

This transcript of the Advisory Board on Radiation and Worker Health, Pinellas 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 Pinellas Plant 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
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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

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WORK GROUP ON PINELLAS

+ + + + +

MONDAY
NOVEMBER 19, 2012

+ + + + +

The Work Group convened telephonically at 11:00 a.m., Eastern Standard Time, Phillip Schofield, Chairman, presiding.

PRESENT:

PHILLIP SCHOFIELD, Chairman
BRADLEY P. CLAWSON, Member
JOHN W. POSTON, SR., Member
LORETTA R. VALERIO, Member

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ALSO PRESENT:

2

TED KATZ, Designated Federal Official
BOB BARTON, SC&A
MEL CHEW, ORAU Team
PETE DARNELL, DCAS
BRIAN GLECKLER, ORAU Team
DONNA HAND
KARIN JESSEN, ORAU Team
JENNY LIN, HHS
JOHN MAURO, SC&A
ROBERT MORRIS, ORAU Team
JIM NETON, DCAS
JOHN STIVER, SC&A
ABE ZEITOUN, SC&A

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T-A-B-L-E O-F C-O-N-T-E-N-T-S

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1 P-R-O-C-E-E-D-I-N-G-S 4

2 (11:00 a.m.)

3 MR. KATZ: Okay. Very good. It's
4 11:00 a.m., it's start time. This is the
5 Advisory Board on Radiation and Worker Health,
6 Pinellas Work Group. And we will get started
7 with roll call.

8 We're speaking about a specific
9 site, so for all Agency-related and Board-
10 related officials, please speak to conflict of
11 interest as well. And we will get going. So
12 roll call, starting with our Board Members,
13 with the Chair.

14 (Roll call.)

15 MR. KATZ: Very good. That
16 completes roll call. Let me just remind
17 everyone on the lines to please mute your
18 phone except when you're addressing the group.

19 Press *6 is you don't have a mute
20 button to mute your phone. Press *6 again to
21 take your phone off of mute. Please don't put
22 the phone call on hold at any point. But hang

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1 up and dial back in if you need to go for a
2 piece.

3 And let me also note for
4 everybody, the agenda for the meeting should
5 be posted on the Advisory Board under the, on
6 the NIOSH website under the Advisory Board
7 section, under meetings for today's date.

8 And there may now be a White Paper
9 also posted there from SC&A. And it's also
10 been distributed by other means this morning.

11 And, Phil, it's your agenda. Phil, you might
12 be on mute.

13 CHAIRMAN SCHOFIELD: There's been,
14 NIOSH did a substantial re-write of a lot of
15 the Technical Basis Documents. And we had
16 some on-site interviews with personnel earlier
17 this spring, with site experts, to try and
18 flesh out some of the questions we had.

19 And I do appreciate all the work
20 that Abe and everybody, and John and Pete, and
21 have all put into this, and Brian. So I guess
22 we'll go ahead and start with the kind of

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1 summary, since John did the summary there of
2 the site interviews, if that's okay with John.

3 MR. STIVER: Okay. That's fine
4 with me. My voice is almost shot here. I'm
5 going to try to parse my words very carefully.

6 We did the site interviews following the
7 meeting back in October, where NIOSH presented
8 the revisions to the TBD, very extensive
9 revisions.

10 And we had some ongoing issues
11 from our 2006 review of the original TBDs,
12 which we were tasked to carry through. I
13 believe there's seven of them listed in the
14 paper I sent around to everybody.

15 And to help resolve some of these
16 we were also tasked to go do some site
17 interviews at, down in the Pinellas area,
18 which we did in late January of this year. We
19 had originally planned to interview 13
20 individuals.

21 We were able to interview 12 of
22 them. And that went very, very well. We were

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1 able to get a lot of useful information. J
2 listed here, that was Phil, myself, Abe and
3 Peter.

4 But I forgot to mention also
5 Dennis Vernon from DOE. And without him I
6 don't think this whole thing could have
7 happened. He was very instrumental in making,
8 taking care of all the logistical aspects.

9 We are now in the place where we
10 received the comments, the interview
11 summaries, back from the respective
12 interviewees. They are now in the position,
13 through one DOE review, almost finished.

14 I've got two more to go back
15 through and make sure that all the details are
16 correct. And after that they're going to go
17 back to Dennis, and then be distributed out to
18 the various interviewees.

19 This process has taken a lot
20 longer than we had originally anticipated.
21 Back when Kathy DeMers was kind of the force
22 of nature behind all things related to

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1 outreach, she got around the whole show. 8

2 And this system that we had worked
3 pretty well, that as a result of mainly
4 Pinellas and some other things, that we've
5 actually proposed some changes to the work
6 procedure tab that we hope will kind of
7 streamline the process.

8 But anyway, I think we're in a
9 place now that I think, probably by virtue of
10 the interviews and the information we
11 discovered, to where we can close out, or be
12 very close to resolving most of these seven
13 issues.

14 Now the first one, this is Issue
15 1. And this is the review of the documents
16 that were in the summary of data capture
17 searches. This is in a whole compendium of
18 references that NIOSH had put together
19 originally for their, the first round of TBD
20 reviews.

21 And we had come up with a finding
22 back, you know, and remember this is a

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1 snapshot in time from six years ago, when we⁹
2 were kind of under the impression that there
3 was a lot of this data coming from 1980 and
4 beyond.

5 And we're going to be stuck with
6 this, or we're going to have to deal with this
7 situation we've had in the past, where you
8 have to back-extrapolate your earlier years
9 because of the paucity of data in those years.

10 And so we're kind of concerned
11 that the coworker model might not adequately
12 represent exposures that might have taken
13 place in that 1957 to 1979 time frame.

14 But since the October meeting I
15 went back to TBD-6, Appendix B, which is the
16 NIOSH coworker model. And actually I believe
17 it's on Page 54 of that model.

18 I don't know if anybody has that
19 up right now, from TBD-6, Table B-1. And this
20 is a very nice summary presentation. This is
21 the numbers of monitored personnel, and doses
22 are binned by those greater than 100 and those

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1 greater than 20, from 1957 up through 1994. 10

2 And when you look at this data
3 set, it does not look like there is a paucity
4 of data pre-1980 at all. If anything, I think
5 in 1957 and 1958 for only 71 and 142.

6 But beyond that it kind of
7 stabilizes at around 250, then about 350
8 personnel, for a total of roughly around 1500.

9 About a fifth of them were monitored. And
10 the way this model is set up is kind of
11 interesting.

12 It's -- rather than as we would
13 have expected, you know, back in this historic
14 time frame, we'd have thought that we'd try
15 to, you know, have the granularity to assign
16 doses by year, or whatever.

17 But due to the uncertainties and
18 involved in doing that, and, you know, the
19 limitations in those earlier years -- like
20 NIOSH, they just created a distribution for
21 all the entire time period. And this is a
22 distribution of whole body dose.

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1 It's actually a mixture of
2 external photon dose, neutron dose, and also
3 tritium dose. I believe Brian can correct me
4 if I'm wrong. But the interpretation I had
5 was that it really was possible to tease out
6 the various components.

