' decision? I
20 don't think so.

21 MS. BEHLING: No.

22 CHAIRMAN KOTELCHUCK: Is that correct?

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1 Right. Okay. I mean, it's certainly something
2 that we need to check. And I appreciate, you know,
3 having this pointed out about the radium-226.

4 MS. BEHLING: Well, I should say that
5 NIOSH's PoC on that blind was 45.9.

6 CHAIRMAN KOTELCHUCK: No, I see, I see.

7 MS. BEHLING: So, maybe -- I don't know
8 what the contribution of the radium will be.

9 CHAIRMAN KOTELCHUCK: No, but let me
10 ask, if you were to argue that that was a mistake
11 -- I mean, if you think, would that be categorized
12 as a mistake?

13 MS. BEHLING: Well --

14 CHAIRMAN KOTELCHUCK: That they
15 ignored something which they should have taken into
16 account?

17 MS. BEHLING: All I'm going to say is
18 based on the phosphate ore that was coming out of
19 Florida, there is a ratio of uranium to radium, and
20 the radium component seems to be even higher than
21 the uranium.

22 They consider uranium, but they didn't

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1 consider radium. And if there is a reason for
2 that, we need to know. But I just want to be sure
3 that that was considered.

4 CHAIRMAN KOTELCHUCK: And it should
5 have been.

6 MS. BEHLING: Yes. I think so.

7 MR. CALHOUN: Considered, maybe.
8 We've got to see what he found --

9 MS. BEHLING: Right.

10 MR. CALHOUN: -- and what he's making
11 these --

12 MS. BEHLING: That's what I said.
13 Considered.

14 MR. CALHOUN: Right.

15 MS. BEHLING: Perhaps it was
16 considered and it didn't contribute enough to the
17 dose. I don't know.

18 CHAIRMAN KOTELCHUCK: Alright. Okay.
19 Thank you. That clarifies it for me.

20 MS. BEHLING: Okay. And I believe the
21 last three blinds that we have to discuss are under
22 the 20th set.

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1 CHAIRMAN KOTELCHUCK: Right.

2 MS. BEHLING: And so now you can listen
3 to someone other than me, because I think Doug can
4 take care of the two Hanford blinds. And Ron
5 Buchanan, I think he's still on the phone I hope,
6 there's another Rocky Flats site that needs to be
7 discussed.

8 CHAIRMAN KOTELCHUCK: I see 20 blinds
9 here. I see, excuse me, six blinds under the 20th
10 set.

11 MS. BEHLING: That's correct. And
12 three of them, I believe, we have not discussed.
13 There were three that were disclosed during the
14 last --

15 CHAIRMAN KOTELCHUCK: Let me -- oh,
16 you're right. No. No. I'm checking back on my
17 notes. That's correct. The first three, the
18 three of them that Ron handled were reviewed and
19 there was agreement.

20 MS. BEHLING: Correct. And I believe
21 we still have a Hanford -- that was in Weldon
22 Springs -- Hanford, but Weldon Springs is the

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1 majority --

2 CHAIRMAN KOTELCHUCK: Right.

3 MS. BEHLING: And the Hanford case
4 that, I believe, Doug is prepared to discuss. And
5 then there's also a Rocky Flats case under the 20th
6 set that Ron Buchanan should be discussing.

7 CHAIRMAN KOTELCHUCK: Good. Okay.
8 Let's do that. First, Hanford.

9 MR. FARVER: Okay. This is Doug. If
10 we just look what's on the screen at the moment
11 under the case, where it says "Hanford WSP."

12 CHAIRMAN KOTELCHUCK: Yes.

13 MR. FARVER: If we could just go across
14 the board and kind of just give a look-see on the
15 doses. The external doses, there's a little bit
16 of difference: nine and 13. Internal doses,
17 similar difference: four and six. And then the
18 total dose, we show the differences. And then the
19 PoC differences, a difference of two percent in the
20 PoC. So, that's kind of the range that we're
21 looking at here when we go through the process.

22 CHAIRMAN KOTELCHUCK: Yes.

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1 MR. FARVER: Okay. Now Rose if you
2 would put up the -- let's see, get the right one.
3 The blind DR comparison file 12/2015 I believe is
4 the one. Hanford.

5 CHAIRMAN KOTELCHUCK: WSP.

6 MR. FARVER: Does it say WSP?

7 CHAIRMAN KOTELCHUCK: Yeah.

8 MR. FARVER: I'm trying to find the
9 right one. Oh, there it is. Okay. Alright.
10 Okay. Please scroll down to Page 7, Table 1.1.
11 And then I'll just give a little recap of this case.

12 CHAIRMAN KOTELCHUCK: You don't think
13 we should talk? You don't mention the organ,
14 right?

15 MR. FARVER: Okay. Let's --

16 CHAIRMAN KOTELCHUCK: Let's not
17 mention it.

18 (Comment redacted.)

19 CHAIRMAN KOTELCHUCK: Okay.

20 MR. FARVER: So that's kind of the
21 background. And then when we see the doses in
22 Table 1.1.

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1 CHAIRMAN KOTELCHUCK: Where there are
2 unusual cancers, probably we should not identify
3 them. Sorry.

4 MR. FARVER: Okay.

5 CHAIRMAN KOTELCHUCK: I tried to head
6 that off, but proceed.

7 MR. FARVER: Okay. Table 1.1, we can
8 see a comparison of the photon doses.

9 CHAIRMAN KOTELCHUCK: You know what,
10 Doug. I'm sorry. There'll be a transcript of
11 this. I don't believe we have any external folks
12 on the phone, on the line at this point. Can we
13 check that?

14 MR. KATZ: Well, there is no way to
15 check that, actually.

16 CHAIRMAN KOTELCHUCK: Okay. Well, we
17 should delete the last comment about the type of
18 cancer. It's an unusual enough type that it may
19 well identify a person, which we do not want to do.

