

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

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

+ + + + +

SEC ISSUES WORK GROUP

+ + + + +

TUESDAY
OCTOBER 28, 2014

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The Work Group convened via teleconference at 1:30 p.m., Eastern Daylight Time, James M. Melius, Chairman, presiding.

PRESENT:

JAMES M. MELIUS, Chairman
GENEVIEVE S. ROESSLER, Member
PAUL L. ZIEMER, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official
BOB BARTON, SC&A
NANCY CHALMERS, ORAU Team
HARRY CHMELYNski, SC&A
STU HINNEFELD, DCAS
TOM LaBONE, ORAU Team
JENNY LIN, HHS
JOYCE LIPSZTEIN, SC&A
ARJUN MAKHIJANI, SC&A
JOHN MAURO, SC&A
JAMES NETON, DCAS
LaVON RUTHERFORD, DCAS
DANIEL STANCESCU, DCAS
JOHN STIVER, SC&A

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

2 (1:32 p.m.)

3 MR. KATZ: Welcome, everyone.

4 This is the Advisory Board on Radiation and
5 Worker Health. This is SEC Issues Work
6 Group. For everyone on the line, the
7 materials that may be discussed today are
8 posted on the NIOSH website along with the
9 agenda for the meeting. And that's under the
10 Board section, scheduled meetings, today's
11 date.

12 So folks on the line, you can
13 follow along with the documents to the
14 extent that they get referenced. I'm not
15 sure they'll all be referenced today, but
16 they're there.

17 We're not talking about a
18 specific work site, so I don't think we need
19 to address conflict of interest for any of
20 the Board Members or for staff. So I think

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1 that covers it.

2 And I already have the Board
3 Member attendance because I have Dr. Melius,
4 Chair, and Dr. Roessler, and Dr. Ziemer on
5 the line. But do we have any other Board
6 Members that are on the line? Okay. How
7 about NIOSH/ORAU team?

8 (Roll call)

9 MR. KATZ: Okay then, Jim, it's
10 your meeting.

11 CHAIRMAN MELIUS: Okay. Welcome,
12 everybody. This is a continuation of a
13 meeting we had in, I believe in Idaho Falls
14 where we were just working on sort of issues
15 related to coworker data sets. And some of
16 these were sort of statistical issues that
17 we had started with some time ago.

18 But we also felt that it was
19 important to come up with some sort of
20 broader, more general criteria for the
21 development of an evaluation of coworker
22 data sets.

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1 So Jim Neton has been working and
2 putting together a document on that effect
3 with input from the Work Group and others to
4 that. So I expect that we'll spend most of
5 our time today on the first item here to
6 that.

7 There are a couple other issues
8 that are somewhat related to this, the
9 second and third items on the agenda. And
10 then I'm not sure how much time we'll have
11 to get to those, and then we also have, we
12 just want to, we briefly talked about what
13 we will do for the Board meeting, which is
14 coming up very shortly, in fact next week.

15 So I think I'll start by turning
16 it over to Jim. I believe you're going to
17 start the presentation and then we'll react
18 to that as we go through it. I'm not sure
19 exactly what your plans were.

20 DR. NETON: Sounds good to me.
21 Okay, I just want to give an update as to
22 what NIOSH has been about since the meeting

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1 we had in Idaho.

2 And to start the discussion, well
3 I've been busy revising the implementation
4 guide, the draft implementation guide we
5 talked about at the last Work Group meeting.

6 And then I said in my transmittal
7 of October 13, my email that I've tried to
8 incorporate comments from the 250 page
9 transcript of that meeting as well as some
10 individual input I received from Dr. Melius
11 and SC&A.

12 But before I get to that, I want
13 to talk a little bit about the evaluation
14 and differences between strata that we
15 discussed, as well, at the last meeting.

16 If you recall, NIOSH has been
17 attempting to come up with some alternative
18 way of determining whether or not data sets
19 should be stratified. The first path, of
20 course, was in RPRT-53 that talks about the
21 Monte Carlo permutation test or the Peto-
22 Prentice test.

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1 And those are based on purely
2 statistical criteria. So we set about
3 trying to look at other ways that might be
4 employed. And the first task after that, you
5 remember we looked at the significant
6 difference in dose, the 100 millirem dose.

7 And we evaluated that. It turned
8 out 100 millirem didn't make any difference
9 in the PC for all the cases we evaluated.
10 But that didn't seem to go anywhere as well.

11 And then we put forth the concept
12 on looking at the 95th percentile that we
13 would assign for a heavily exposed worker
14 versus applying the coworker model, a full
15 distribution of that coworker model if the
16 data were indeed stratified and more
17 representative of that worker population.

18 I've got up in our Live Meeting
19 here just to refresh everybody's memory, the
20 short report that Daniel Stancescu and I put
21 out on July 7 which kind of went through the
22 basis of that.

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1 And at the end result, I would
2 just like to go back to the table that we
3 generated which showed that, at least in our
4 mind, that it would take at least a factor
5 of two difference in the geometric mean of
6 the stratified model to be more claimant-
7 favorable than just merely assigning a 95th
8 percentile.

9 That seemed to be pretty solid.
10 And I don't know if you can all see the
11 Table 1 that's on Live Meeting, but we
12 evaluated all the cancers that have IREP
13 models.

14 And they range anywhere from the
15 geometric mean difference of 4.1 all the way
16 down to the lowest value which was 2.07 that
17 covered the urinary organs excluding the
18 bladder. So that was sort of the worst case
19 scenario in our mind. It would be at least
20 a factor of 2 difference.

21 Now just to refresh everyone's
22 memory, again the --

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1 MEMBER ZIEMER: Can I interrupt?

2 I'm not seeing anything on live meeting.

3 DR. NETON: Okay. Can anyone see
4 it?

5 MEMBER ROESSLER: I'm not there
6 yet. I'm still trying to get on.

7 (Simultaneous speaking.)

8 MR. KATZ: No, Jim, nothing's
9 showing.

10 CHAIRMAN MELIUS: Okay. I
11 thought it was just me.

12 DR. LIPSZTEIN: No, nothing is
13 showing.

14 MEMBER ZIEMER: I saw something
15 momentarily, it looked like your cover
16 sheet. And then it's disappeared again.

17 DR. NETON: Okay, my desktop is
18 off. Okay, is my desktop up there now?

19 MR. KATZ: Yes.

20 MEMBER ZIEMER: I see the
21 desktop.

22 DR. NETON: I should be able to

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1 just start this Word document, should show
2 up, right?

3 MR. KATZ: Yes, it should.

4 DR. NETON: Okay. Is it there?

5 MR. KATZ: Yes, yes.

6 MEMBER ZIEMER: The cover sheet
7 is there.

8 DR. NETON: Yes, this is the
9 first page of the document. This is a Word
10 document. I just wanted to scroll down
11 through the Table 1 to refresh everyone's
12 memory that, you know, we evaluated each
13 individual cancer model.

14 And this was to determine, you
15 know, what difference, it would have to be a
16 geometric means for the stratified coworker
17 model to me more claimant-favorable than
18 just applying a 95th percentile of the
19 distribution.

20 And it ranged all the way from
21 female genitalia that had a geometric mean
22 of 4.1 all the way down to the last cancer

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1 model you should see on this page which was
2 urinary organs excluding the bladder. And
3 that geometric mean difference was 2.07.

4 That made at least me feel pretty
5 comfortable that this may have some
6 viability for looking at, you know, what
7 needs to be stratified. But I did say in
8 the report that it was preliminary. We used
9 alpha exposure because in my mind, first,
10 that's the dose that really, that's a big
11 dose getter in our program.

12 I mean, most of the compensation
13 cases, largely evolved alpha exposure to one
14 of the either lungs or one of what we call
15 the metabolic organs, the organs that tend
16 to concentrate the alpha emitting material.

17 So that was the reason we did
18 that, plus the alpha radiation effectiveness
19 factor had a very widespread distribution,
20 more widespread than any of the other
21 radiation effectiveness factors.

22 Well, just to be sure we cover

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1 all of our bases, we went and evaluated how
2 this applied for all the other radiation
3 types that we use in IREP. And there should
4 be another table on the screen. Is it
5 there?

6 MR. KATZ: Yes.

7 DR. NETON: Okay. And this is a
8 re-analysis of that last model where for
9 urinary, bladder excluding, this one here,
10 urinary organs excluding the bladder. And
11 what this is, the first line is exactly the
12 last line of the previous report that I had
13 on the screen where you see a geometric mean
14 of 2.07.