7 MR. GLECKLER: That's correct.

8 MR. STIVER: And so this is a
9 distribution of whole body doses, and picked
10 off the 95th percentile. And basically that's
11 going to get, all unmonitored workers are
12 going to be assigned this 95th percentile
13 coworker dose.

14 And when you look at the entire
15 distribution you really would have to -- if
16 you have uncertainty, it would be introduced
17 by adding a few extra sets of data in
18 particular years that are kind of washed out.

19 Because, to have an impact on the
20 95th percentile, you'd have to have a sea
21 change in the exposure potential compared to
22 what we know was actually existing at that

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1 point.

12

2 And so at this point, I don't
3 think there's really a lot to be gained by
4 running this thing to ground and checking
5 every reference that was put in place. I
6 think NIOSH has done a commendable job.

7 They've added a lot of new
8 references for the descriptions we've seen.
9 They seem to be appropriate and adequate. And
10 based on the new approach for the coworker
11 model, I just don't see that this is really a
12 pertinent issue at this point in time.
13 Anybody else would like to weigh in?

14 MR. DARNELL: Yes. This is Pete
15 Darnell. I agree.

16 MR. STIVER: Okay. Then if nobody
17 has any objections, I think we can close out
18 that issue.

19 CHAIRMAN SCHOFIELD: Okay. So
20 let's move on to Issue Number 2 there.

21 MR. STIVER: Give me a second to
22 catch my breath.

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1 CHAIRMAN SCHOFIELD: Sorry,¹³

2 Jumping the gun.

3 MR. STIVER: Okay, this is John.
4 I'm back. The second issue is related to the
5 Mound or the stable metal tritides intakes.
6 And we know this is, you know, by virtue of
7 the manufacturing processes that were going
8 on, basically building neutron tubes, where
9 you had these targets that would have a metal
10 film vapor deposited on to the targets. And
11 then --

12 MR. DARNELL: John. This is Pete.

13 MR. STIVER: Yes.

14 MR. DARNELL: We don't need to
15 discuss the process.

16 MR. STIVER: Right, right. But
17 the model that NIOSH had put forward was based
18 on the earliest iteration of the Mound
19 tritides model, which was, I believe, released
20 shortly after our October 2011 meeting.

21 Since that time, that model has
22 undergone, there have been many White Paper

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1 exchanges and Work Group meetings. And that¹⁴
2 basically resulted in the refined model that
3 is actually going to be used for dose
4 reconstruction at Mound. And for which the
5 Board found that it was scientifically sound
6 and claimant-favorable.

7 And so we have the situation again
8 where there is a snapshot in time. You know,
9 the paradigm has kind of shifted since that
10 original review and since the meeting in
11 October.

12 SC&A, we believe that that is a
13 good model, that Mound model. Its
14 refinements, the parameter values that were
15 selected, such as the resuspension factor of
16 five times ten to the minus five per year from
17 NUREG/CR-5512. And some other aspects that
18 are covered in extreme detail in our review
19 and the various exchanges.

20 The only fly in the ointment that
21 I see at this point is that we have not yet
22 reviewed the data, the GE reports from 1967 to

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1 1973, the health physics reports. Basically¹⁵
2 these are the swipe data that were used to
3 ascertain which were the -- and in this case I
4 believe NIOSH is planning to use the highest
5 value that we found, which was, I believe, in
6 1970, whereas the Mound model used the 95th
7 percentile on a yearly basis.

8 The Mound model had a huge amount
9 of data. I believe it was like 50,000 or
10 60,000 individual data sets, data swipes,
11 samples that were combined over a period of
12 approximately 20 years.

13 And Bob Barton did a yeoman's job
14 of reviewing that data and analyzing it. I
15 would say that before I would be comfortable
16 signing off on the use of this model, we would
17 like to look at that data set and do kind of a
18 similar completeness evaluation, like we did
19 for Mound.

20 I think the model is fine. But
21 like with any model, you know, the quality of
22 the data that's going into it is really going

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1 to be the determinant here. 16

2 DR. NETON: John, this is Jim
3 Neton. Are you finished?

4 MR. STIVER: Yes, I am.

5 DR. NETON: I've taken a look at
6 what we're doing for Pinellas for tritides.
7 And I had to refresh my memory. And in doing
8 this I've noticed that there's a couple of
9 things that NIOSH probably needs to do before
10 you guys would review this.

11 As you pointed out there is a
12 difference in the way the Mound model works,
13 versus what's being done at Pinellas. And
14 most notably that's the resuspension factor.

15 Pinellas uses a one times ten to
16 the minus sixth per year, as opposed to five
17 times ten to the minus fifth, as used in
18 Mound.

19 And also, we're using in Pinellas
20 the highest value, that you correctly pointed
21 out, that was identified through the 1970 time
22 frame. It's much higher, by an order of

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1 magnitude or more, than what was observed over¹⁷
2 the entire period.

3 And so I'm wondering if we
4 shouldn't go back and re-look at those data to
5 see how this model plays out in light of what
6 was at Mound. And in particular, you know,
7 the mix of different forms of stable metal
8 tritides or tritides themselves that may have
9 been there.

10 And finally, I have picked up on
11 an error in this model that we've identified
12 using TIB-9 to calculate ingestion intakes. I
13 don't know if you were involved in the
14 conversation we had on the TIB-9 issue at the
15 Subcommittee meeting last week or so ago.

16 MR. STIVER: Yes, yes. I was
17 there on that one.

18 DR. NETON: And it turns out that
19 what we were doing for ingestion intakes, in
20 some cases, and it turns out this is also the
21 case in Pinellas, is incorrect.

22 We took the surface contamination

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1 of ten to the eighth, I think, DPM per square¹⁸
2 meter. And calculated an airborne
3 concentration of 440 DPM per cubic meter. And
4 then we said ingestion will be 20 percent of
5 that value on a daily basis.

6 That's the TIB-9 approach. But
7 the fact is that you can't use a resuspension
8 factor to come out with a daily ingestion
9 intake. It's just not appropriate.

10 So at a minimum, the inhalation or
11 ingestion intakes are going to have to be
12 revised for Pinellas, along with a number of
13 other TBDs.

14 But so I think it behooves us to
15 take a look at this, and fix at a minimum that
16 issue. And then maybe do a review of the
17 model that we use for inhalation, in light of
18 what we've done in Mound.

19 MR. STIVER: This is John. That
20 would be perfectly fine with us.

21 DR. NETON: I don't think it makes
22 sense for you guys to embark on a review at

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1 this point, when we know at least we have one
19
2 issue.

3 MR. STIVER: Right. Yes, I would
4 agree. Make sure that you have the definite
5 latest and greatest version before we take a
6 look at it.

7 DR. NETON: Yes. And as you said,
8 a lot of thinking has gone on related to
9 stable metal tritides and exposures. And I'd
10 like to verify that what we did at Mound is
11 either appropriate or not at Pinellas. And if
12 not, you know, look at what we've done and see
13 if it still holds water.