20 MR. KATZ: The way to take care of that
21 is I will send a note to the people who do the
22 transcriptions.

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1 CHAIRMAN KOTELCHUCK: Exactly.

2 MR. FARVER: Okay.

3 CHAIRMAN KOTELCHUCK: Okay. Sorry.
4 But that's a general issue. Go ahead.

5 MR. FARVER: Okay. I just want to make
6 sure I don't say it again, because it's going to
7 come up. I believe it comes up later on where there
8 a difference where the organs used.

9 CHAIRMAN KOTELCHUCK: Okay. Well,
10 we'll just say there's a difference in the organs
11 used.

12 MR. FARVER: Okay. Let's just jump
13 down to Table 2.1 on Page 8. We'll go through a
14 comparison of the assumptions that we used.

15 Looks like both NIOSH and SC&A used
16 similar energy ranges. NIOSH did account for
17 neutrons. SC&A did not.

18 The dose conversion factors, NIOSH used
19 a 1 for the organ dose and SC&A used .845.

20 There a difference of -- NIOSH used a
21 correction factor -- I mean a -- yeah, a correction
22 factor of 1.4, and SC&A did not.

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1 The medical X-rays, very similar,
2 almost identical, eight exams on both cases.

3 Ambient dose, very similar documents
4 used, similar assumptions.

5 Okay. We get down to the internal
6 dose, and there's a little difference there. SC&A
7 assumed the best estimate and NIOSH used a little
8 bit of an overestimate, so we'll see a little bit
9 of a few differences as we go down through.

10 Okay, if we go down to Page 11, go down
11 to Table 2.3 and it will just show a comparison of
12 recorded photon and neutron doses.

13 Right off the bat, SC&A did not feel the
14 need to calculate neutron doses because, based on
15 the Weldon Springs Technical Basis Documents,
16 which we quoted up on Page 10, it's a very slight
17 possibility of neutron doses. So we did not
18 consider them, but NIOSH did.

19 And in the comparison of the photon
20 doses, you will see a very small difference. And
21 a lot of that has to do with NIOSH did use a
22 correction factor of 1.4. SC&A did not.

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1 And NIOSH used an organ dose conversion
2 factor of 1 for the higher energy photons, and SC&A
3 used the actual .845 dose conversion factor. And
4 those two items account for the differences.
5 Other than that, they are pretty much the same.

6 We move on to the photon doses, or the
7 missed photon doses, we can see that both SC&A and
8 NIOSH assumed 72 zeros, so they should come up with
9 the same dose. Once again, there's a slight
10 difference because NIOSH used a DCF of 1 and we used
11 the DCF of .845. That is the difference with the
12 missed photon dose.

13 NIOSH calculated the missed neutron
14 dose and SC&A did not calculate neutron doses.

15 Occupational medical dose. Both the
16 SC&A assigned 8 exams, Table 2.5. You can see we
17 come up with the same exact number for the Weldon
18 Springs plant. Hanford Site, the employee did
19 have a PFT exam, which is shown in Exhibit 2-1. I
20 understand that -- I guess it's OTIB-70 --

21 MR. CALHOUN: Seventy-nine, Doug.

22 MR. FARVER: Seventy-nine. It says

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1 you're not supposed to use these because they were
2 taken offsite. However, I did include it, because
3 it does not say anything about a hospital, and I
4 understand that the Hanford medical facilities
5 were located at the hospital. So I included it.
6 But that is the difference, that we included the
7 medical, the PFT exam from Hanford.

8 Let's see, if we go on down to the
9 ambient dose, SC&A determined the Hanford dose to
10 be the three months that a person was there, or four
11 months, from the Hanford Technical Basis Document
12 which gives 115 millirem per year. And we prorated
13 that down and it works out to 20 millirem for that
14 year.

15 NIOSH did something very similar. We
16 have some differences that were used where we
17 assumed 2,500 hours and NIOSH assumed 2,600 hours.
18 And that really accounts for the difference between
19 our 20 millirem and their 38 millirem.

20 NIOSH also determined the ambient dose
21 for 1957 of 43 millirem, where SC&A used coworker
22 doses for that time period at Weldon Springs. And

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1 we came up with 341 millirem, which is shown in
2 Table 2-6.

3 And the big difference is that we
4 assigned coworker doses based on the 50th
5 percentile value of Table 6.8 from the Weldon
6 Springs Technical Basis.

7 We move on down to the internal dose.
8 The employee wasn't monitored for internal doses
9 while at Hanford. At Weldon Springs, the employee
10 had several urine samples for the time period from
11 '57 through '64. SC&A used the best estimate
12 method.

13 Prior to 1960, all the bioassay results
14 were less than the detection limit. So we
15 performed a visual fit using IMBA and assumed a
16 chronic intake period for the time period from 1960
17 until '64.

18 In other words, everything before 1960
19 was less than the detection limit, so we started
20 with the period after that and went on through the
21 end of the employment period. And we came up with
22 uranium Type M of 225 picocuries per day.

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1 NIOSH used overestimating assumptions
2 and the highest bioassay result, which was obtained
3 in 1964, and calculated the intakes shown in Table
4 2-7, based on Type S uranium. So they had a much
5 higher intake, 200-and-about-57.8 picocuries per
6 day.

7 Both NIOSH and SC&A assumed recycled
8 uranium contaminants. And the way this works is
9 that's usually based off your uranium intake. So,
10 Table 2.8 shows the uranium contaminants based on
11 an intake of 225 picocuries per day.

12 And the ratios that were used in the
13 Fernald recycled-uranium, mixed-intake rate
14 calculator, both for natural and one percent
15 enriched. The dose works out to about 2.3 rem
16 total.

17 NIOSH used an overestimating method.
18 They started with 5,780 picocuries per day. The
19 approach would be similar to apply the conversion
20 or the fractions for the recycled contaminants.
21 They came up with 3.2 rem per day. But the organ
22 is different. And I don't know if you want me to

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1 specify which organs were used or not.

2 MR. SIEBERT: Well, to explain that
3 one, I almost think -- because I could explain that,
4 but without getting into the specifics it's very
5 hard to explain.