15 And that indeed is exactly the
16 number we got before, and it is for alpha
17 exposures. But what's interesting about
18 this, I'm not sure I completely understand
19 why, for radiation type exposures that have
20 smaller uncertainty in the radiation
21 effectiveness factors, for example photons
22 are greater than 250 which actually have no

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1 radiation effectiveness factor contribution,
2 the value is much smaller than two.

3 And in all cases, these values
4 are smaller than the one that we received
5 from the alpha, which brings this down to
6 the point where I'm not convinced that this
7 approach is viable anymore. I think I
8 communicated that in the email.

9 It's certainly the case that for
10 alpha emitters, it's going to be a factor of
11 two higher if you use the 95th percentile
12 than the geometric mean full distribution.
13 But anyway, I just talked about this earlier
14 because this going to affect our discussion
15 of Section 4 of the document.

16 I just don't see, I can't think
17 of any way that this is going to be a real
18 useful litmus test for determining whether
19 something should be stratified or not.

20 Okay, so now let's get on to the
21 revisions of the document, unless there's
22 any questions on that. Okay, I don't hear

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1 any.

2 So I thought the easiest way, and
3 I'm willing and open to suggestions, to go
4 through the revision is actually just go
5 through the track changes version on the
6 screen here so that it would be pretty easy
7 to see what changed from Rev, the first
8 revisions we're calling Rev 1. And now
9 we're at Revision 2.

10 Again, I mentioned that this
11 incorporates, I feel to a large extent as
12 much as possible, I think, the comments that
13 I received at the working group meeting as
14 well as SG&A sent a nice memo over.

15 In their transmittal, I believe I
16 got the sense that we were largely in
17 agreement on most of the issues. And we'll
18 see how that plays out after our discussion,
19 though.

20 So the introduction remains
21 pretty much the same. That just sets the
22 stage for, you know, why we are doing

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1 coworker models and what sort of gives us
2 the authority to do that in the regulation
3 under Section 82.2. Not much changed there.

4 Section 2 gets into the criteria
5 for evaluation of adequacy and completeness
6 of the model. I've added some information
7 here to make it clear that when we're
8 talking about adequacy of the data, we're
9 really talking about the technical adequacy,
10 and is it technically capable of evaluating
11 the workers' intakes versus the completeness
12 which is we have, you know, what fraction of
13 workers were monitored, if the right
14 fraction were monitored, do we have all the
15 data that we think we had. So that was some
16 change in there.

17 I tried to beef up the adequacy a
18 little bit. I know there was some
19 discussions about an appendix with a lot
20 more detail. I really couldn't see that it
21 fit in here, so I just beefed up the
22 language a little more to include a few more

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1 items such as what's useful for, you know,
2 what is a valid sample, either bioassay
3 examples or personal dosimeter measurements.

4 I have a footnote in here that it
5 allows for breathing zone air samples if
6 they were taken, and found to be acceptable,
7 okay. I added some information about scaling
8 factors, if you had a radionuclides that
9 were in a combination decision activation
10 proxy to really clearly understand the ratio
11 of the components in those materials.

12 And talked a little bit about
13 technology shortfall, how they need to be
14 corrected, the measure needs to be corrected
15 to establish the model. So really, this is
16 all about how the data technically is
17 capable of measuring what they purport to
18 do.

19 A little further down I talk
20 about the collection, were blank samples
21 run, and a little bit about precision. This
22 came up in one of the reviews, I think, of

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1 Savannah River.

2 If you have blank, multiple
3 samples taken on the same individual in the
4 same time frame, you need to have
5 demonstration of the data fairly precise.
6 Not just accurate but repeated measures
7 produce in general the same value within a
8 certain tolerance.

9 A little write up in here about
10 how chelation therapy should not be used. I
11 mean, data that were taken as a direct
12 result of chelation therapy are probably not
13 useful for coworker models. So just some
14 more information in there about the adequacy
15 of the data. Completeness, I added quite a
16 bit of material.

17 CHAIRMAN MELIUS: Jim, can we
18 just stop there and see if anybody has any
19 comments or questions? It's easier I think
20 if we go through section by section just
21 like we did before. And I actually don't
22 have any on that. But I thought the level

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1 of detail was about appropriate.

2 I mean, just see it becomes a,
3 you know, a multi-chapter book, it just
4 becomes a paragraph. And I think the
5 paragraph, what you have here is fine. But
6 I don't know if others have comments. Paul
7 or Gen?

8 MEMBER ZIEMER: This is Ziemer.
9 I have no comments on this section. I think
10 it's fine. I think the level of detail is
11 appropriate for kind of giving the overview
12 of what's needed in data adequacy.

13 MEMBER ROESSLER: I'm okay.

14 MR. BARTON: This is Bob Barton
15 with SC&A. I had one thought about it, and
16 it's kind of related to the chelation agents
17 like EDTA. I mean, SC&A certainly agrees
18 that it's not really appropriate to plug
19 that value in as if it really represents
20 what a normal excretion pattern would be.

21 At the same time, the reason the
22 worker would be administered such a thing

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1 would be because they're involved in some
2 sort of incident and they're trying to, you
3 know, sort of flush their system.

4 So I was just curious if NIOSH
5 had given any thought as to how those
6 incidents might be handled because again,
7 those workers who were administered that
8 sort of represent, you know, acute intakes
9 that were significantly high in most cases.

10 And while it's correct to pull
11 them out of any sort of coworker model
12 because it's not about representative data
13 point, we're sort of losing that, I guess,
14 angle on potential exposures that maybe
15 weren't necessarily caught, maybe not all
16 the workers who were involved were
17 administered the chelating agent, but then
18 we're sort of losing those samples that sort
19 of characterize what that incident might
20 have been.

21 I was just curious if there's
22 been any discussion or thoughts on that.

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1 DR. NETON: Well, I guess my
2 opinion there is that if, you know, and we
3 could talk about this more as we go along,
4 but if the coworker model is being developed
5 based on what we would consider routine
6 exposures, incidents more than likely don't
7 belong in there.

8 I think we can tolerate some
9 incidents in there, they will tend to bias
10 results high. But when you start
11 incorporating people who have accumulated,
12 you have abnormally high excretion patterns
13 which would really seriously bias the
14 models.

15 So I don't think they should be
16 in there. How we would handle the
17 individual incident I think is not really a
18 subject of this document.

19 There are techniques that one
20 can, you know, use and I strongly suspect
21 that people that were chelated have
22 multiple, multiple bioassay samples that

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1 cover a long period of time that we would
2 use to reconstruct their dose if they were a
3 claimant.

4 But again, I think that's sort of
5 out of the scope of what we're trying to
6 accomplish here in this document. That's my
7 off the top of the head thoughts.

8 DR. LIPSZTEIN: May I?

9 DR. NETON: Yes.

10 DR. LIPSZTEIN: Hi. I tend to
11 agree with you because actually the models
12 won't work if the person had some therapy.

13 So you are trying to apply a
14 model that will give you the intake for
15 people that were unmonitored. So you can't
16 use the data from people that were chelated.
17 So I agree with it.

18 I have one more comment on the
19 data adequacy, but it's just a small detail.
20 It's that on the first paragraph, everything
21 that's talked about, it's like if the only
22 coworker models were developed for urine

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1 bioassay samples instead of also for whole
2 body counting for in vivo monitoring.

3 So I would add something about
4 items to be considered like calibration of
5 the counter and also evaluation, monitoring
6 the progeny, and significant difference
7 between the biokinetic behavior of progeny.

8 DR. NETON: That's a very good
9 comment, Joyce. That definitely needs to be
10 in there. I guess I, you know, we don't do
11 that many coworker models for whole body
12 counting or in vivo counting, but we do.
13 And I agree. I think, you know, benefit
14 from having discussion of that.

15 Plus, you are experienced with
16 lung counting for thorium and a big topic of
17 debate as far as coworker models go. Yes,
18 good comment. Okay, any more comments on
19 2.1? If not, we'll move on. All right,
20 hearing none.

21 This is data completeness. And
22 so of course, once we've evaluated and we

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1 passed the bar, the threshold that says the
2 data are technically acceptable, we need to
3 determine, you know, are they useful for
4 bounding the population that we're trying to
5 reconstruct?

6 And I don't know if I made this
7 term up, but I've definitely called this a
8 gap analysis that's come up in our
9 conversations. We need to look at what data
10 collected and on who the data were
11 collected.

12 The number of monitoring samples
13 for each category should be compared to the
14 total number of workers, although that's not
15 always possible because oftentimes when we
16 get a data set, we don't have, the data set
17 doesn't have job categories. And sometimes
18 we don't know the total number of workers
19 who were exposed in that job category
20 anyway.

21 But if the data are there, it
22 certainly is something that should be done.

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1 We've added here that job category does not
2 have to be an individual job title. It
3 could be a category that consists of several
4 job titles. But you'd have to establish
5 that the exposure of those categories would
6 be similar.