14 MEMBER CLAWSON: Hey, Jim, this is
15 Brad Clawson.

16 DR. NETON: Yes.

17 MEMBER CLAWSON: What type of a
18 time frame are we looking at for you guys to
19 kind of go through this and revise?

20 DR. NETON: I just discovered this
21 yesterday, I haven't really had much time to
22 think about it, Brad. But --

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1 MEMBER CLAWSON: Well, and ^I 20
2 understand that, Jim. I'm not trying to put
3 you into a corner. It's just that Pinellas
4 has gone on for so long, I just, you know, I
5 didn't want to embark on another --

6 DR. NETON: I don't think this is
7 going to be a major effort, to be honest. The
8 fixing of the TIB-9 approach for ingestion is
9 a simple fix. It really comes down to whether
10 we use one times ten to the minus six per
11 meter or something else.

12 And do we use the highest surface
13 contamination level ever measured over a 15 or
14 so year period? Those are the two things I
15 really want to look at. I don't think it will
16 take a long time.

17 MEMBER CLAWSON: Okay. I just, I
18 was just trying to get a feel for it.

19 DR. NETON: I don't, you know, I
20 don't control the resources at this point. So
21 I can't tell you that. But we could get you
22 an estimate, yes.

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1 MEMBER CLAWSON: Well just, you²¹
2 know, just so the Work Group kind of knew what
3 we were working toward and stuff. It's just -
4 -

5 DR. NETON: This is not like the
6 capture or anything like that. It's not going
7 out for additional information. It's just
8 simply looking at the data we have and trying
9 to make the most sense of it in light of what
10 we did at Mound.

11 DR. MAURO: Jim, this is John
12 Mauro. I have just a couple of suggestions
13 that might be helpful, since you'll be, you
14 know, moving into your data.

15 As John had pointed out before,
16 one of the areas that we would, I guess,
17 eventually look at is data gap analysis
18 regarding the completeness of your data set,
19 the swipe data. As we did, as Bob Barton did,
20 when we reviewed your Mound data set.

21 That was critical, making sure
22 that you had -- and you had an abundance of

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1 data. While you're in that process, the²²
2 degree to which you could put together some
3 metrics showing places where there may have
4 been some gaps, if there were any, and how to
5 deal with those gaps.

6 This would help to complete the
7 story, if you haven't done that already. You
8 may have done that already. So as part of
9 your revisit of it, that might be helpful.

10 The other suggestion has to do
11 with -- I know we're talking about tritides
12 and resuspension. I seem to recall that
13 tritiated water -- now changing subjects on
14 you a little bit -- in some venues, and it may
15 have not been this one, the resuspension
16 approach, whether it's ten to the minus six,
17 or five times ten to the minus five per meter
18 was applied to tritiated water during the
19 residual period, which seemed to be a strange
20 thing to do.

21 And I'm not sure if that was done
22 here. If it hasn't been, disregard the

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1 comment. But if it was, that may be another²³
2 subject that's of interest, because of the
3 mechanics involved.

4 DR. NETON: You're saying that we
5 used a resuspension factor for treated water
6 in the residual period?

7 DR. MAURO: I'm not -- I have to
8 apologize. I'm not sure. I did come across
9 that in one of the reviews I've done recently.
10 And I'm not sure the degree to which you
11 might have done that here.

12 You may not have, and then just
13 disregard this comment. It's just something
14 that was on my mind that I thought perhaps was
15 done here. If not, then disregard the
16 comment.

17 DR. NETON: Okay. We'll take a
18 look at it, John.

19 CHAIRMAN SCHOFIELD: Jim, I got a
20 quick question. This is Phil. On the swipe
21 data, is that, those swipes like from the
22 daily RTG swipes? Or are these incident-

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1 driven swipes to get that number, 400? 24

2 DR. NETON: You know, I've not
3 been involved with this intimately. But my
4 recollection was that it was routine
5 contamination surveys, not just incidents.

6 CHAIRMAN SCHOFIELD: Okay.

7 DR. NETON: I'm trying to recall.
8 They had a limit that they considered to be,
9 you know, their maximum allowable surface
10 contamination levels. And then they would
11 clean up as they saw things go above that, to
12 my recollection.

13 MR. BARTON: If I could make a
14 comment here? This is Bob Barton with SC&A.
15 This kind of goes along with John Mauro's
16 first comment. To do a completeness analysis
17 it doesn't necessarily -- the actual model
18 doesn't necessarily have to be perfect.

19 Because as Jim Neton said, we're
20 not going to go out and get any more data.
21 The data's not going to change. So if we kind
22 of wanted to move this along quickly, we could

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1 review the model solely on its base data, and²⁵
2 not look at assumptions like the resuspension
3 factor and all that stuff that can be
4 discussed and, you know, done later on down
5 the line.

6 But we can just take a look and
7 see are the gaps in the data, you know, is
8 there a reason to think that if there are gaps
9 that these might have had significantly higher
10 results, or anything like that.

11 So, I mean, we could still almost
12 work in tandem, where NIOSH is revising the
13 implementation of the model, where we just,
14 SC&A just solely looks at the data from a
15 completeness perspective.

16 DR. NETON: I'm totally okay with
17 that. This is Jim Neton.

18 MR. STIVER: Yes. This is John
19 Stiver. I was hoping somebody would say that
20 and save me the trouble of having to do it.

21 DR. NETON: And it's something
22 that you would have been doing anyways. And

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1 you're right. There are two compartmentalized²⁶
2 pieces of work. I mean, neither one relies on
3 the other one for completion. So yes, I think
4 it makes sense to me.

5 MR. STIVER: Okay, Ted. So then I
6 would take the lead to have the okay to go
7 ahead and proceed with a completeness
8 analysis.

9 MR. KATZ: Yes. Thanks, John.
10 And then, Jim, if you would just, at whatever
11 point you sort out how long it will take you,
12 a rough guess for when you'll be done with
13 considering the application of the mode or the
14 design of it. If you just send it out to the
15 whole Work Group so they know timing for that,
16 that would be great.

17 DR. NETON: Yes. I'll do that.

18 MR. KATZ: And then when we have
19 that in hand, John, you can then take it up
20 as, and look at the final product from NIOSH.
21 Okay?

22 MR. STIVER: Right.

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1 MR. KATZ: Okay. 27

2 MR. STIVER: I guess we can move
3 on to Issue 3. This has been resolved. This
4 was a matter of removing some verbiage
5 regarding plutonium in the TBD-5.

6 Issue Number 4, revisit
7 discussions that resulted from our White Paper
8 review of plutonium bioassay data. And this
9 is really to confirm that they were
10 essentially all null results.

11 And this is another thing that
12 kind of, we were able to get a much better
13 understanding of at the interviews. We
14 happened to interview a particular individual
15 who was very knowledgeable in destructive
16 testing of RTGs, including quite a bit of
17 classified information about that.

18 And he was able to indicate that
19 there is a handful of people, probably less
20 than ten, the crew from the RADs health and
21 safety and then his group, who would have had
22 by far the highest exposure potential to

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1 plutonium of anybody in that whole site for²⁸
2 any period of time.

3 And there were him and one of the
4 other interviewees indicated that they could
5 get that data for us, the bioassay data. And
6 then we would be able to take a look at that.

7 And then that would provide the
8 confirmation that indeed we can put this to
9 rest. And so we would like to follow through
10 on that and get that data, and then take a
11 look at it.

12 MR. DARNELL: John, this is Pete
13 Darnell. I'm looking at my notes right now
14 from this set of interviews. And what I had
15 written down is that they didn't actually
16 destructively test the Pu source. They did
17 destructive testing on the RTG, but not the
18 Pu.