6 MR. FARVER: I understand that.

7 MR. SIEBERT: Well, okay, let me see if
8 I can explain it without getting too specific. In
9 OTIB-5, for this ICD-9 code, there is a footnote,
10 Footnote [identifying information redacted], to
11 discuss that a medical review is required when this
12 type of cancer is run into.

13 During that review, based on
14 information in the DOL file, it was determined that
15 the organ that NIOSH used would have been specified
16 in the DOL medical records rather than just
17 assuming the other one. So we had the
18 documentation behind it as to why we chose the one
19 we did over the other.

20 MR. FARVER: And where were those
21 records contained?

22 MR. SIEBERT: That would be in the DOL

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1 file, Page 301 of the DOL file.

2 MR. FARVER: Okay. And is that the
3 initial case file, DOL file?

4 MR. SIEBERT: Correct.

5 MR. FARVER: Okay. But there is a
6 difference for that ICD-9 code, and the footnote
7 is there on Page 18 of Kathy's report where it's
8 quoted from OTIB-5. And it depends what organ you
9 use, whether it is specified as one type or if there
10 is an internal review. Okay. Apparently, I did
11 not see that in the DOL file.

12 MR. SIEBERT: Well, the DOL file is
13 over 1,100 pages long, so I understand.

14 MR. FARVER: So that was one
15 difference. If we go back to Table 10, there's a
16 little bit -- there's a difference in the values
17 used to determine the recycled uranium mix.

18 The NIOSH person, I believe, used the
19 values from Table 5.11, which were in parts per
20 billion instead of the correct values. Is that
21 fair, Scott?

22 MR. SIEBERT: To tell you the truth,

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1 that was such a small portion of the differences,
2 I did not review that portion. I apologize.

3 MR. FARVER: Okay. And where you can
4 see that is if you compare Table 2.9 to 2.10, I
5 think. Oh, no. I'm sorry. It's 2.11, 2.11.
6 Sorry. Where you give the SC&A RU-to-U ratios and
7 the NIOSH RU-to-U ratios. And it just comes out
8 to using different conversion factors. But as
9 Scott pointed out, it is not a big dose concern,
10 it is just a QA concern. We'll call it that.

11 Both NIOSH and SC&A assigned dose from
12 thorium processing. The approach is almost
13 exactly the same for both NIOSH and SC&A. In other
14 words, it's pretty straightforward out of the
15 Technical Basis Document for Weldon Springs what
16 to use.

17 If you scroll down to the bottom of Page
18 19, there's two big differences. The doses wind
19 up differing by about a factor of seven, even though
20 the approach is the same. One has to do with the
21 choice of organ.

22 The second is that NIOSH assigned a dose

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1 from 230, thorium-230, instead of -232. And that
2 results in a substantial difference in the doses.

3 And then, lastly, environmental dose.
4 NIOSH and SC&A both did the environmental dose for
5 the short period while the person was at Hanford,
6 and it came out to be less than a millirem and was
7 not included.

8 So on top of Page 20 we can do a
9 comparison of the internal and external doses.
10 For the internal, we'll start first, a large part
11 of that is the difference in choice of organ.

12 CHAIRMAN KOTELCHUCK: Right.

13 MR. FARVER: And then the external
14 dose, I believe a big part of that is the neutron.
15 NIOSH assigned a neutron dose and SC&A did not,
16 which accounts for a couple of rem. PoC-wise,
17 we're within, you know, a couple of percent of each
18 other.

19 A comparison of the methodology.
20 NIOSH did the overestimating approach and SC&A did
21 the best estimate. NIOSH overestimated a little
22 bit on the DCFs by using 1 for the external dose.

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1 SC&A included a Hanford PFT under the
2 occupational dose. NIOSH did not.

3 And then on the internal doses, we
4 discussed those, a differences in -- even though
5 the approaches were similar, there was a difference
6 in the organs and the recycled uranium ratios used.

7 CHAIRMAN KOTELCHUCK: Okay. While
8 the number of rems are different, the PoCs don't
9 differ by much. And they're both on the same --
10 they both come to the same conclusion. Right?

11 MR. FARVER: Correct.

12 CHAIRMAN KOTELCHUCK: Okay. So,
13 that's agreement.

14 MR. FARVER: Okay.

15 CHAIRMAN KOTELCHUCK: Any comments,
16 anybody, or concerns?

17 Okay. Do you want to go on to the next
18 one, the Hanford PNNL?

19 DR. BUCHANAN: Do you want me to go on
20 the Rocky Flats to give you a break, Doug?

21 MR. FARVER: Sure. Go ahead.

22 CHAIRMAN KOTELCHUCK: Okay, fine.

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1 Yes, sure.

2 DR. BUCHANAN: I know how hard it is to
3 keep going.

4 CHAIRMAN KOTELCHUCK: Yes.

5 DR. BUCHANAN: Yes, this is Ron
6 Buchanan of SC&A, and we're looking at the Rocky
7 Flats plant, there.

8 And we see that we had pretty good
9 agreement on this one. And so we had similar
10 doses, we had similar PoCs, about 43 percent, and
11 dose around 11 rem.

12 And so if we look at this, it was a
13 [identifying information redacted]. It's Rocky
14 Flat plant, [identifying information redacted].

15 The worker got diagnosed with cancer in
16 2011. And, according to the DOL records and the
17 CATI reports, the worker worked at buildings 881,
18 444, and the 700 area during the first period of
19 employment. And trailers at the wind site close
20 to building 664 during the second period.

21 The worker was monitored for photon
22 exposure during most of the first employment period

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1 and the second employment period. There were a few
2 bioassays conducted.

3 We relied mainly on the TBDs for Rocky
4 Flat. And both SC&A and NIOSH came out with a PoC
5 less than 50 percent. Table 1.1 provides the
6 summary of the doses assigned and the resulting
7 PoC. And as we discussed briefly, they were
8 similar.