7 I've added a paragraph here. It
8 says that if the number of workers in each
9 category is unknown, it's useful to
10 sometimes use the NOCTS data, the data that
11 we have on claimants.

12 This came about in our discussion
13 about the Nevada Test Site with their
14 example of this where I think we had a large
15 number of monitoring data points for folks.
16 I think it was something like 300 people
17 that were monitored.

18 But fully two thirds of those, I
19 think, that table below, two thirds of those
20 were radiation safety staff. So it kind of
21 gives you some pause to think about is that
22 really representative of the exposure

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1 potentials considering we had laborers,
2 welders, and miners who were certainly in
3 exposure conditions that were equal to if
4 not greater than the rad safety staff.

5 You know, it's a good example of
6 what to think about when you parse the data
7 out by job categories to see if the right
8 people were monitored. So I've added this
9 paragraph in here to cover that.

10 Any time there are gaps,
11 sometimes we have gaps where we have no
12 monitoring data, it needs to be investigated
13 why. What are we missing? I think this
14 happened at least one site, I can't think of
15 the name, where there's four or five years
16 there's just no monitoring data.

17 You know, is it just lost, was it
18 taken, or was there some sort of an outage
19 where they weren't working with radioactive
20 materials? They need to be evaluated and
21 explained in some way.

22 Just added a little bit about how

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1 the number, I discretely identified
2 activities will vary widely. There's not
3 much uniformity among these sites,
4 particularly the differences between AWEs
5 that sometimes give one very specific task
6 versus the large, multi-purpose DOE
7 facilities that they had a lot of different
8 operations. So that needed to be taken into
9 consideration when you're looking at the
10 completeness of the monitoring programs.

11 Talk about a little bit of the
12 minimum number of data points, and we
13 bounced around with this idea of 30. But
14 that's certainly not a hard and fast rule.
15 We tried to point out where there may be six
16 workers involved and the manipulation of
17 parts in a glove box.

18 And if you have three workers
19 that were monitored, that may be enough for
20 that operation. So it's sort of just trying
21 to point out that there are no real hard and
22 fast rules here. Each situation needs to be

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1 monitored on a case by case basis.

2 And the last paragraph here,
3 which I think could be expanded on but I
4 think it's pretty important even though it's
5 short. It talks about if you have summary
6 databases or electronic records, some effort
7 needs to be expended to look at, to
8 determine if those summary databases
9 actually have all the data.

10 We talked about this before where
11 maybe these are all the routine samples, and
12 there are a lot of incident samples stuck in
13 a drawer somewhere in the medical files. Or
14 even the routine samples, are they all
15 there, or have some database manipulation
16 accidentally removed them?

17 So that needs to be done to make
18 sure you have an unbiased listing of the
19 data collected by the site. So that's the
20 totality of Section 2.2. I'm going to stop
21 there and you can discuss what's in here?

22 CHAIRMAN MELIUS: Okay. Gen or

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1 Paul, do you have comments on that section?

2 MEMBER ZIEMER: This is Paul.

3 I'm okay with Jim's suggested revisions.

4 MEMBER ROESSLER: Yes, and I'm
5 still trying to get on the Live Meeting.
6 I've got a new computer. It didn't have
7 Java installed, so I've gone back to my old
8 computer. So while I'm doing this, I'm
9 listening, and from what I've heard, I don't
10 have any comments.

11 DR. NETON: Well Gen, this is, if
12 you have the documents I sent last week or
13 so, I'm just going through the track changes
14 version.

15 MEMBER ROESSLER: Yes. And you
16 probably, I don't see them on, I've been on
17 travel and I haven't opened my Government
18 computer for about a week. So I --

19 DR. NETON: I sent them out on
20 the 13th, if that helps.

21 MEMBER ROESSLER: Okay. It says
22 now, you are now connecting to the meeting,

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1 so maybe I'm going to be good.

2 DR. NETON: Okay.

3 MEMBER ROESSLER: We'll see.

4 Otherwise, I'll check my emails.

5 DR. NETON: Okay. And I believe
6 they're also on the website.

7 MEMBER ROESSLER: I didn't see
8 them on the website.

9 CHAIRMAN MELIUS: I don't think,
10 they weren't on the website when I looked
11 this morning.

12 DR. NETON: They haven't gotten
13 there yet?

14 MEMBER ROESSLER: No, I didn't
15 find that. I just found the SG&A documents.

16 DR. NETON: Okay.

17 CHAIRMAN MELIUS: I have a couple
18 of comments. One is sort of, you sort of
19 cover it later. But I think some comment
20 here under data completeness, to the effect
21 that you're usually trying to focus on sort
22 of annual, you know, what data's complete

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1 for a given year, because that's usually the
2 most sort of reasonable way of approaching
3 it in terms of how you've collected
4 information.

5 You cover it later, but I think
6 it's something someone would do if they're,
7 you know, initially starting out looking at
8 data completeness. So maybe, you know, just
9 a mention of that there.

10 The other area that came up that
11 I think is important is people are sort of
12 doing the gap analysis and looking for sort
13 of, you know, potential stratification or
14 couldn't it be different types of exposure
15 for people with different job titles or
16 whatever.

17 But I think one of the other
18 things that's important, again we talked
19 about before, was sort of sufficient
20 accuracy.

21 It's sort of what's the absolute
22 level of exposure that, you know, you're

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1 going to be more concerned about a high
2 exposure job and as opposed to something
3 where it's environmental exposure around the
4 site or something like that where we know
5 that there's not much contribution to a
6 person's dose from that exposure.

7 And I would think that's, I mean,
8 I think you generally do it because I think
9 you want to focus on, you know, sort of the
10 higher risk exposures. But I think
11 mentioning it here, I mean, I think it makes
12 some difference in terms of the number of
13 samples that might be required and how
14 comfortable you would be with a smaller data
15 set or a less complete data set. Does that
16 make sense to you, Jim?

17 DR. NETON: Yes, it does. I do
18 talk about it a little bit later, but it
19 would make sense when you're looking at
20 completeness.

21 CHAIRMAN MELIUS: I'm just saying
22 someone sort of going through this step wise

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1 or evaluation and so forth. And that last
2 paragraph here I thought was very good. I
3 think it was really, really helpful for, you
4 know, sort of going through and sort of
5 thinking about what needs to be done there.
6 So I would just there, I would if anything
7 consider on expanding that a little bit.

8 MEMBER ROESSLER: Jim, this is
9 Gen. I think I'm there now. I see a marked
10 up copy. So I should be able to follow from
11 here on.

12 CHAIRMAN MELIUS: Actually, I was
13 referring to the last two paragraphs. So
14 it's those two paragraphs at the end that I
15 think need to be, I think are good and I
16 thought were helpful. So just to reinforce
17 what you said.

18 DR. NETON: Very good.

19 MEMBER ZIEMER: Jim, this is
20 Ziemer. What last two paragraphs were you
21 referring to, the revised one?

22 CHAIRMAN MELIUS: In the revised

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1 --

2 MEMBER ZIEMER: The revision of
3 2.3?

4 CHAIRMAN MELIUS: No, no, 2.2
5 just above --

6 MEMBER ZIEMER: Oh, you haven't
7 begun 2.3?

8 CHAIRMAN MELIUS: Yes.

9 MEMBER ZIEMER: Yes, yes. Okay,
10 the new paragraph?

11 CHAIRMAN MELIUS: Yes.

12 MEMBER ZIEMER: Right, okay. I'm
13 good on that, yes.

14 CHAIRMAN MELIUS: Yes.

15 DR. CHMELYNSKI: This is Harry
16 Chmelynski. I have one comment about the
17 way it's phrased in terms of the 30 samples.
18 I would like to have it made more clear that
19 that's for each of the groups if you're
20 doing stratification.

21 DR. NETON: Yes. I was just
22 implying, but it just wouldn't be hard to

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1 make sure that's emphasized.

2 DR. CHMELYNSKI: It might be in
3 there. It doesn't jump out at you.

4 DR. NETON: No, I don't think
5 it's in there. I think I just sort of, you
6 know, I'm close to it and I'm assuming
7 that's what we were talking about. But it
8 would be a minimum of 30 samples per
9 monitoring interval or whatever, I guess, or
10 something like that.

11 DR. CHMELYNSKI: Well, that's the
12 phrasing there now at. It's just a little
13 unclear exactly what that means.

14 DR. NETON: Yes. Our lawyers
15 were asking that same question.

16 (Simultaneous speaking.)