19 MR. STIVER: Okay. Well my
20 understanding and in my notes was that they
21 actually did destructively test when the
22 source was intact. And then that would be

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1 something that we would want to follow through²⁹
2 on and to get confirmation from the
3 interviewee.

4 But in any case, I think that we
5 should follow up on that and see if we can get
6 a hold of that data. Certainly, if we can
7 identify that this is a subset of highest
8 exposure potential, that's going to pretty
9 much put this one to rest.

10 MEMBER CLAWSON: So John, this is
11 Brad Clawson. We don't have that data yet?
12 They were going to provide it to you?

13 MR. STIVER: No. We don't have it
14 yet. In light of what Peter just said, the
15 fact that we have conflicting notes, I think
16 we should get confirmation from that
17 interviewee regarding this.

18 This is going to be a classified
19 thing. Then go into how we might think about
20 doing that in a reasonable amount of time.

21 MEMBER CLAWSON: Well, when we
22 were at Sandia we talked to an individual

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1 there too who was talking about the non-³⁰
2 destructive process and the destructive
3 process for some of those. Yes, so that would
4 be very good.

5 I was just wondering where all are
6 we going to be able to get this information?
7 Is it going to be readily accessible? Or this
8 going to be a Easter egg hunt?

9 MR. STIVER: According to the two
10 interviewees, it was readily available.

11 MEMBER CLAWSON: Okay.

12 MR. STIVER: Okay.

13 MEMBER CLAWSON: Thank you.

14 CHAIRMAN SCHOFIELD: John, this is
15 Phil. I'm going by memory on some of the
16 interview stuff. But if I remember right, the
17 RTGs were not actually penetrated. If they
18 were, that's a new ball game there.

19 MR. STIVER: Yes. Okay. Well, I
20 think we're going to have to follow up with
21 that interviewee, and get that one.

22 MR. ZEITOUN: John, this is Abe.

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1 I remember this question was asked, as you³¹
2 recall, Phil and I. And nobody confirmed any
3 of that stuff. So I think we are -- it's a
4 benign issue right now.

5 MR. STIVER: Okay.

6 MR. ZEITOUN: I think.

7 MR. STIVER: Okay. I would still
8 feel a lot more comfortable if we could get
9 confirmation from that particular person.

10 MR. ZEITOUN: Sure, sure. I am
11 just saying I think that question was raised.

12 But --

13 MR. STIVER: Okay.

14 MR. ZEITOUN: We have limited
15 people as I recall, anyway.

16 MR. KATZ: I'm sorry. But can you
17 just clarify, John, what is the path forward
18 exactly for --

19 MR. STIVER: I think the path
20 forward at this point is to obtain
21 clarification from that particular interviewee
22 --

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1 MR. KATZ: Right. 32

2 MR. STIVER: -- as to whether
3 there was ever a breach of the source during
4 the testing.

5 MR. KATZ: But, so, I mean, my
6 understanding was that you had these
7 interviews, you documented them, and you've
8 already sent this information back to get sort
9 of approval the people you interviewed that
10 you've captured the information correctly.
11 Isn't that where we are with this process? Or
12 is this --

13 MR. STIVER: We are. So it's
14 going to be a matter of -- And I don't know
15 how long it's going to take to have that go
16 back through DOE again, and then go out to the
17 interviewee. So it could be a couple of
18 months down the road.

19 MR. KATZ: Okay. But -- I'm just
20 trying to be clear. So we don't actually have
21 to go back and interview anyone again? That
22 information is captured in those notes. It's

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1 just that those notes are in the classified³³
2 review process. Is that correct?

3 MR. STIVER: Correct.

4 MR. KATZ: Okay. All right.
5 Thanks.

6 MR. DARNELL: No, that's not
7 correct.

8 MR. KATZ: Oh.

9 MR. DARNELL: This is Pete
10 Darnell. The notes have been reviewed by DOE.
11 The redacted notes have been returned. The
12 classification process has already taken
13 place.

14 We have our notes from the
15 interviews that we're allowed to have and that
16 we are allowed to talk about. Classified
17 stuff that's already been classified and taken
18 over by DOE.

19 MR. KATZ: Okay, then. So the
20 question then on the table is do people have
21 to be -- is this information captured in the
22 information that we received back from DOE,

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1 cleared and redacted? Or does someone need to
2 go back into classified information to sort
3 out the question that's on the table?

4 MR. DARNELL: According to the
5 information I have from Mr. Vernon, it's been
6 cleared and redacted.

7 MR. KATZ: My question is: the
8 question that you guys just discussed, is it
9 resolved in the information that was cleared
10 and returned to you? Or do you have to go
11 back, either interview this person, or go back
12 to classified information to sort out the
13 question that is being discussed here?

14 MR. STIVER: I think, Ted, that
15 this is going to have to be a follow-up. I
16 think we're going to have to go back. Because
17 it's not clear to me that that was indeed the
18 case. That there was any actual confirmation
19 that that wasn't a source of exposure.

20 MR. DARNELL: I specifically asked
21 that question, have it on my notes. I can
22 tell you the person's name and the time I

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1 asked the question about RTG failure analysis³⁵

2 Tests were conducted and the
3 plutonium source removed. Failure analyzed to
4 find out why it failed. I asked that question
5 specifically of [identifying information
6 redacted].

7 MR. STIVER: Okay. I was talking
8 about [identifying information redacted].

9 MR. DARNELL: Those notes have
10 been -- my notes on that have been redacted.
11 And the DOE has control of those, because they
12 were classified.

13 MR. KATZ: Hey, John --

14 MR. STIVER: Those are the people
15 who are actually involved in the testing. And
16 to my knowledge, and what I wrote, and my
17 somewhat kind of less than perfect memory of
18 the whole situation --

19 MS. LIN: John and Pete --

20 MR. STIVER: They did actually
21 test those, destructively test them with the
22 sources intact.

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1 MS. LIN: Hi, this is Jenny with³⁶
2 OGC. Can you please refrain from mentioning
3 the individuals' names in this conversation?

4 MR. DARNELL: Yes, of course.
5 Sorry about that. I will say this, my
6 recollection of the conversation is agreeing
7 with you that the sources were intact, okay.

8 The sources themselves were not
9 subject to failure testing, okay. And this is
10 the key point. The RTG itself was failure-
11 tested. The source itself was not failure-
12 tested.

13 You have a triple encapsulated
14 source that was brought to the site clean, as
15 we have documentation of. Remained at the
16 site clean from -- by "clean" I mean free from
17 radioactive contamination.

18 So what we have is an external
19 exposure potential, period. There was no
20 destructive testing of the plutonium source
21 itself.

22 MR. STIVER: Okay, Peter. I'm kind

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1 of losing my voice here. But I see where³⁷
2 you're going with this. My concern was that
3 they were, when the RTGs were destructively
4 tested there was a possibility that there
5 could have been a breach in the source, in the
6 heat source itself.

7 MR. DARNELL: Was it --

8 MR. STIVER: I'm saying that you
9 have evidently more detailed recollection that
10 that did not happen.

11 MR. DARNELL: Well, you see, the
12 other thing that I have also is the survey
13 records and documentation of the site. We
14 don't have a survey documenting plutonium
15 contamination.