9 So we'll just briefly go over the ones
10 that were the same and discuss any of the
11 differences. And if there's any questions, stop
12 and let me know.

13 So, if we go to Table 2.1, we look at
14 the external dose assumptions and parameters, and
15 we see there that we pretty much agree on best
16 estimate, location.

17 Now this worker did go in and out, was
18 around the plutonium building quite a bit. So even
19 though it's clerk/secretary during the first
20 employment period, it wasn't like they sat in
21 administrative. They were out on the floor area
22 and working, and so this is the reason we assigned

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1 the plutonium building where most their work was
2 located.

3 We look at the table there, and we see
4 that we agree on most of all the parameters used.
5 The main difference in external dose, photon dose,
6 was the logarithmic distribution and some
7 triangular distribution by NIOSH, whereas we used
8 -- usually we use a straight distribution, whereas
9 NIOSH will go ahead, and the way I understand it,
10 they have program that looks at the best
11 distribution and assigns each year according to the
12 best distribution.

13 And we don't do that, so we come out with
14 similar results but not exactly the same. And this
15 is true on all of these here in this case.

16 Now, the missed dose, we used similar
17 parameters. We came up with 27 photons, 27 neutron
18 zeros. They came with 21, 25. Similar. Similar
19 LD values and DCFs.

20 And the neutrons, we assigned the same
21 energy range. Again the way theirs was assigned,
22 the distribution is slightly different, but

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1 similar.

2 Shallow doses, same parameters and
3 assignments. Ours has onsite external dose. We
4 see that we had similar values there. We used a
5 slightly different dose conversion factor. We
6 calculated what appeared that NIOSH used and came
7 out with a similar one. We had a constant, no
8 uncertainty; they had normal and triangle
9 distribution.

10 The medical, we had three documented
11 X-rays on both cases, same distribution
12 assignment. No problems there.

13 So we look at 2.2. We look at the
14 guidance there. Now this is the main difference
15 in this whole dose reconstruction, that this was
16 done before coworker intake was released. We did
17 it after NIOSH did theirs. And so they used the
18 OTIB-18 air sample data. We used the newer
19 coworker intake from TBD-5. And so we used a
20 different method than they did and we came out with
21 some different results, although not greatly
22 different.

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1 And so we looked briefly at the recorded
2 and shallow dose. If we look at Table 2.3, there
3 we see that this -- and Rocky Flats is a very
4 complicated site. And they use a different
5 dosimetry system depending on the year, how it's
6 recorded, and how you subtract out the information.

7 Because they record everything and then
8 you've got to subtract out the information.
9 You've got to remove the photon and neutron and
10 shallow dose according to these formulas. And we
11 had to use N over P value, so I gave that in Exhibit
12 A there to illustrate those values.

13 So each year you've got to look at
14 what's happening, what the dosimetry system was,
15 and back out individual doses. And so if we look
16 at Table 2.4, we see what we ended up with there.

17 The recorded doses, we see, are very
18 similar on the photon dose. Now the shallow dose,
19 there was some difference there because there was
20 an error in the records, in that for one quarter
21 in 1970, the shallow dose read less than the
22 penetrating dose. And it shouldn't have done

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1 that. You should always have more total shallow
2 dose than you do penetrating dose. And all the
3 other records in for this EE show that.

4 And so we treat it two different ways.
5 I treat it, SC&A treats it, as if they reversed the
6 values. And that's because it looked very similar
7 to the other entries.

8 NIOSH was more conservative, they said,
9 well, we'll use the skin dose as recorded. No,
10 we'll use the penetrating dose as recorded. We'll
11 add the dose to it to get the total dose, shallow
12 dose and then back out the skin dose.

13 And so they were more conservative than
14 I was, used what appeared to be the pattern in the
15 previous quarters and following quarters.

16 And so this did not affect the results
17 much except for the shallow dose, the
18 non-penetrating. NIOSH ended up assigning more
19 dose than we did because of the conservative
20 correction of that error in a recorded dose.

21 Now there were periods that the worker
22 was not monitored. So SC&A used the 50th

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1 percentile. And we see that, if we look at Table
2 2.5, and we see the coworker dose again.

3 And NIOSH used the same assumption, 50
4 percent coworker dose. And we had some difference
5 in the distribution assignment. And also the
6 error post-1970 assumptions in the recorded dose.

7 And so we see that the 3-250 keV doses
8 were very similar, about 1.5 rem. The shallow dose
9 was slightly different because of some of the
10 assumptions.

11 And just the missed dose, we
12 calculated, we just went through it and looked if
13 it was recorded every quarter. And if the person
14 was badged monthly, then we just counted the
15 periods in between. NIOSH, I think, used a best
16 estimate-type method to derive the zeros. We came
17 up 27, they came up 21; similar values. And so we
18 assigned the doses as shown in 2.6.

19 NIOSH, also similar doses, and assigned
20 them using the same distribution, just slightly
21 different number of zeros counting.

22 Neutron dose, since the worker was

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1 employed in the plutonium area, we used the N over
2 P value to sort out the photon and the neutron dose.

3 Now in addition to the sorting out, you
4 also have to look at NDRP. When Rocky Flats, when
5 they used NTA neutron film, they went back and
6 reread a lot of the earlier neutron doses. And so
7 some of the files will have NDRP data in it that
8 supersedes the recorded dose.

9 So we went back and looked back at the
10 NDRP data and then incorporated that in for 1970,
11 when it was available, used N over P values to count
12 the information in other years. And we agree
13 pretty much with NIOSH in the dose assignments.

14 And so we can look at Table 2.7 there.
15 We had 457 millirem, and they had 445. Now, the
16 main difference there was some rounding. You go
17 through quite a bit of distribution or parameters
18 adjustments on these, the conversion factors and
19 such.

20 And so it depends whether the tables are
21 truncated, rounded, or if NIOSH in their workbook
22 carries it out to the ninth decimal point, exactly

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1 what value you get. So, considering that, the
2 values are pretty close, and no issue there.