17 CHAIRMAN MELIUS: Is that why you
18 got a new lawyer?

19 DR. NETON: I think by monitored
20 interval or evaluated interval, I was really
21 trying to, you know, there's a generic term
22 for, I was just kind of saying on a year by

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1 year basis or quarter by quarter basis, you
2 know.

3 DR. CHMELYNSKI: Right. I
4 understand the temporal implication. But in
5 terms of stratification, that doesn't
6 clearly mean what's in that phrase.

7 DR. NETON: Yes, I can fix that.

8 DR. MAKHIJANI: Jim, this is
9 Arjun. I think Harry also meant that these
10 are samples for each group, each of the two
11 groups being compared?

12 DR. CHMELYNSKI: Yes.

13 DR. NETON: Yes.

14 DR. MAKHIJANI: So that should I
15 think also be clear.

16 DR. NETON: Well, I would say for
17 each group that's being reconstructed, I
18 mean, I'm not really talking about comparing
19 at this point. And that's something that
20 we're going to talk about later, although I
21 can bring this up now I guess is that the
22 way this is written here so far is if, well

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1 actually I'm going to get to it more in 2.3.

2 But the idea is if you have
3 reason to believe, if a person has reason to
4 believe that the monitoring programs don't
5 match up, say it's pretty clear that you
6 have a mismatch of a routine monitoring
7 program for this category worker and an
8 incident based monitoring program for
9 Category B workers.

10 And they're never going to be
11 matched up. There's no real reason to
12 compare those at all. I think they should
13 be stratified from the get-go because, you
14 know, you've identified, you've got the job
15 categories, you know the monitoring programs
16 are just similar.

17 There's no reason to mesh those
18 two into one group and then start doing some
19 statistical analyses on them. It just
20 doesn't make any sense.

21 I think that, by and large,
22 applies to most categories where if you've,

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1 if you have a priori reason to believe that
2 they're different and you have the ability
3 to segregate them or separate them, I think
4 it just should be done.

5 DR. MAKHIJANI: Okay, I see what
6 you mean. Okay. That's much clearer now.

7 DR. NETON: Maybe that represents
8 a bit of a change on our part, but you know,
9 the more I delve into this, it's like well
10 if you've got the data and you think they're
11 different, well just go ahead and do it and
12 let the data fall where they may. It avoids
13 a lot of analysis, unnecessary analysis.
14 Okay.

15 MR. BARTON: This is Bob Barton.
16 There was one in this section. It has to do
17 with this notion of evaluation periods. And
18 normally that's, you know, one year that you
19 calculate your OPOS value or if you have the
20 data to do quarters then, you know, you
21 prefer to do it as fine as possible,
22 certainly.

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1 But another consideration that we
2 might want to think about is establishing
3 these evaluation periods on more of a
4 campaign basis. You know, for example if
5 you had two years, we'll just arbitrarily
6 say 1991 and 1992.

7 And starting in July of '91 you
8 had shifts in a campaign for, you know,
9 uranium processing, whatever it might be,
10 you might want to consider breaking it up
11 really based on operational procedures and
12 not just a time period such as January to
13 December of a certain year. To the extent
14 that that's feasible I think we should look
15 into it.

16 DR. NETON: Yes, I think maybe
17 it's implied in here, at least in my mind.
18 You know, a year is a convenient interval,
19 and oftentimes not much changes in a year at
20 a big facility.

21 But I agree with you. I mean, if
22 there was some obvious, major change in

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1 process or equipment or whatever and it
2 happened in the middle of the year, yes
3 there's no valid reason to lump those all
4 into one.

5 I think that's sort of a given.
6 But you're right, it's not explicitly stated
7 here. Let's talk about that when you get
8 into period longer than one year, but it
9 doesn't call out period less than a year.
10 Yes, that could be clarified a little bit.
11 I wouldn't have a problem putting some
12 language in there on that.

13 Okay. Anything else on 2.2?
14 Okay. All right, this 2.3, applicability of
15 monitoring data to the unmonitored workers
16 really sort of gets into the meat of the
17 issue which is what type of monitoring
18 programs are we looking at.

19 And you know, nothing changed
20 here about the three major types. You know,
21 routine representative of the workers,
22 routine with the highest exposure potential,

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1 and collection of incident samples.

2 Let's see. I talk a little bit
3 about how establishing the basis for the
4 program participation, you know, what type
5 of program was this would require. And it
6 should involve a review of the site's
7 radiological control program documentation.

8 I mean, that's where the tone is
9 set as to how we select people for
10 monitoring and how frequently they're going
11 to be monitored. But nonetheless, even if
12 you have a very good feel that the program
13 meant to do it, I think I put in here
14 somewhere that you need to follow up.

15 One needs to follow up and make
16 sure that they actually did that. There are
17 some cases where the site meant well, and
18 we've seen evidence that people were not
19 participating, either because it was
20 voluntary and it was not really, you know,
21 followed up on or for whatever reason. So
22 that was added into this section.

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1 This paragraph I'm highlighting
2 here is something that we thought about
3 which is a little bit, sort of a variation
4 in my mind of a routine monitoring program
5 where you have, you know, short duration
6 projects for example where you'll be doing
7 some sort of an operation and only occur for
8 a three month period.

9 It may be okay just to have one
10 sample at the end of that project, and so to
11 allow for that. I just wanted to make sure
12 that, you know, this wouldn't have been
13 precluded because it's not really a routine
14 program. It's sort of a project specific
15 program.

16 Those happen from time to time,
17 particularly at the larger DOE facilities,
18 and very often at the national laboratories.
19 So I added that in there.

20 This section here talks about
21 incident driven samples, let's see. Yes, I
22 mentioned this before, how I really have

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1 come to the opinion that it's very hard to
2 justify intermixing incident driven, workers
3 who are only on an incident driven program
4 versus workers who are on a routine
5 monitoring program.

6 I think it's very hard to mix
7 those two together and justify it. And that
8 doesn't mean that the incident driven
9 population couldn't be modeled somehow, and
10 we talked about that at the last meeting,
11 although there are some pretty stringent
12 criteria that would have to be in place for
13 that to occur.

14 But nonetheless, I do agree that
15 combining incident and routine monitoring
16 programs into one coworker general model is
17 problematic. So that covers the additions
18 for Section 2.3.

19 MR. BARTON: Jim, when we talk
20 about that, sort of the example you gave was
21 the three month short duration program, you
22 know, maybe a subcontractor was called and

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1 doing demolition work or something.

2 And all you have is a sample,
3 perhaps at the end of the project. As I was
4 reading through your write up, I sort of got
5 the impression, would we then be looking to
6 almost stratify where we're going to
7 reconstruct doses for that individual who
8 was only there for three months using those
9 end of project values and that would be sort
10 of a separate model aside from the general,
11 chronic coworker model, or how would that be
12 handled?

13 DR. NETON: I think at that level
14 of detail, yes you would. But I guess in
15 reality, I guess I can't see that happening
16 too often. You know, you would have to look
17 at it on a case by case basis.

18 But say it was a three month
19 project and you had, I don't know, 50
20 workers on the project. Let's say they
21 happened to be trace, building trades
22 workers. I think it would be okay.

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1 You would evaluate the 50
2 monitored workers. Then you would have to
3 see based on what occurred in that three
4 month interval what processes, you know,
5 were involved.

6 Did you really even need a
7 coworker model, you know, were the workers
8 that weren't monitored exposed and that sort
9 of thing. I mean, you have to look at it on
10 a case by case basis.

11 I just wanted to leave the door
12 open for that. I think there are situations
13 like this, maybe at Savannah River, where we
14 have a fine amount, a lot of detail on
15 projects, project specific bioassay for some
16 what I consider the more exotic
17 radionuclides when you get into things like
18 the neptunium and stuff that might have been
19 campaign driven. It's a long answer, but I
20 guess the answer --

21 (Simultaneous speaking.)

22 CHAIRMAN MELIUS: This is Jim

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1 Melius. I mean, I agree with your answer,
2 Jim. I think it's, yes, I think what we've
3 learned in this program is that it's all,
4 every site is different.

5 It's always sort of case by case
6 and I don't think it hurts to leave open
7 where my people are this is a possibility so
8 that we don't sort of arbitrarily rule out
9 doing it without, you know, thinking about
10 it and examining the particular situation.

11 Yes, but it's always going to
12 fall back on, you know, will the
13 circumstance, are there enough, is the
14 record keeping adequate to be able to
15 utilize that approach. But you don't know
16 until you look.

17 MEMBER ZIEMER: This is Ziemer.
18 I agree with that. I think it makes sense
19 to at least have that possibility in the
20 text here. It may occur only rarely, but it
21 may very well be needed in the future.

22 CHAIRMAN MELIUS: Anybody else

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1 with comments on this section? Okay, 3.