16 We don't have bioassays that would
17 show a chronic exposure to plutonium. We were
18 told during the classified interview how those
19 testings were done, and the protective
20 clothing that the personnel were wearing, and
21 what the method that was used for containment.

22 MR. STIVER: Okay. Well, you

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1 know, to close the loop on this, if we could³⁸
2 get the bioassay for those individuals that
3 would certainly put an end to it.

4 And we can say for absolute sure,
5 these are the people who were involved in this
6 process. There is no indication of an intake
7 whatsoever among these people, then we can
8 close this issue out.

9 MR. GLECKLER: This is Brian
10 Gleckler. I believe we have all the bioassay
11 data captured for the plutonium bioassay. And
12 it should be referenced in the TBD.

13 MR. STIVER: Do you have it
14 reference by name?

15 MR. DARNELL: The entire basis for
16 removing the plutonium bioassay information
17 from the TBD was that there was no positive
18 bioassay ever seen on the site for plutonium.

19 Also, the backup was the contamination
20 surveys.

21 And the backup was the
22 transportation surveys. And the backup was

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1 Phil Schofield telling us how Mound shipped³⁹
2 them to Pinellas. You know, it's in the SRDB
3 now. There's a table --

4 MR. STIVER: if we have the
5 bioassay data for those individuals and it's
6 also negative, then I think we can close this
7 issue out.

8 MR. GLECKLER: It may not be
9 referenced in the TBD anymore, because we took
10 out all, a lot of the Pu stuff.

11 MR. STIVER: But if we have it in
12 the SRDB, the two individuals I'm thinking
13 about indicated that they could add that data
14 set, which led me to believe that was not
15 already in the data set.

16 CHAIRMAN SCHOFIELD: Yes, this is
17 Phil. I think we do need to definitely
18 clarify whether there were any positive
19 results or not.

20 I'm kind of like Pete and John, my
21 memory seems a little rusty there. But at the
22 same time, I do not remember them stating that

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1 they had any breaches. 40

2 MR. STIVER: I didn't remember
3 them stating that either. And it's just there
4 was never a positive statement that there
5 wasn't a breach either.

6 CHAIRMAN SCHOFIELD: Right.

7 MR. STIVER: So yes, if we can
8 look at the bioassay data from the handful of
9 individuals, do we dare say -- you know, if
10 they're in the system and they're negative,
11 then there's no problem.

12 My only concern was that it
13 appeared to me from the interview that there
14 was additional data that had not been added
15 into the SRDB yet. That may or may not be
16 true. But I think it would behoove us to at
17 least follow this down.

18 MR. DARNELL: John, this is Pete.
19 You also have to remember who we were talking
20 to. You have one subset of people that we
21 interviewed that were, had the classified
22 clearances, were part of the work, and

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1 understood the process that was going on. 41

2 Then you had another subset of
3 individuals who were not part of the process,
4 had not been brought in on the classified
5 information, and did not understand what was
6 going on with these processes.

7 You cannot take someone who does
8 not understand the process that, as it's going
9 on behind locked doors in a classified and
10 controlled manner, and take what they have as
11 saying there's no data, or not all the data
12 was there. And that's what you're doing.

13 MR. STIVER: Peter, I understand
14 100 percent what you're saying. But the
15 individual I'm thinking of, without saying his
16 name, was certainly probably the most
17 knowledgeable one of the entire staff on the
18 RTG side. I think you know who I'm talking
19 about.

20 MR. ZEITOUN: This is Abe. I have
21 the same recollection as John, that there are
22 -- I got the impression after I left that

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1 there are additional data available. 42

2 And that's part of the thing. And
3 I remember we discussed that. And my
4 impression is the same as John's. So we need
5 to close that loop I think.

6 MR. STIVER: Yes. I think we can
7 probably seek that off line, and track it
8 down. Again that data, it was not new data.
9 And it's already treating this thing, then the
10 issue goes away. If it isn't we need to
11 verify it. That's all I'm really looking for
12 here.

13 MR. ZEITOUN: Yes.

14 MR. DARNELL: I mean, what I'm
15 looking at is what the health physicist that
16 we interviewed talked about. And he does not
17 back up your recollection of what this other
18 man talked about as far as plutonium bioassay
19 not being there.

20 You know, if you want to look for
21 more, by all means. But I don't believe that
22 as far as this issue goes, that there is more

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1 to find. I think if we just keep on chasing⁴³
2 ifs and maybes, we're going to waste a lot of
3 time with doing that.

4 MR. STIVER: Okay. We may very
5 well be chasing smoke here. But I would
6 certainly like to close the loop on that. I
7 don't think it would take that much effort on
8 our part.

9 MR. DARNELL: Before we go
10 further, would you please review your notes
11 for the health physicist, okay?

12 MR. STIVER: You're talking about
13 the guy we talked to on the telephone
14 interview? Or the other one?

15 MR. DARNELL: Yes.

16 MR. STIVER: Okay.

17 MR. DARNELL: He was very -- I
18 asked very specific questions to him regarding
19 the RTG testing. And if there were anybody
20 that were in the know for the bioassay and the
21 radiological controls, it would be him, okay.

22 And in both cases he answered negatively to

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1 what you're saying that we need -- 44

2 MR. STIVER: I will go back
3 through and I guess Abe, and Peter and I can
4 take this up off the record, if that's okay
5 with you, Ted.

6 MR. KATZ: Oh, no. That's
7 absolutely fine. Why don't you -- clearly you
8 need to have resolution in your mind, John,
9 about this. And following up with them off
10 line is perfectly fine. Okay.

11 MR. DARNELL: John, may I ask that
12 you please get in touch with me today, or at
13 the latest tomorrow. I have personal
14 considerations. I'm going to be out for the
15 rest of the year after tomorrow.

16 MR. STIVER: Okay. I will do.

17 MR. DARNELL: Thank you.

18 MR. STIVER: All right. I can go
19 for a little bit longer here. Next is Issue
20 Number 5. And this was the performance
21 characteristics in the TBD-6 for the film
22 badge dosimeters.

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1 We did a review of that. This⁴⁵

2 Attachment 2 highlights our findings in there.

3 And those of you who have that open, it
4 starts on Page 7. And we really kept it down
5 to, in Table 6-5, well let's see -- I have
6 mine right here.

7 This is the original version, used
8 .02 rem as the MDA for the Landauer film.
9 Table 6-9, which is the most current version,
10 uses .01 for the limit of detection.

11 We, the only issue we had in this
12 aspect of it was that we felt in the energy
13 photon environment, the LOD of 0.02 rem was
14 probably more appropriate and claimant-
15 favorable. We also noted that in our review
16 of the INL Site Profile, came to the same
17 conclusion.

18 And so we also note in pre-1974
19 film batch dosimetry reviews are fairly
20 claimant favorable LOD of .04 rem. But for a
21 non-Landauer it's being recommended that --
22 Or excuse me, for non-Landauer film the 40

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1 mrem is being recommended, but not for⁴⁶
2 Landauer.

3 So that was our only concern, that
4 we would recommend that the value in Table 6-9
5 be changed from .01 to .02. Everything else
6 we found was reasonable and claimant-
7 favorable.