3 Coworker neutron dose. So we used a 50
4 percent coworker dose, according to the TBD, and
5 so did NIOSH. And again the differences come, as
6 I just stated, in the constants, parameters
7 applied, how far you carry out the decimal point.
8 And also how you figure the time period fractions
9 by months, days, etc.

10 If a person had coworker dose for, you
11 know, three and a half months, you calculated that
12 on a monthly, 365 days a year, or used some kind
13 of program, gave you slightly different values on
14 the fraction.

15 And so we see it in Table 2.8 there. We
16 have similar doses in our coworker dose assignment.
17 Now we did the same thing for neutron dose. It came
18 out very similar, 27 zeros. They came out 25.
19 They assigned it just like we did the neutron dose.

20 We see Table 2.9 there, very similar
21 doses. And, again, some of the differences are the
22 difference in mainly the number of zeros we counted

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1 compared to what NIOSH did, and then the other
2 factors I spoke of. So we had no real issues there.

3 Now, Rocky Flats is one of the few cases
4 that you still, according to Procedure-60, assign
5 onsite ambient external dose. They're monitored
6 for seven years. And we followed that procedure.
7 So did NIOSH. And we come out with very similar
8 doses.

9 We did find that, I think, the dose
10 conversion factor, although I can never really find
11 what they used, it was similar to ours but slightly
12 higher. And so they assigned .018 and we assigned
13 .016 rem. So we had no real issues there.

14 Medical dose. Okay. We used the
15 records and we assigned the doses according to the
16 recorded X-rays and the TBD-3. We found that they
17 were 210 there. You see that we assigned about .10
18 rem, and they assigned .033.

19 And the main difference in external
20 dose that we found was that, apparently, the Rocky
21 Flats workbook, under the X-ray data tab, that
22 comment just above 210, Table 2.10. If you want to

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1 go to Table 2.10? Okay, just above that I list the
2 issue.

3 The TBD lists one value for the lumbar
4 spine used. And, apparently -- and I gave their
5 column and rows there -- in the Rocky Flats workbook
6 they list the lower value. And so this total came
7 out to, they assigned a lower value than we had.
8 And so, you know, I guess, this needs to be checked
9 out, why the workbook has a lower value than what
10 the tables have.

11 MR. SIEBERT: Hey, Ron. This is
12 Scott. I'll butt in at this point, if that's okay.

13 DR. BUCHANAN: Yes.

14 MR. SIEBERT: I've got an answer on the
15 X-rays. The reason for that is the Rocky Flats TBD
16 was older than OTIB-6. OTIB-6 was updated in 2011
17 and reflected updated values, which the TBD
18 actually uses the OTIB-6 values and references
19 OTIB-6.

20 So once OTIB-6 was updated, we updated
21 the values in the tool to reflect what the OTIB-6
22 values are. The Rocky Flats TBD, the medical TBD,

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1 needs to be updated to reflect those numbers as
2 well. We agree with that. However, just during
3 the period until we get a TBD updated, if we still
4 have the root document, such as OTIB-6 reference,
5 we'll use that in the tool and use the more recent
6 values.

7 DR. BUCHANAN: Okay. So we were going
8 by the TBD and it had an older version of the OTIB-6
9 values in it. And Rocky Flats workbook, which we
10 generally don't use unless we really need to, had
11 updated values from a new OTIB-6. And so that's
12 the reason their values were lower than ours.

13 Okay. So I'll finish the internal
14 dose. We see that this is the main difference in
15 the whole dose reconstruction. Although there
16 wasn't a lot of difference, this was the main one,
17 in that we performed our dose reconstruction after
18 NIOSH had performed theirs. When they performed
19 theirs, the coworker dose was not available. It
20 came out in September of 2014, and the dose
21 reconstruction was done in 2013.

22 So they used the air sampling data in

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1 OTIB-18, of August of 2005. And so this is where
2 the difference came in. And so I will go over how
3 we assign dose and then look at how this came out
4 differently.

5 We assigned dose, SC&A used the
6 coworker dose because that's what we -- the person
7 had external monitoring and/or we used coworker
8 dose for external. So it was natural that we used
9 coworker for internal.

10 He had received some whole body counts,
11 but they were, you know, normal backgrounds and
12 such. And so we used coworker dose intakes and
13 used those in the chronic annual dose workbook.
14 And assigned the dose accordingly for the isotopes
15 there, which is uranium-234, plutonium isotopes,
16 and americium.

17 And so we came out -- okay, now, in our
18 case, OTIB-49 had been issued and so we looked at
19 the -- this is uranium, this was a urinalysis that
20 the coworker data was taken from, and so we applied
21 the plutonium Super S according to OTIB-49, and
22 came out with the doses showing in Table 2.11, a

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1 total of plutonium plus uranium of 3.3 rem.

2 Now, NIOSH performed this before the
3 coworker data was released, the way I understand
4 it, that is why I had to query this out. And so
5 they used the air sampling data, OTIB-18, and
6 arrived at one rem.

7 And so I looked at the difference there,
8 and if you go down and look at the actual doses
9 calculated before you do Super S, before you apply
10 OTIB-49, just below Table 2.11 there, I explained
11 that we got very similar doses, about one rem a
12 piece.

13 And so when I applied the Super S for
14 the uranium analysis then it increased it by the
15 last years entered into the table, increased it to
16 about 3 rem. And so this is the reason there was
17 a difference in the internal dose assignment as far
18 as I can tell.

19 Now for some summaries in doses, Table
20 3.1, we see that the external doses were very
21 similar. Internal doses were different, didn't
22 play as big a role as external doses. So the PoCs

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1 both came out to about 40. Theirs came out to about
2 43 percent, and ours came out 43.8. So we see that
3 there were some differences, like we always see,
4 in the number of zeros. There were some
5 differences in the distribution assignment that we
6 usually see. And the main difference was the use
7 of coworker internal dose as opposed to the OTIB-18
8 internal intakes. And so that's where we're at on
9 that case.