2 DR. NETON: Okay. 3.0 which is
3 the analysis of the monitoring data. This
4 is sort of just a nuts and bolts section to
5 allow for what was sort of to include what
6 we do as a matter of course with these
7 models.

8 Once we decided we can develop a
9 model, we have enough data that's valid, we
10 do generate these statistical distributions,
11 they're fitted. I have in here allow for
12 either log normal or we haven't done many
13 Weibulls, but Weibull is an option. As long
14 as it fits the data set, I think it's a
15 valid selection.

16 I'm again, this is from the last
17 time, the 95th percentile will be used as an
18 upper bound for highly exposed individuals
19 if the data aren't stratified. Then I've
20 added a paragraph here to talk about OPOS,
21 which I think we're sort of okay with. We
22 can talk about this more.

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1 But using a backward integrated,
2 time weighted average analysis for the data
3 set, and that's been included in the new Rev
4 2 of RPRT-53. So that's really just was
5 added into this section.

6 So we want to talk about this
7 here, or we could talk about it in the
8 context of RPRT-53. Either way is fine with
9 me. But I got the sense from SC&A's memo
10 that they issued not too long ago that they
11 didn't have any serious problems with a
12 backward integration time weighted average
13 approach. Seems to me to make a lot of
14 sense.

15 MEMBER ZIEMER: Yes, this is
16 Ziemer. I wanted to ask that question. It
17 was my impression that this met the SC&A's
18 comment. But if SC&A can weigh in on that?

19 DR. LIPSZTEIN: May I?

20 CHAIRMAN MELIUS: Yes.

21 DR. LIPSZTEIN: I think that the
22 backwards time weighted OPOS is very good

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1 improvement on the coworker models. So I
2 think we are good on that.

3 MR. BARTON: Yes, this is Bob.
4 We've had some pretty extensive discussions
5 on this, and I think where we finally came
6 out to on SC&A's side was that the pre-
7 weighted, that is we're going to weight the
8 sample by the number of data that preceded
9 it, was really the best option on the table.

10 I think everyone agreed that if
11 we had the resources and the time to do it,
12 we would go in and do best estimate intake
13 calculations and form our distribution based
14 on that.

15 But based on the discussions we
16 at SC&A have had, I echo Joyce's sentiment.
17 We think it's really the best option that's
18 currently on the table.

19 DR. NETON: That's good news.
20 That's good to hear.

21 CHAIRMAN MELIUS: Can I just
22 bring it back because I didn't realize until

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1 I looked at the website that there was a
2 revision to this ORAU document out. I
3 somehow violated the password police at CDC
4 and haven't been able to get online there.

5 But I don't know if, well, other
6 Members of the Work Group or SC&A was aware
7 of the revision?

8 MEMBER ROESSLER: Is this the one
9 that came out October 8th or something like
10 that?

11 CHAIRMAN MELIUS: Well, I see a
12 DOE review release October 16th.

13 DR. NETON: Yes, that's fairly
14 recent, and to my, I'm reasonably sure that
15 the only things that were added were the
16 OPOS backwards integration, time weighted
17 average.

18 CHAIRMAN MELIUS: Okay.

19 DR. NETON: And we also added a
20 section on how to evaluate the use of
21 negative values. Negative values are not
22 used in the backward integration

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1 calculation.

2 CHAIRMAN MELIUS: Okay.

3 DR. NETON: And there's various
4 reasons for that. I'm not sure I want to go
5 into them today.

6 CHAIRMAN MELIUS: Okay.

7 DR. NETON: We could probably
8 review that in the context of RPRT-53
9 because I didn't mention that in here, I
10 just sort of referenced 53 because it was
11 easier to reference a document than to
12 explain exactly what we're doing.

13 And since this is a guide, I
14 thought it would be better to just reference
15 RPRT-53.

16 MEMBER ZIEMER: Is that the
17 October 8th version?

18 CHAIRMAN MELIUS: It's an October
19 8th version and --

20 DR. NETON: It's been released.
21 It's okay for public release now. SC&A
22 asked for a copy because they saw I had

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1 referenced Revision 2 in this draft. And I
2 could only, at that time, release the, well
3 I released it but it hadn't cleared DOE ADC
4 review at that point.

5 MEMBER ZIEMER: Okay. But Ted
6 sent this out to us last week, I think.

7 MR. KATZ: Right. But I think if
8 Jim couldn't get into his CDC account, he
9 couldn't have picked it up.

10 MEMBER ZIEMER: Oh, okay.

11 DR. NETON: Yes, and the non-ADC
12 reviewed document couldn't view anywhere but
13 CDC accounts.

14 MR. KATZ: Yes.

15 DR. NETON: Okay, but it's out
16 there. And again, I think those are, Tom
17 LaBone can correct me if I'm wrong, but I
18 think those are the only two changes of any
19 substance in Revision 2. Is that right,
20 Tom?

21 MR. LABONE: Yes, those are the
22 only changes.

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1 DR. NETON: Yes, okay. I guess
2 maybe we jumped the gun a little bit, but I
3 was pretty confident that SC&A was on board
4 with the backwards integration.

5 CHAIRMAN MELIUS: Now we know, so
6 we're --

7 DR. NETON: So we're good to go
8 there. If there's no more discussion on
9 3.0, I can go into 3.1 which will be pretty
10 brief.

11 MEMBER ROESSLER: You want to
12 make a correction, just a typo thing?

13 DR. NETON: Sure.

14 MEMBER ROESSLER: Up there, go
15 down a little bit in your last, down to the
16 paragraphs where you did a lot of rewriting.
17 Third sentence, about in the middle there it
18 says, "the use". Put "the use of" and then
19 it will be perfect.

20 DR. NETON: Yes, the use of.
21 Yes, it's amazing how many people look at
22 this and, you know, your eyes scan over it.

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1 Thanks. That's good. Okay, the next
2 section, the time interval, we already sort
3 of touched on that that we should probably
4 use the data, the data come in various
5 flavors. Some are quarterly, most are
6 annual.

7 And I really didn't change much
8 in here. But I do say if it's necessary to
9 go beyond one year, changes in practices
10 should be evaluated. That was in there
11 before.

12 I kind of added the last caveat
13 here that in general, it should not exceed a
14 five year period unless, I'm not sure I like
15 this word, but stringent justification.
16 That reminds me of the surrogate data.

17 But you know, you certainly got
18 to really think about a time period greater
19 than five years, and a lot can change in
20 five year blocks. So one needs to be aware
21 of that, I think.

22 MR. BARTON: Jim, this is Bob

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1 Barton. Could I ask where did the number
2 five come from, because I thought I
3 remembered from a previous revision of RPRT-
4 53 that it was, like, it was a three year
5 interval that was written in there for
6 combining OPOS values. So I mean, how did
7 we arrive at the five?

8 DR. NETON: I'm not sure. Which
9 report did you see the three year in?

10 MR. BARTON: I thought it was
11 version one of RPRT-53 when it was talking
12 about strata comparison anyway. And I
13 believe it was a footnote. I can look that
14 up and get back to the Work Group. But I
15 thought that it said three years, and that's
16 the previous version of RPRT-53.

17 DR. NETON: Yes, I mean, I don't
18 know. I guess I didn't remember that. This
19 sort of just was my opinion at the time I
20 was writing this. I'm not married to three
21 or five, I just wanted to get the sense in
22 there that there should be some sort of

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1 default upper limit without really having to
2 go to greater lengths to demonstrate that
3 it's okay.

4 I mean, that's the whole point.
5 And again, I mean, I'm not married to either
6 five or three.

7 MR. BARTON: Okay, I understand.
8 And like we said before --

9 DR. NETON: I take a look --

10 MR. BARTON: It's a case by case
11 basis. You know, I mean, if it makes sense.

12 DR. NETON: I'll look at 53 and
13 make sure we're not inconsistent with --

14 MR. BARTON: It might have been
15 the previous version, I'm not sure.

16 DR. NETON: I don't remember.
17 I'll take a look, though. It's a good catch
18 if it is true. We should be consistent
19 among our documents, that's for sure.

20 MEMBER ZIEMER: This is Ziemer.
21 If you don't like the word stringent, you've
22 got a lot of other options. Compelling

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1 would be another one.

2 DR. NETON: Yes, actually for
3 some reason, that just popped immediately
4 into my mind when I was writing this. I've
5 heard it so many times, I think.

6 MEMBER ZIEMER: The intent's the
7 same, though.

8 DR. NETON: Yes, you know what
9 I'm trying to say. Okay, if there's no
10 comments on that, this Section 4 is where I
11 think I need the most feedback and work on.