8 MR. GLECKLER: This is Brian
9 Gleckler. What's the basis for the
10 recommended LOD that you, your Landauer --

11 MR. STIVER: Well the only thing
12 we can find is that there -- well this is
13 speculation at this point. But there was
14 broad brush type claim by Landauer that they
15 could reach a detection limit of ten millirem
16 in their older dosimetry reports and client
17 literature.

18 But when the other film goes in
19 there that was in that era, ten rem would have
20 been a pretty unthinkable feat to achieve.
21 Because, you'd have issues of background
22 fogging, processing changes, the precision, or

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1 I guess the granularity of the, what on that⁴⁷
2 corresponds to how many --

3 You know, a feel for the high
4 energy photons for those reasons that we've
5 enumerated there in the attachment to the --
6 it would probably be more realistic, and more
7 claimant favorable to go back to .02, as to
8 .01.

9 MR. GLECKLER: That's for high
10 energy photons?

11 MR. STIVER: Yes. The type that
12 we would be dealing with in this situation.

13 MR. GLECKLER: Yes. For the
14 neutron generator testing though, those were
15 X-rays. So those more likely would be low
16 energy photons. We do use the 30 to 250 keV
17 photon energy distribution though.

18 MR. STIVER: Yes. And, you know,
19 based on the distribution that you'd be using
20 --

21 MR. GLECKLER: Yes. MR.
22 STIVER: -- that would probably be more

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1 appropriate for that film type. John Mauro⁴⁸

2 are you still on the line?

3 MR. DARNELL: Hey, John, this is
4 Pete Darnell.

5 MR. STIVER: Yes.

6 MR. DARNELL: Are you speaking
7 specifically to the photographic film? Or to
8 Landauer type G, B or --

9 MR. STIVER: That -- Let me pull
10 up the -- Yes, Table 6.9 here, on I believe
11 Page 31. It's probably the 1974 in July, and
12 up through 1990. And you can see --

13 MR. DARNELL: Okay, it's not the
14 dosimeter now, the film.

15 MR. STIVER: Yes, this particular
16 dosimeter.

17 MR. DARNELL: Brian, do we have
18 any further information on why we chose .01?

19 MR. STIVER: I guess because we
20 didn't fill this in, there's a reason for
21 that. And maybe it's a legitimate reason.

22 MR. GLECKLER: I'm not familiar

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1 with the basis for that, other than it was in⁴⁹
2 the original TBD, which I wasn't the original
3 author on. So I just maintained those values.

4 But from what I remember, I've
5 looked at Landauer stuff for other sites to
6 come up with approaches using, you know, track
7 down LODs.

8 And it looks like they used what
9 we've used for other sites if you go into the
10 Landauer literature, which is mostly like the
11 fronts and the backs of the dosimetry reports,
12 or dosimeter results reports.

13 They'll usually have the LOD value
14 listed. And it's like, I'm pretty sure that's
15 what they list for those dosimeters. So it's
16 just a --

17 MR. STIVER: Okay.

18 MR. GLECKLER: It's an issue. If
19 you guys don't --

20 MR. STIVER: If you can get back
21 to us on what the basis was, you know. I
22 think we could probably put that one to rest

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1 pretty quickly.

50

2 MR. DARNELL: If the Landaer LOD
3 is basis for this, we can put it to bed. Is
4 that what you're saying?

5 MR. STIVER: Yes. If we could get
6 the basis for that. And if we didn't agree
7 that once we hear your explanation as to why.

8 And then we can either make a change or let
9 it go as is. We're getting all kinds of a
10 paper trail and, you know, the historic basis
11 for why things were done the way they were.

12 MR. DARNELL: Brian, can you get
13 that together?

14 MR. GLECKLER: Yes, I believe so.

15 And then I think I've got a collection of
16 stuff on that.

17 MR. STIVER: Okay. All right. In
18 that case we can move on. Okay, Issue 6.
19 This is the whole issue of D&D monitoring.
20 And this is another one --

21 The idea being was, you know,
22 groups and things, the contract employees or

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1 other workers during the D&D period who were⁵¹
2 not adequately monitored and may have had
3 exposure potential by virtue of breaking in
4 the, you know, previously contained sources,
5 such as the contaminated glove box.

6 Or say, got to work and may have
7 accumulated particulates or various forms of
8 organically bound tritium and so forth over
9 time.

10 Were these people adequately
11 protected and monitored? And the same HP that
12 Peter referred to earlier gave us a lot of
13 good information on this.

14 And he indicated that basically
15 all the contract employees were monitored by
16 Pinellas RadSafe, before, during and after the
17 D&D operations. And that the data and
18 electronic records were sent to DOE
19 Albuquerque.

20 And the SDAR has management and
21 they have copies of the released surveys as
22 well. So we would like to follow up with

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1 [identifying information redacted] and see if
2 we can get those confirmatory data, so that we
3 can close this one out.

4 And I think, based on what he told
5 us, it sounds like they had a very robust
6 program in place. So that certainly puts my
7 mind at ease. However, I would sure like to
8 see the results. It looks like they are
9 available.

10 MR. DARNELL: And one thing I'd
11 like to point out, John, Pete Darnell again.
12 One thing I'd like to point out is that Brian
13 and I discussed D&D a little bit Friday.

14 The doses that we do have in house
15 already were reduced drastically from the
16 already low doses that we had during Pinellas
17 Plant operation.

18 And basically what we're doing is
19 continuing the coworker model through D&D.
20 But we'll be glad to go ahead and look for any
21 other records. I think we've already sent to
22 Albuquerque looking for records.

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1 MR. STIVER: Okay. Maybe we could⁵³
2 coordinate with you then. And see if we can
3 get back in touch with [identifying
4 information redacted]. He could let us know
5 if there are additional records out there that
6 we could look at. My sense is that you're
7 entirely correct that the doses are going to
8 be a very small fraction of that coworker
9 dose.

10 MR. DARNELL: Yes.

11 MR. STIVER: But, you know, just
12 kind of confirmatory -- I'm sure that's what
13 would really satisfy us, I think.

14 MR. DARNELL: Okay. Well I'll
15 check on Albuquerque requests and make sure
16 that we have received everything. I doubt the
17 health physicist himself will be able to help
18 us. Because he's not the records custodian

19 MR. STIVER: Yes. If he can at
20 least point us to the right person, you know,
21 give --

22 MR. DARNELL: Yes. He actually

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1 did in our interview. He gave us a contact⁵⁴
2 name at Albuquerque. And I'll get something
3 started on that.

4 MR. STIVER: Okay. That sounds
5 good.

6 MR. DARNELL: And we can get Mauro
7 to double check on those records.

8 MR. STIVER: All right. Thank you
9 very much. Issue 7. This is to review Level
10 1 of TBD-3, which was not available at the
11 time, as of October of last year. I believe
12 it was published or posted a day or two after
13 that meeting.

14 And we did, in fact, review that
15 document. And we found that it answered all
16 of our concerns for findings ten through 12.
17 And, you know, Sub-Issue 1, I believe it was.

18 So we are on board with NIOSH. We think that
19 that issue can be closed out.

20 I'd talk more about it. But I
21 think I'm about to completely lose my voice
22 here. So that's really where we stand at this

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1 point. If anybody else would like to weigh in ⁵⁵
2 on that, or have any objections.