10 CHAIRMAN KOTELCHUCK: So alright.
11 Good. Good. Comments? Questions?

12 MEMBER MUNN: I don't think there's
13 much to be said here. Looks like good agreement
14 to me.

15 CHAIRMAN KOTELCHUCK: Looks like fine
16 agreement.

17 MEMBER MUNN: I can see no argument
18 with either approach and the end result is very
19 close. Looks like it's good to go, to me.

20 CHAIRMAN KOTELCHUCK: Agreed?
21 Others?

22 MEMBER BEACH: I agree also.

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1 MEMBER RICHARDSON: I agree.

2 CHAIRMAN KOTELCHUCK: So we have
3 agreement on that one. So there's only one left.
4 However, there are time considerations at this
5 point. It's a quarter of 5:00, East Coast time.
6 The last one is the second Hanford, in which there
7 is good agreement. It's pretty far from
8 compensable and both groups agree.

9 Doug, is it possible to go through this,
10 or summarize what the major differences are?
11 These are both far from compensable.

12 MR. FARVER: Yes. I think it is.

13 CHAIRMAN KOTELCHUCK: Good. Could we
14 do that and then finish up?

15 MR. FARVER: Yes. Okay.

16 CHAIRMAN KOTELCHUCK: Is that okay
17 with other members of the Subcommittee?

18 MEMBER RICHARDSON: That's fine with
19 me.

20 CHAIRMAN KOTELCHUCK: We may go over a
21 couple of minutes. Go ahead, Doug.

22 MR. FARVER: Okay. If we put up the

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1 comparison report and just jump right to -- we can
2 jump right to Page 6, Table 1.1 and we go through
3 and discuss which doses we really want to talk
4 about.

5 CHAIRMAN KOTELCHUCK: Good.

6 MR. FARVER: A lot of them are pretty
7 similar. I'll wait until we get to that point.

8 CHAIRMAN KOTELCHUCK: Here we are.

9 MR. FARVER: Okay. Table 1.1, if we
10 just scan across line-by-line. Less than 30 keV
11 photons, looks like everyone's pretty similar.
12 Same thing for the 30 to 250 keV recorded photons.
13 Everybody's pretty close.

14 The neutrons, if you want me to give you
15 the story on the neutrons, it has to do with the
16 number of years. NIOSH chose to assign neutrons
17 for less years than SC&A did. The method's the
18 same, it's just the number of years.

19 The missed dose, the less than 30 keV
20 photons, NIOSH did not assign them separately for
21 the skin doses, and the [identifying information
22 redacted] doses are exactly the same.

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1 We get into the missed dose for the 30
2 to 250 keV photons, and I can tell you it has to
3 with the number of zeros. We assumed a biweekly
4 and then monthly, and NIOSH assumed a weekly
5 exchange and then a monthly exchange. And
6 therefore they had a larger number of zeros, and
7 therefore the doses would be higher.

8 The missed neutron doses, once again
9 has to do with the number of years. NIOSH chose
10 to assign neutron dose for a smaller number of
11 years, and that's the difference in the dose.
12 Ambient dose about the same.

13 Medical dose, there's a little
14 difference on the skin. So it would be the skin
15 on the chest. And that's probably one you want to
16 talk about. It has to do with the locations that
17 each of us chose as the locations of the cancer
18 site.

19 Hot particles. NIOSH assessed from
20 hot particles. SC&A did not.

21 MR. SIEBERT: I'm sorry. Doug, do you
22 want to go ahead and discuss that real quick? The

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1 X-ray one?

2 MR. FARVER: I thought we'd drop down
3 to that point in it. I mean, I was just trying to
4 hit the highlights and see what they wanted to
5 discuss.

6 MR. SIEBERT: That's fine with me.

7 MR. FARVER: That will be one of them.

8 MR. SIEBERT: You got it.

9 MR. FARVER: The internal dose, we can
10 look across there. There's a little difference in
11 the alpha dose for the skin. Then all the way
12 across.

13 But then you drop down to your photon
14 and electron doses, and they're pretty similar.
15 And then you'll see that the bottom the differences
16 in the PoCs for the separate cancers. And then,
17 let's see, the overall PoC difference was 36.43 for
18 SC&A and 42.31 for NIOSH.

19 Okay. Now, of those, which ones do you
20 think you would like to discuss? I think we need
21 to talk about the medical. Do you have any
22 preference? Or do you just want me to go down and

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1 give you some of the big differences, which would
2 be the years for the neutrons, the medical. Okay.
3 We'll just drop down to the neutron doses.

4 CHAIRMAN KOTELCHUCK: Okay.

5 MR. FARVER: On Page 9. Okay. SC&A
6 assigned neutron doses from 1950 to 1971 based on
7 the penetrating photon doses and the neutron to
8 photon ratio that's given in the Technical Basis
9 Document. NIOSH defined for shorter period from
10 1964 to 1969. So, in Table 2.2 you'll notice the
11 big difference in the neutron doses, and that's
12 pretty much the reason, is the shorter time period.

13 MR. SIEBERT: The reason we did that is
14 based on the work, the type of work the individual
15 was doing, and the location. Such as in the early
16 '50s, they were a [identifying information
17 redacted] in the 300 area; mid-'50s, [identifying
18 information redacted] in a metal hut close to the
19 3706 building, which is not a neutron facility;
20 '58, there's no employment; '59, there's only one
21 month of employment, no monitoring. So, it seemed
22 like low potential. '60 to '62, there's no

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1 employment. And, starting in '63, they were
2 rehired for a short amount of time. There doesn't
3 appear to be any exposure during that time frame.
4 Then they came back in October and there's no
5 bioassays for the rest of the year.

6 Then, starting in '64, which is when we
7 started assigning neutrons, there was unknown
8 locations and building 326. And the badge house
9 in the 300 area. All those areas, if I remember
10 correctly, are neutron locations, which is why we
11 assigned them as well.