12 If you remember before, I was
13 trying to build a case for a factor of two
14 being sort of our cut point for stratifying
15 or not because it would have been more
16 claimant-favorable.

17 And that's probably still true
18 because like I say, most of our exposure to
19 alpha emitters that gets into the 50 percent
20 range, but it's certainly not universal
21 based on that analysis I talked about at the
22 beginning.

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1 So what I've done here is I've
2 gone back to essentially what RPRT-53
3 recommended, which is this Monte Carlo
4 permutation, or Peto-Prentice test.

5 But then I got to thinking, well
6 because I mentioned in the earlier section
7 if you have a valid reason for stratifying
8 based on different monitoring protocols or
9 different exposure conditions, then I don't
10 know that any statistical test is really
11 needed at that point.

12 If it can be done and it meets
13 all the other criteria that we just talked
14 about, I'm not sure any statistical test is
15 necessary. So then I got to thinking well
16 then do we need the statistical testing.
17 And I'm really not sure at this point.

18 It seems that one should be able
19 to test statistically under certain
20 conditions, but I don't know. I would like
21 to open that up for discussion.

22 MEMBER ROESSLER: So, Jim, is

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1 your question at the very beginning do we do
2 statistical testing or do we not? Or is
3 there a list of factors that you can put out
4 there that say here's a situation where we
5 don't do it? I'm not sure how you're
6 approaching that.

7 DR. NETON: Yes. Well, you know,
8 RPRT-53 if you remember outlined a very, I
9 don't want to say rigorous, but a pretty
10 prescriptive process as to how one would go
11 about this.

12 You would take the individual,
13 let's say it's an annual basis, the data on
14 an annual basis, stratify on that annual
15 basis, and then compare the two strata to
16 see if they were "statistically
17 significantly different" or statistically
18 different under some statistical criteria.

19 And if they weren't, then you
20 wouldn't stratify. Well, you know, the
21 argument that's been made, and it has some
22 merit, is that the data oftentimes have such

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1 large deviations that you would have to have
2 fairly massive, massive is probably not the
3 right, very significant, not a good word
4 either, very large differences between the
5 two before you would ever detect some
6 statistical difference, which begs the
7 question well then is that really the way to
8 go.

9 In my way of thinking, the way
10 we've described this now is if you stratify,
11 if you look for stratification up front
12 based on valid reasons of differences in job
13 categories or exposure conditions, then I
14 don't know. Do you have to do a statistical
15 test to show they're different?

16 It's sort of an opposite
17 approach. Do you qualitatively segregate or
18 separate these data sets and analyze them
19 and let the chips fall where they may if you
20 can analyze that, if you have enough data,
21 or do you segregate them and then look for
22 statistical differences?

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1 I think I prefer the previous
2 approach which is if you can do it, do it.
3 I don't know. I'm really kind of, I'm torn
4 here as to how to proceed.

5 MEMBER ZIEMER: Jim, you would
6 have the coworker model for each different
7 strata then, is that what you're saying. If
8 you can do a valid stratification to start
9 with?

10 DR. NETON: Yes. If you can do
11 it, valid stratification based on job titles
12 or, I think to a large extent it may end up
13 being, you know, maybe trade workers,
14 construction trades that were more incident
15 based.

16 That doesn't require statistical
17 testing in my mind. Those are just two
18 separate monitoring programs, period, two
19 separate exposure conditions. So you would
20 have two separate models. I don't know.

21 CHAIRMAN MELIUS: This is Jim
22 Melius. Again, in the construction versus

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1 production or, you know, incidents versus
2 routine sampling, I mean, I think that's,
3 you're precluded from doing a meaningful
4 stratification there or appropriate one.

5 I think the question would be
6 that in other situations where people are
7 part of the same type of sampling program,
8 you know, that I think one of the arguments
9 you would need to have sort of a more robust
10 data set to be able to base your coworker
11 model on if you, I mean, depending on
12 whether you'd stratify or not.

13 I mean, it would affect sort of
14 the power of your coworker model to predict,
15 but it really is going to be a case by case
16 basis. Always our experience has been
17 recently at least, and I think at least the
18 ones we spend time on at the Board is that
19 we don't have adequate data to place people
20 within these, you know, job titles or
21 whatever.

22 DR. NETON: That's right. I

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1 think you're hitting exactly what I was
2 thinking is let's say we have, you know, a
3 situation where you have a fairly robust
4 routine monitoring program. And at a
5 minimum, you have data on the job titles of
6 the people who are in NOCTS at least, you
7 have 1,000 of those.

8 And you can sort of establish
9 that you have the people that were monitored
10 seem to be in job categories that had the
11 highest potential for exposure, you know, in
12 a routine process.

13 So now you have these unmonitored
14 workers that clearly would fall in maybe a
15 different exposure category, but maybe you
16 don't need to stratify at that point because
17 you've demonstrated a front that the highest
18 exposed workers were the ones that were
19 monitored, and using the 50th percentile
20 would be totally fine.

21 I don't know. And then you
22 don't, if you start stratifying down into

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1 these lower tiered unmonitored workers, then
2 you end up just basically giving them less
3 dose. I mean, not that that shouldn't,
4 maybe it should be done.

5 And maybe that's the point where
6 you can determine, use the statistics to
7 decide why it shouldn't be stratified,
8 something like that.

9 MEMBER ROESSLER: I like this
10 approach. And I was going to ask you
11 earlier about it. What I think is going to
12 be difficult is you're talking about a
13 verbal or descriptive way of making a
14 decision rather than something that's, you
15 know, more statistical.

16 DR. NETON: Yes.

17 MEMBER ROESSLER: It might be
18 harder to justify. You talk about job
19 titles. At the start, that sounds like a
20 good way, but I'm just wondering how that
21 would work out.

22 DR. NETON: Yes. I don't know.

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1 Like I say, it's easier for me to think
2 about the routine operations versus, as Dr.
3 Melius points out, the sort of subsets of
4 populations like the trade workers or, you
5 know, maybe some, I don't know, some workers
6 that involve project specific exposures,
7 campaigns that went on for several years
8 that were different.

9 I'm not sure. This is one of
10 those situations, and it's almost, like, you
11 know, until you see it. Maybe I need to go
12 back and figure out some examples. I think
13 that might be --

14 CHAIRMAN MELIUS: Yes. I was
15 going to suggest, I think that would be
16 helpful. Maybe some of the external
17 exposure coworker models might, where you
18 have a larger data set or something. Or
19 some of the ones where we've done in the
20 past and have approved that we would need to
21 look at.

22 DR. NETON: Yes. I think this is

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1 best handled, I guess, through an example or
2 several examples of how one might --

3 CHAIRMAN MELIUS: Yes.

4 DR. NETON: -- proceed. Again, I
5 think routine is one set, and then pulling
6 out the, sort of, special exposure
7 populations to identify them and sort of
8 determining how you're going to handle them
9 separately.

10 I think there's room for
11 statistics, of course, in here but I'm
12 trying to figure out the best, and I
13 probably need to talk to our folks, too. I
14 haven't discussed this with them either.

15 CHAIRMAN MELIUS: Yes. Yes. I
16 think going back to them, where some
17 examples would be the way to sort of flush
18 this one out.

19 DR. NETON: Other than that, I
20 think it seems like we're fairly okay with
21 the bulk of this document.

22 CHAIRMAN MELIUS: Yes.

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1 DR. NETON: This last piece. And
2 that makes me feel pretty good. Even though
3 it's only eight pages, it's been a lot of
4 work.

5 CHAIRMAN MELIUS: Yes, yes. No,
6 no.

7 DR. NETON: That's all I had to
8 say on this.

9 CHAIRMAN MELIUS: Why don't we
10 just jump to the last item on the agenda.
11 We'll come back to the other items. But my
12 thought would be if you want to make some
13 quick revisions to this or not make quick
14 revisions to it depending on how busy you
15 are, that we get this out to the full Board,
16 anyway, and do it as a presentation for our
17 Board meeting next week.

18 DR. NETON: Yes. I think that I
19 probably won't be able to make too many -- I
20 can, you know, most of them are fairly
21 straightforward.

22 CHAIRMAN MELIUS: Yes.

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1 DR. NETON: I tried to keep some
2 decent notes here. I think I can put in
3 what we talked about that makes some sense.
4 I won't have the examples, obviously, ready
5 for Section 4. I'll just flesh that out and
6 say examples to follow or something. Yes,
7 and then I can reissue it.

8 CHAIRMAN MELIUS: Yes, if that
9 gets too, you know, sort of time pressed and
10 I'm not sure it's worthwhile. It's just I
11 hate to have you have to respond to the same
12 comments. We'll forget what you agreed to
13 also. So we'll be, like, asking you the
14 same questions.