3 I don't see that there really
4 would be. But I guess we can just proceed
5 with the, doing taskings that we come through
6 with today. If you all want -- did you have
7 anything else you wanted to say?

8 CHAIRMAN SCHOFIELD: Not on that
9 one. I mean, I agree. Let's go ahead and
10 close it out.

11 MR. STIVER: Okay.

12 CHAIRMAN SCHOFIELD: And I was
13 just kind of looking at, to go back to Brad's
14 question, roughly how long any of this --
15 Well mostly just confirmation of what we
16 already have, one way or the other,
17 clarification or confirmation.

18 Are we looking at two months,
19 three months down the road? Or, I realize
20 especially with all the holidays coming up we
21 may be pushed back a little farther. Anybody
22 have any thoughts?

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1 MR. KATZ: Well, so this is Ted⁵⁶
2 Let's ask Bob -- I mean, we have two tasks.
3 One, I mean, Jim Neton's going to get back to
4 us with a time frame for his follow up. But
5 Bob Barton, could you let us know, how long
6 will it take you to look at the data for
7 completeness?

8 MR. BARTON: It's difficult to
9 say, Ted, until I can kind of really take a
10 look at what we're dealing with here. I mean,
11 I can get an estimate out in a couple of days.
12 But offhand I can't really throw a number out
13 there without actually seeing what it is we'd
14 be dealing with.

15 MR. KATZ: That's fine, Bob. I
16 just -- so if you will, just as we're going to
17 wait for Jim to let us know a time frame, if
18 you would just, when you figure that out,
19 sorted that out, if you would send to the Work
20 Group your estimate of roughly when.

21 Obviously we don't need a day, or
22 even exactly a week. But roughly when you

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1 think SC&A can have a report out, cleared and⁵⁷
2 back to the Work Group, that would be great.

3 MR. BARTON: That's not a problem,
4 Ted.

5 MR. KATZ: Thank you. So I think
6 we probably cannot schedule the next Work
7 Group meeting until we hear back, and sort of
8 know what time frame we're dealing with.

9 MR. STIVER: Yes. That sounds
10 reasonable to me.

11 MEMBER CLAWSON: John, this is
12 Brad Clawson again. But you're going to run
13 this one -- about the destructive testing of
14 these?

15 MR. STIVER: Yes. Peter and I and
16 Abe are going to talk about this.

17 MEMBER CLAWSON: Okay. The reason
18 being is because when we went through Sandia
19 and stuff, they talked about the same process
20 coming up through from Pinellas.

21 And when we interviewed people at
22 Sandia there was a little bit different

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1 interpretation. I just want to make sure that⁵⁸
2 we get this right as we proceed forward.

3 MR. KATZ: Right. I agree, Brad.

4 And this is Ted again. So just, if we could,
5 once you've had your discussion off line with
6 Pete and others, and you sort of know what the
7 course is forward for that, whether it's put
8 to bed, or whether there's more to do, and
9 what that might be.

10 Again, here, if you could just
11 shoot a note to the whole Work Group to let
12 them know what to expect there, that would be
13 great.

14 MR. STIVER: Okay. Will do.

15 MEMBER CLAWSON: Also too, John,
16 you'll probably find out that this is a
17 classified matter too.

18 MR. STIVER: I know it is.

19 MEMBER CLAWSON: Just for --
20 Okay. I just wanted to make sure that we kept
21 that understood.

22 MR. KATZ: All right. This will

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1 be a -- what ever is noted, shot to the Work⁵⁹
2 Group, will be discreet and appropriate, I'm
3 sure.

4 MR. STIVER: Okay. I guess that's
5 really all I had to talk about here. I think
6 we -- the big issue was really working through
7 the Mound tritides, the paper and it's
8 applicability.

9 CHAIRMAN SCHOFIELD: One think I'd
10 like to throw back out is, I don't remember
11 off hand, and from looking I might have missed
12 it. Is looking for any positive bioassay for
13 the plutonium.

14 MR. DARNELL: We've actually
15 already addressed that with a White Paper.
16 It's been out for a number of years. We can
17 re-send that.

18 CHAIRMAN SCHOFIELD: Yes, if you'd
19 re-send it.

20 MR. DARNELL: There was no
21 positive bioassay.

22 CHAIRMAN SCHOFIELD: Okay. That

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1 was my thinking. But I just wanted to make
2 sure that that clarification is, you know,
3 stated out there.

4 Since you've gotten more documents
5 since the White Paper came out, I just wanted
6 to make sure nothing had changed, nothing new
7 had come up on that.

8 MEMBER CLAWSON: Pete, this is
9 Brad Clawson. But they weren't checking for
10 plutonium, right?

11 MR. DARNELL: Yes, they were.

12 MEMBER CLAWSON: Okay. I just
13 wanted to make sure.

14 MR. GLECKLER: This is Brian
15 Gleckler. Just as a correction. Some of
16 those plutonium bioassay samples were
17 positive. But the White Paper addresses that.
18 Most of the positives were the baselines
19 before they went into the area.

20 MR. STIVER: Right. Brad, this is
21 John. I remember reading that.

22 MR. GLECKLER: Yes. And then a

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1 number of them were also positive for Pu-239,
61
2 and not Pu-238, which these sources were
3 dominated by Pu-238.

4 MR. STIVER: You normally don't
5 see 239 without 238.

6 MR. GLECKLER: Yes. But the White
7 Paper addresses that.

8 MR. DARNELL: I should have been
9 more specific in saying there were no
10 operational positive bioassays.

11 MR. STIVER: If you could send
12 that to me, because I don't know if I still
13 have the old version of it.

14 MR. KATZ: This is Ted. Right.
15 If we could just redistribute that to the Work
16 Group that would be great.

17 MR. DARNELL: Okay.

18 MR. KATZ: Thank you, Pete.

19 MR. DARNELL: Not a problem.

20 MR. STIVER: Okay, Peter I'll
21 probably try to call you tomorrow. Because I
22 don't think I can talk today anymore.

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1 MR. DARNELL: Okay. 62

2 MR. STIVER: All right.

3 MR. DARNELL: I just have to email
4 you with my phone number.

5 CHAIRMAN SCHOFIELD: Anybody else
6 have any concerns that we need to be addressed
7 at this time? If not, I think we are
8 adjourned.

9 MR. STIVER: Okay.

10 MS. HAND: Can I have a chance to
11 speak? This is Donna Hand.

12 CHAIRMAN SCHOFIELD: Go ahead.

13 MS. HAND: Okay. The RTGs that
14 they're talking about, in a 1990 annual report
15 they showed that there was plutonium. They
16 have measured plutonium. And then you talking
17 about the positive bioassays.

18 That was talked about in the very
19 first Work Group meeting. Everything where
20 Glecker kept on saying that, well the
21 background was positive. And then everything
22 from then on was left.

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1 When was that background taken?⁶³

2 Because the RTGs was first put in Building 100
3 in a area around 126. Then when they built on
4 to 400 and making it larger, then it was taken
5 to Building 400. So was that baseline? Or
6 was it when it was in Building 100?