12 And then from '68 through '74, he was
13 in the 700 area working with a whole body counter,
14 so neutrons did not seem appropriate during that
15 timeframe for ours. So it was based on location.

16 MR. FARVER: The worker was employed
17 there from [identifying information redacted] or
18 so. So, there was a huge history of different
19 positions throughout the time period.

20 CHAIRMAN KOTELCHUCK: Okay. Are
21 there -- am I on?

22 MR. KATZ: Dave. You're on.

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1 CHAIRMAN KOTELCHUCK: Yeah, I was on.
2 Are there other ones that we want to look at?

3 MR. FARVER: The next major one would
4 be the medical.

5 CHAIRMAN KOTELCHUCK: Okay.

6 MR. FARVER: And this does come up from
7 time to time. So it's probably something everyone
8 should be aware of.

9 CHAIRMAN KOTELCHUCK: Okay.

10 MR. FARVER: If we look at Table 2.4,
11 on top of Page 11. And the main one is the
12 [identifying information redacted] on the chest.
13 Now, gosh, I guess in PROC-61 it is several
14 different locations for skin cancer. And I don't
15 remember exactly how many, Scott. It's got to be
16 15, 20 different locations?

17 MR. KATZ: Yeah, you're right. There
18 are a lot.

19 MS. BEHLING: I thought it was closer
20 to 40.

21 MR. FARVER: It's a lot.

22 MS. BEHLING: Forty-three, I think.

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1 MR. FARVER: And this is just a good
2 example of how much difference it can make from what
3 you choose. Now, what we chose, we chose left
4 torso, base of neck to end of sternum. NIOSH chose
5 front torso, back of neck to end of sternum, as the
6 cancer location.

7 So when you go back and look and see,
8 well, where is the cancer located, the best I could
9 find by looking at the medical records was left
10 chest.

11 Now, sometimes, if you're lucky, you'll
12 see a drawing in the medical records where it will
13 actually show you the location. Not too often.
14 So this can become something that's not very easy
15 to determine. Sometimes it is easy.

16 In this case, I am not saying I made the
17 right choice or the wrong choice, I'm saying
18 there's a huge difference in the choice you make.
19 But that is the difference in the doses. It all
20 has to come down to choosing the parameter of the
21 location of the dose.

22 MR. SIEBERT: And I agree

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1 wholeheartedly with Doug that it's often a digging
2 through the records issue.

3 In this case, you're right, the medical
4 X-ray -- let me see here -- NOCTS' description of
5 the dose or the cancer was left chest. Further
6 digging into the DOL initial file, on Page 40,
7 actually had the discussion of the sternum chest
8 for this specific [identifying information
9 redacted].

10 So, since the sternum was mentioned as
11 opposed to just the left part of the chest, it made
12 more sense to use the front of the torso rather than
13 the left side of the torso.

14 MR. FARVER: You know, I'd go along
15 with that except both descriptions have sternum in
16 them. They both say base of neck to end of sternum,
17 except one says left torso and one says front torso.

18 MR. SIEBERT: Well, the sternum is in
19 the front.

20 MR. FARVER: I understand, but that's
21 why -- that's what's confusing about where it say
22 left torso, base of neck to end of sternum.

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1 MR. SIEBERT: Well, that would be the
2 left side of the torso on that -- that gives you
3 a range, a vertical range. There is no sternum on
4 the left side of the chest, obviously, or the left
5 side of the torso. It's in the front.

6 MR. FARVER: I understand that, but
7 your argument that you just said was that because
8 it mentions sternum in the document, the medical
9 document, you chose front.

10 MR. SIEBERT: Yes. What I'm saying
11 is, the left torso, there is no way to describe a
12 north-south, a vertical difference, other than
13 using the neck and the sternum, because there is
14 nothing on the left side of the torso that you can
15 call the bottom part. You're just saying it's the
16 bottom part of the sternum.

17 MR. FARVER: Okay. So if there was a
18 cancer in that location, how would you describe it?

19 MR. SIEBERT: In what location?

20 MR. FARVER: Let's say it was on the
21 left side of the torso, in that location between
22 the neck and end of sternum.

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1 MR. SIEBERT: So you're referring to
2 under the arm, basically? The left side of the
3 torso? I mean, I can't classify something. All
4 I can say is the records mention the sternum
5 specifically, and the sternum is in the front
6 portion of the body.

7 MR. FARVER: And what I'm saying is
8 that PROC-61 mentions sternum specifically, too.
9 My point is --

10 MR. SIEBERT: Also it's stating what
11 the vertical -- what the top and the bottom part
12 of the vertical is. There is nothing on the body,
13 on the left side of the body, to say what the bottom
14 part is on your left side of your body.

15 All it's doing is it's talking about the
16 front side of the body to reference how high and
17 how low the area would be on the left side of the
18 torso.

19 MR. FARVER: My point is that PROC-60
20 may have a -- there may be a better description that
21 could be used for the left torso in that area.
22 That's all. And I'm not arguing the location of

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1 the sternum. I'm just saying that it's probably
2 not the best description to use. But, anyway, this
3 is what can result from using different locations
4 for your X-ray exams.

5 CHAIRMAN KOTELCHUCK: There's no --
6 there's a distinction, but there's no difference
7 in the -- no significant difference in results?

8 MR. FARVER: No.

9 CHAIRMAN KOTELCHUCK: Right?

10 MR. FARVER: Not in this case.

11 CHAIRMAN KOTELCHUCK: Right. Right.

12 MR. FARVER: Because you are looking at
13 a single exam. Now, if it had been several years
14 of exams, it could make a huge difference.

15 CHAIRMAN KOTELCHUCK: Yeah. Yeah.
16 Are there further things we need to talk about?

17 MR. FARVER: I don't believe so.

18 CHAIRMAN KOTELCHUCK: I hope not.

19 MR. FARVER: I think I hit the
20 highlights.

21 CHAIRMAN KOTELCHUCK: Good. Good.

22 And there's agreement. So, again, unless somebody

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1 has a comment that they want to make, we should just
2 record agreement.