15 DR. NETON: The transcripts are
16 going to come out eventually, but --

17 CHAIRMAN MELIUS: Yes, right, I
18 know. But what would make, you know,
19 whatever works for you would be fine. And I
20 think if we had that and get sort of full
21 input from the Board on it, that then we
22 could, you know, sort of decide what to do

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1 going forward.

2 I mean, I think the other
3 question is, are there issues that either
4 need to be fleshed out more or that we
5 haven't thought of, because I think this,
6 you know, this approach has, or our thoughts
7 about this document have evolved.

8 DR. NETON: Oh, definitely.

9 CHAIRMAN MELIUS: Yes.

10 DR. NETON: I think I can make as
11 many changes as I can get, you know,
12 reasonably within sort of half a day. And I
13 can probably get this out to the full Board
14 by Thursday, given that I don't have that
15 much time. I'm not going to lock in a
16 change, but I'll try to just do the simple
17 ones.

18 And then I can present this to
19 the Board, yes, it's not a problem. I was
20 thinking about doing one other thing when I
21 do my presentation, though. And I've got
22 it, I've just displayed it here.

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1 I have a sense that there's a lot
2 of people, some Board Members are not really
3 familiar with what we really do with
4 coworker modeling data and how it works.

5 And so I thought a brief presentation
6 on an example from Savannah River might be
7 appropriate. And what I put together here
8 is a brief slide show that talks about a
9 specific example from Report 81, or TIB-81
10 that goes through how coworker models are
11 constructed by year, go over how the data
12 come out.

13 And then specifically talk about
14 these graphs of how chronic models are fit
15 through separate pieces. You know, and then
16 end up showing how it overestimates at the
17 very end and talk about what the GSBs and
18 all that stuff sort of mean.

19 I don't know. Do you think that
20 might be helpful as part of the process?

21 CHAIRMAN MELIUS: Yes, I do. Gen
22 and Paul, do you --

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1 MEMBER ROESSLER: I think it's
2 absolutely --

3 DR. NETON: I recall from the
4 last meeting in Idaho that people were
5 asking. I didn't have this type of
6 information available at the time. And I
7 think it would be very helpful to see here's
8 a study of a coworker model.

9 MEMBER ZIEMER: I agree. I think
10 that it's a good idea.

11 DR. NETON: I can do this piece
12 as well as basically just go through the
13 draft, which will be Rev 3 at that point.
14 Okay. I can do that.

15 MEMBER ROESSLER: Good.

16 CHAIRMAN MELIUS: Okay. Thanks,
17 Jim. I think the other, you want to do the
18 other two items on our agenda? The first
19 one is the ten year review. Well, ten year
20 review on, we had talked about I think at
21 the last Board conference call we were
22 reviewing the ten year items. And it came

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1 up that we, about DCAS was having
2 difficulty, probably not surprisingly, in
3 terms of addressing the comment about the
4 need or the potential helpfulness of having
5 input from other academic areas or even non-
6 academic areas in terms of applying the
7 policies in terms of sufficient accuracy and
8 some of the other, and SEC evaluation types
9 of issues.

10 And I think you had, Stu, you had
11 mentioned that it was causing -- we tried
12 approaching it, were having difficulty sort
13 of coming up with an approach that would be,
14 you thought would be useful or at least in
15 terms of how to frame the issues.

16 And I think I responded by saying
17 well maybe we could talk about it as part of
18 this Work Group meeting, at least I'm not
19 sure we have a better idea, but at least we
20 can try to address it if we can.

21 MR. HINNEFELD: Okay. Thanks,
22 Dr. Melius. Yes, this is a, of course it's

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1 problematic. We staffed -- the vision has
2 been staffed. Largely, the technical people
3 in the division are health physicists and we
4 haven't really sought out a policy team so
5 to speak and addressed these as an issue.

6 NIOSH always sort of interpreted
7 its assignment on this program as a
8 scientific assignment. And so that's kind
9 of how we've approached it.

10 I do think that over the years,
11 the continuing discussions with the Advisory
12 Board and the Board's contractor, while not
13 necessarily introducing other disciplines,
14 has certainly introduced other points of
15 view.

16 And I believe over the years we
17 have had NIOSH also, and the Board and our
18 contractor, have sort of converged on how
19 things will be done. So I really question,
20 and maybe some others of you who are not so
21 close to it as I, maybe some others have
22 some ideas about how this might be

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1 accomplished and its value.

2 But I kind of question the value
3 of at this point in the program, pursuing
4 other opinions that, presumably would be
5 somewhat less informed than those of us who
6 have been working on the program.

7 We do, as the years have gone by,
8 we have been, I believe, more accepting of
9 input from the claimant and advocate
10 community, and try to continue to take
11 information they provide us seriously.

12 I'm not so sure that ten years
13 ago we envisioned that that would be a large
14 avenue, but I think they've provided a lot
15 of useful information. And we have sort of
16 incorporated that into our work process.

17 So I'm really no closer than I
18 was at the Board conference call to having a
19 good idea about how to go about something
20 like this, but I kind of have the same
21 opinions that I had then that I don't think
22 the utility, I don't see the utility of

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1 actually going out and pursuing other
2 disciplines.

3 And I believe that the intent,
4 which is to get a broadening of the thought
5 process to the questions brought to our
6 program, particularly the SEC questions, I
7 think the intent of getting that broader
8 perspective is largely satisfied by the
9 relationship we've developed with the Board
10 and the Board's contractor.

11 So I guess I'll stop there and
12 see if anyone has anything else they want to
13 say. Am I still on the phone?

14 MEMBER ROESSLER: Yes. Stu,
15 what's the downside at this point if you
16 don't get input from, as you call it, other
17 disciplines?

18 MR. HINNEFELD: What is the
19 downside?

20 MEMBER ROESSLER: Yes. I mean,
21 if you just say well let's not do it, what
22 would the implication be of not doing it?

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1 What sort of criticisms could arise?

2 MR. HINNEFELD: Well, the
3 criticism would be -- NIOSH said that, you
4 know, you have this ten year review which
5 was, you build it as this important review
6 of your program, this fresh look. You have
7 these recommendations, even some you might
8 have considered priority recommendations and
9 you have nothing to show for it. What
10 happened to that?

11 Was this a real activity or not?
12 You know, were you really serious about
13 taking a serious look at yourself? And you
14 know, that criticism could arise from
15 wherever.

16 MEMBER ROESSLER: And I think
17 that's a serious criticism.

18 MR. HINNEFELD: Yes, I agree. So
19 I'm still open to suggestions then about
20 what are the kinds of perspectives we seek
21 and how do we pursue those.

22 And how do we, sort of, assure

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1 ourselves that we will get, sort of -- you
2 know, perspectives that kind of match the
3 thought process that we've kind of been
4 converging on, you know, NIOSH and the Board
5 and their contractor on this process?

6 So you introduced a possibility
7 of getting things that none of us would
8 perceive as being helpful and may cause work
9 to address in some fashion when those of us,
10 you know, us I mean us and the Board and the
11 Contractor would say gee, I don't see how
12 that could possibly be helpful to pursue
13 that.

14 On the other hand, I'm speaking
15 here, I am so close to this that certainly
16 my judgment on that matter could certainly
17 be at question.

18 MEMBER ZIEMER: This is Ziemer.
19 Let me raise a related question. Are there
20 specific viewpoints or aspects that people
21 feel NIOSH or the Board has been overtly
22 rejecting?

1 In other words, the outside, sort
2 of new outside viewpoints that seem to be
3 needed, are these viewpoints that someone
4 has identified as being not considered or
5 rejected or otherwise ignored?

6 I sort of feel the way Stu does,
7 but I have my own bias. But I think the
8 Board and the contractor and NIOSH itself
9 have been pretty open to a lot of outside
10 viewpoints. But I guess we hear from some
11 that really are -- are there voices that
12 aren't being heard or are being ignored?

13 CHAIRMAN MELIUS: This is Jim
14 Melius. I don't think that it was meant as
15 a criticism of, sort of, the process as
16 much. I mean, there were other issues
17 about, you know, input from the claimant or
18 the claimant community so to speak that were
19 sort of outreach issues and other issues
20 that were included in the ten year review
21 and are, I think, in the process of being
22 addressed.

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1 I think the other thing is that
2 we all are very close to the, you know,
3 process and so forth. And as we continually
4 find out, it's very hard to develop very
5 general rules for this process because, you
6 know, everything is case by case.

7 So most of our decisions are made
8 by spending a lot of time reviewing a
9 particular, you know, site or exposure at a
10 site to what's available in terms of data
11 and so forth.

12 And that often, you know, sort of
13 precludes the development of general rules.
14 Thorium is different at a different site so
15 we can't just have a -- you know, we
16 encounter thorium and therefore it's an SEC
17 kind of rule or it's not an SEC or whatever.

18 So I think that's sort of where
19 we are, our perspective on it, my
20 recollection of the process was that for the
21 ten year review was that that recommendation
22 was more in terms of how the compensation

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1 decision process was originally set up.

2 And would it be useful to have,
3 you know, input from other disciplines that
4 might be more familiar with other
5 compensation processes or the ethics of this
6 type of an effort. How do we, you know,
7 evaluate fairness, how do we evaluate
8 something like what is claimant friendly and
9 things that have been incorporated into this
10 program.

11 And would that possibly be
12 helpful? I think Stu's right, it's a little
13 hard to think specifically of what that
14 would be. And particularly when we're so
15 far down the line in terms of the number of
16 years that we've, you know, this process has
17 been set up and so forth.

18 So I think, you know, we all may
19 have different views on what could have been
20 done better or might have been different
21 approaches that should have been considered,
22 you know, however many years ago that

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1 weren't.

2 But I think our obligation, Paul,
3 back to yours, is not are we going to be
4 criticized, not criticized, or is it really
5 going to make a difference or not, but is
6 there some way of exploring that trying to
7 better understand how that might be helpful
8 and is it feasible to incorporate that into
9 the effort.

10 Now I believe that recommendation
11 came from both John Howard and, well from a
12 number of people but from John, from Randy
13 Rabinowitz as part of her review of the SEC
14 process.

15 And I mean, one way of pursuing
16 it would be, you know, at our Work Group
17 meeting because I think most of it was
18 directed at the SEC Issues and invite, Randy
19 could participate by phone or whatever to
20 explain what she meant by that.

21 MEMBER ROESSLER: I'm not sure
22 what she meant, but when you think about

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1 this, the real difficulty of involving some
2 more evaluation at this point is that it
3 takes us, you think about an unbiased group,
4 it seems that we have a real, they would
5 need a huge knowledge base.

6 I don't know of any group, other
7 than some that might be considered biased,
8 that could get up to speed enough on what's
9 being done and then actually on a timely
10 basis be productive.

11 CHAIRMAN MELIUS: Yes, I don't
12 have any specific examples to counter that.
13 But I think at the same time, it was a, you
14 know, recommendation that NIOSH and the
15 commitment that NIOSH made to address, or at
16 least explore.

17 And you know, I think it's
18 something that certainly the Board could be
19 involved in helping to explore it. And I
20 think, you know, I think we take it like we
21 do everything, a step at a time and see if
22 it helps or if it doesn't help, if it's

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1 feasible or not feasible.

2 MR. HINNEFELD: This is Stu. I
3 think maybe inviting Randy to participate in
4 a Work Group meeting might be an avenue to
5 pursue. And we might be able to get, at
6 least refresh my memory on where her thought
7 was on this.

8 And then the other question is
9 something like that consistent with the
10 regulations that were published because
11 theoretically the regulations could have
12 been published in a different manner.

13 But that goes back, I think,
14 farther than anybody wants to try to rewrite
15 the program. And it's a matter of well, you
16 know, can we, within the context of how the
17 regulations were written, can we do
18 something along those lines of other, you
19 know, not writing this strictly as a
20 scientific program.

21 Is there something we can do that
22 perhaps this was, there were avenues that

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1 maybe there should have been some policy or
2 other kinds of thought process applied
3 starting up as opposed to saying this is
4 strictly a scientific program.

5 CHAIRMAN MELIUS: But there also
6 may be some policy or procedure
7 modifications that would be, you know, are
8 not as dramatic as requiring regulation
9 changes. I don't think we can --

10 MR. HINNEFELD: It would be
11 preferable not to embark on regulations in
12 any kind of timely fashion because who knows
13 what happens then?

14 MEMBER ZIEMER: Well, Stu, the
15 policy issues are still built into the
16 program. I mean, the Board is just one
17 voice of input to the Secretary's office.

18 So there's a whole other level of
19 input that comes into play before any kind
20 of decisions are made.

21 CHAIRMAN MELIUS: So if it's
22 appropriate for everybody, I mean, let's see

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1 where we are at the Board meeting next week
2 in terms of follow up on the database issue.

3 I'm just thinking back to the
4 coworker issue. When we were, you know,
5 that was also a recommendation from the ten
6 year review. And I think many of us, I'll
7 speak for myself, I personally thought it
8 was necessary to, we really deeded to
9 address it.

10 But I think I and others had
11 trepidations about doing so at this point in
12 time and how we would go about that and how
13 potentially disruptive it could be as a
14 program.

15 And I think what we found out is
16 that, you know, we are in the process of
17 addressing it and I don't believe it will be
18 as disruptive as we might have imagined, at
19 least as I might imagine at the time when we
20 started the process.

21 And maybe this will be the same.
22 And you know, maybe it's something that's

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1 just not feasible at this point. But least
2 we can say we've evaluated and explored it,
3 and provided some input to NIOSH on it.

4 MEMBER ZIEMER: Good point.

5 MS. LIN: Hi, this is Jenny.

6 CHAIRMAN MELIUS: Yes.

7 MS. LIN: If I can have a couple
8 minutes. So you know, I've been away from
9 the program for over a year. And I haven't
10 touched anything on this ten years review
11 program review since I returned.

12 But I'm a little curious, or I
13 just need to do more work to really place
14 that recommendation that we've been talking
15 about today within the context because I
16 think, you know, you tried to introduce that
17 recommendation broadly over the entire
18 program.

19 I'm not entirely sure that is,
20 you know, that is really what the
21 recommendation's about. And then on the
22 other hand, I'm looking at the EEOICPA

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1 statute where it specifically speaks to the
2 type of advice from the Advisory Board.

3 And in the statutory provision,
4 it talks about how the advice of the
5 Advisory Board needs to be based on exposure
6 assessment by radiation health professional.

7 So I think I just wanted to sort
8 of center it back to the statutory
9 obligation. And then, you know, examining
10 that recommendation when the ten years
11 program review within that context. Thank
12 you.

13 CHAIRMAN MELIUS: So we'll plan
14 out a Work Group meeting. We can talk about
15 it more after RLA meeting next week.

16 The other item on our agenda is,
17 I don't know where exactly where it stands.
18 Again, I got caught by the password police
19 or something and have not been on the CDC
20 website in a week and a half or so.

21 But there's a Savannah River SRS
22 coworker model that SC&A was reviewing that

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1 the Savannah River Work Group sort of
2 referred over to us. And I'm actually, at
3 this point I was understood that it was
4 close to -- the SC&A review was close to
5 being finalized. I don't know if it's been
6 transmitted.

7 MR. STIVER: Dr. Melius, this is
8 John Stiver. It's almost ready to go to DOE
9 for review as of today.

10 CHAIRMAN MELIUS: Okay.

11 MR. STIVER: So I anticipate, you
12 know, depending on how long they take, maybe
13 a couple of weeks. But certainly it's not
14 longer than that.

15 CHAIRMAN MELIUS: Okay.

16 DR. NETON: John, this is Jim
17 Neton. Refresh my memory, is that TIB-81?

18 MR. STIVER: No. We're referring
19 to Report 55, the trivalent actinides
20 coworker model. That was the last of the
21 nuclide specific models that we were looking
22 at.

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1 DR. NETON: Right, got you.

2 Sorry.

3 CHAIRMAN MELIUS: And it sort of
4 got, well one, we got referred to the SEC
5 Work Group because we were dealing with
6 coworker issues. But the fact that we were
7 dealing with coworker issues in a more
8 general way than that site specific, took a
9 little bit of time.

10 And I think SC&A was sort of
11 waiting for us to make some progress before
12 they sort of knew how to go about reviewing
13 it to make that review more appropriate for
14 the issues we were concerned about here.

15 So I just wanted to keep it on
16 the NRQ here. And that would, again, be
17 part of a Work Group meeting we might hold
18 after the next Board meeting. But Ted,
19 anything else?

20 MR. KATZ: No, no. I think we
21 covered everything nicely.

22 CHAIRMAN MELIUS: Good. Boy, I

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1 beat my fire drill. Either that or the
2 building's burned down around me. I can't
3 tell or I must have not heard the sirens,
4 bells. But anyway, if no other business,
5 thank everybody.

6 Thank you, Jim, a lot of work
7 that you've done on this effort, and SC&A
8 and everybody also. And I guess we'll see
9 everybody in Los Angeles next week, or hear
10 your voices.

11 (Whereupon, the above-entitled
12 matter was concluded at 3:01 p.m.)

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