3 Hearing none, I think we're about to
4 finish. We will need to think about the next
5 meeting. We probably need to go on. We've now
6 resolved all the blinds, which is very good, for
7 our Secretary's report. Except the one --

8 MEMBER BEACH: Allied Chemical.

9 CHAIRMAN KOTELCHUCK: Except, the
10 Allied, of course. Yes. And that will come out.

11 And then we, frankly, need to just go
12 on and start going into Sets 14 through 18. We
13 started a long time ago. So, what should we
14 have--an early December meeting? Or a December
15 meeting, yeah, early?

16 MR. KATZ: That time frame makes sense
17 to me. Why don't I send out a scheduling request
18 for that timeframe to everybody. And then,
19 instead of doing it on the phone here --

20 CHAIRMAN KOTELCHUCK: Right.

21 MR. KATZ: Unless you want, I mean, if
22 folks want to tell me right now on the phone since

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1 you're all on, bad dates in early December, then
2 I'll avoid those when I send out the scheduling
3 request.

4 CHAIRMAN KOTELCHUCK: Well, I think
5 that's -- go ahead.

6 MEMBER CLAWSON: The 25th.

7 CHAIRMAN KOTELCHUCK: Yes, right.

8 (Laughter.)

9 MR. KATZ: That's not early December,
10 but --

11 CHAIRMAN KOTELCHUCK: Al right.
12 Okay.

13 MEMBER MUNN: Early. E-A-R-L-Y.

14 CHAIRMAN KOTELCHUCK: Right.

15 MEMBER BEACH: Ted, this is Josie.
16 I'm not available from December 2nd through the
17 holidays, so the first is --

18 MR. KATZ: Okay. That's all of early
19 December, basically.

20 MEMBER BEACH: Yes.

21 CHAIRMAN KOTELCHUCK: Okay. That's
22 very helpful to know.

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1 MEMBER BEACH: The first through the
2 30th.

3 MR. KATZ: I forgot. I remember now,
4 but you have a trip.

5 MEMBER BEACH: Yeah.

6 CHAIRMAN KOTELCHUCK: Okay. If we
7 can, the last week in November after Thanksgiving.

8 MR. KATZ: Now, how does that look, the
9 end of -- well, Thanksgiving's kind of late this
10 year, I think.

11 MEMBER MUNN: It is. It's the 26th.
12 It's the last week.

13 MR. KATZ: So that is the end of
14 November, I think.

15 MEMBER BEACH: Yeah, it is.

16 CHAIRMAN KOTELCHUCK: So shall we do
17 something in early January?

18 MR. KATZ: It sounds like we need to,
19 yes.

20 CHAIRMAN KOTELCHUCK: Yes.

21 MEMBER BEACH: Okay.

22 MEMBER MUNN: Or we could do, when we

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1 say it's the end of November, we're not taking into
2 consideration Monday the 30th and December 1st.

3 MEMBER BEACH: Exactly. I'm good both
4 of those days.

5 CHAIRMAN KOTELCHUCK: Okay, check on
6 those two dates, everyone.

7 MR. KATZ: I'm sorry. Something
8 happened. Anyone there?

9 MEMBER BEACH: Yeah.

10 MEMBER MUNN: Yeah.

11 MR. KATZ: Oh. Okay. So?

12 MEMBER MUNN: Josie said she was good
13 those two days.

14 MR. KATZ: So, she's good the 30th and
15 December 1st?

16 MEMBER MUNN: Yes.

17 MEMBER BEACH: Yes.

18 MR. KATZ: So is everyone else who's on
19 the phone good those two days?

20 MR. CALHOUN: I am.

21 MR. KATZ: How about, so, David
22 Richardson, December 1st?

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1 Maybe we don't have David anymore.

2 Brad, December 1st?

3 MEMBER CLAWSON: At this point, I am,
4 yes.

5 MR. KATZ: Okay. You're not taking
6 off for Christmas yet on December 1st.

7 MEMBER CLAWSON: Well, I'm thinking
8 about it.

9 (Laughter.)

10 MR. KATZ: Okay. Alright. So I'll
11 check with David and John Poston about December
12 1st. But if everyone else is good with that, why
13 don't you pencil that in, December 1st.

14 MEMBER MUNN: Okay.

15 MR. KATZ: I'll check with those two.

16 MEMBER RICHARDSON: Hey.

17 MR. KATZ: Yes. Who's that?

18 MEMBER RICHARDSON: David Richardson.

19 I'm sorry. I was --

20 MR. KATZ: Oh, okay. Are you good for
21 December 1st?

22 CHAIRMAN KOTELCHUCK: I got cut off of

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1 the last minute. So basically we're finished. We
2 have a couple of dates to check out for --

3 MR. KATZ: Well, so, David, December
4 1st, does that work for your schedule?

5 MEMBER RICHARDSON: That's a Tuesday
6 right?

7 MR. KATZ: Yes.-

8 CHAIRMAN KOTELCHUCK: Oh, you're
9 right. I should check. But I believe that we'll
10 -- and I'm almost certain, hold it. December.
11 But you're right, I should check. December 1,
12 yeah. And November 30th, December 1, yes.

13 MR. KATZ: Okay. So, let's everybody,
14 December 1, let's plan on that. I'll check with
15 Dr. Poston.

16 CHAIRMAN KOTELCHUCK: Okay. That
17 sounds good. And, alright, folks, thank you all
18 very much. We got a lot accomplished.

19 MR. KATZ: Fun day.

20 CHAIRMAN KOTELCHUCK: Okay.

21 MEMBER BEACH: Thanks much.

22 CHAIRMAN KOTELCHUCK: Bye-bye.

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1 MEMBER BEACH: Bye-bye.

2 CHAIRMAN KOTELCHUCK: Have a good
3 weekend.

4 MR. KATZ: Bye.

5 (Whereupon, the above-entitled matter
6 was concluded at 5:09 p.m.)

7

8