7 You know, the very first report
8 that John Mauro kept on saying is that the
9 integrity of the data. You don't have the
10 information. Everything before 1980 you do
11 not have.

12 I had did a Freedom of Information
13 Act request on the actual data that was used
14 for this dose reconstruction. And the
15 information that I obtained through that
16 Freedom of Information Act is absolutely
17 opposite of what the Site Profile is.

18 And the film badges were shipped
19 out to be read. They weren't read in the
20 beginning, in house. Because they had
21 questions on it fogging. You have two or
22 three memos in the original Site Profile

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1 talking about the badges problem.

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2 So the, and the actual workers
3 that worked with the RTGs, that tested them,
4 inform me that there were two. And then I
5 said, you can't tell me any more.

6 So, and you're using the HP
7 [identifying information redacted], his report
8 for the decommissioning and dismantling report
9 that you have to use to document, does not
10 have any dosimetry information on it, does not
11 have any air monitoring on it, does not have
12 any survey swipes on it.

13 And right now DOE is going through
14 47,000 pages of documentation to make sure
15 it's not classified, to give it to me under
16 the Freedom of Information Act. And I still
17 have not received those.

18 So the information that you've
19 been receiving, and it's been stating, and the
20 redacting, it's hurting these Pinellas Plant
21 workers whenever they're being treated
22 differently from everybody else.

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1 And the original Work Group⁶⁵
2 committee, Peter Darnell admitted that before
3 1982 the average was 500. After 1982 through
4 1993 it was 550 millirems. That was the
5 coworker dose, that was the dose. But yet he
6 gives everybody 100, you know.

7 So you're not using the 95th
8 percentile. And again, at the December
9 meeting I gave Dr. Neton, and also Dr. Mauro a
10 copy of a gentleman's file that worked with
11 the RTGs, that showed where he was monitored.

12 And he did receive doses. But he
13 didn't have a cancer, so you all guys didn't
14 get that data. And that is no fair on the
15 references where I requested, you know, what
16 did you use.

17 In another claimant's file, in her
18 file this health physicist reports, saying
19 that in 1959 there was 500, over 500 bioassays
20 taken. And 149 of them was tritium. This was
21 in her individual file. It was not put into
22 the Pinellas Plant overall Site Profile.

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1 You also have a situation to where⁶⁶
2 we have, what, five metal tritides. And one
3 of them are classified. So how are you going
4 to do that one? Because they had scandium,
5 they had titanium, they had erbium.

6 Erbium went to Dr. Chew for his
7 study. And that came from Pinellas, and he
8 did a study on that one. And then you had the
9 uranium, which was the majority of it, and
10 then the classified one.

11 MR. KATZ: Donna, this is Ted
12 Katz. Can I make a suggestion here? Because
13 you've sort of, you're speaking about just a
14 whole host of different issues, which make it
15 practically impossible for folks to respond to
16 you.

17 I mean, I'd suggest if you want
18 the Work Group to, you know, provide a
19 response, or staff to the Work Group, whether
20 it's at DCAS or SC&A, to provide responses to
21 these, it would be best if you put these
22 things in writing and distribute them for,

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1 before the next Work Group meeting. And
2 people, they could go down a list and actually
3 give you responses if you want it on line. I
4 mean, you know --

5 MS. HAND: I don't --

6 MR. KATZ: But it's very difficult
7 to respond to all these different matters that
8 are disconnected in one go --

9 MS. HAND: Well I disagree about
10 being disconnected. You all talked about the
11 RTGs, you talked about the plutonium. You're
12 taking that dose off. But yet, there was
13 finger badges and wrist badges that had doses
14 on them.

15 So you got to make sure they get
16 the external dose from the RTGs. Because the
17 reports that I saw had dosimetry records
18 showing that there was radiation there, you
19 know. And they've got it. So is that going
20 to go the external, and added on to the
21 external for these people?

22 And the neutron dose you don't

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1 even use it at all to any of the claimants⁶⁸
2 hardly. And you've got, the whole thing is,
3 is that this has been going on since April of
4 2008. That's when the Board was requested.

5 You requested back before, I think
6 in 2011, March of 2011. Darnell was asked to,
7 can you or can you not do the internal dose
8 for Pinellas Plant. And instead of him
9 answering that, he comes back with a whole
10 brand new Site Profile that deleted all the
11 information.

12 He was very much aware of the 1997
13 baseline report which shows 28 radionuclides
14 at the Pinellas Plant. But they're all
15 completely ignored.

16 MR. DARNELL: Ms. Hand, this is
17 Peter Darnell. I know from past experience
18 that we've addressed the 28 nuclide issue with
19 you several times in writing.

20 MS. HAND: No, sir. You've
21 ignored them. In fact, you said -- but that's
22 a different issue, and that's not for you.

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1 This is what I'll write up for the Board. 69

2 Because even in the very first
3 Work Group committee Peter Darnell said, we
4 can't believe anything that the Pinellas Plant
5 workers say because they don't, they make
6 mistakes. Larry Elliott says, oh that was a
7 clean plant. There's nothing there. So you
8 already had a biased opinion in 2009.

9 CHAIRMAN SCHOFIELD: I'm going to
10 throw out something here. I mean, I do have
11 to agree with both SC&A and NIOSH that as far
12 as positive bioassay for plutonium, given the
13 nature of RTGs you're going to see a positive
14 result for 239, you're going to see a positive
15 result for 238. That's just a given, given
16 what an RTG, what they are.

17 MR. DARNELL: Absolutely correct.

18 MEMBER CLAWSON: Donna, this is
19 Brad Clawson from the Board. What Ted told
20 you is absolutely true. Because I'd like to
21 be able to look at each one of these comments
22 that you have --

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1 MS. HAND: Thank you. 70

2 MEMBER CLAWSON: -- and make sure
3 that we have addressed this properly to you.
4 But I'll tell you right now, I'm going back
5 through all this.

6 If you can write it up so that we
7 can follow up on this, especially the Work
8 Group, in a setting where we can have the
9 discussion back and forth, I would appreciate
10 it. Because I would like to make sure that
11 this is done right too.

12 MS. HAND: Thank you. I will do
13 that. Because I'm reviewing all the way from
14 the very day one, the very first agenda where
15 Preston says, okay guys, you can't talk about
16 this anymore.

17 CHAIRMAN SCHOFIELD: Well we might
18 have to have some of these discussions in a
19 classified setting. I mean, that's something
20 that we will have to address.

21 MS. HAND: And that's fine. But
22 the thing is, if it's classified, you know, I

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1 just want to make sure that the claimants,⁷¹
2 that the Pinellas Plant workers get the equal
3 justice that all the other sites have gotten.

4 MR. KATZ: Right. Donna, this is
5 Ted. And so again, I mean, clearly if there's
6 classified things those can't be discussed.
7 But whatever questions you may have, you're
8 not dealing with classified information
9 yourself. And they can be responded to you I
10 some sort of general way, without broaching
11 classified information.

12 So again, if you would provide
13 this in writing. And the further in advance
14 of a meeting that you provide this, your set
15 of questions, the better prepared everybody
16 can be to answer them as part of that Work
17 Group meeting, okay.

18 MS. HAND: Will do. Thank you.

19 MR. DARNELL: Ted, I have one
20 quick question.

21 MR. KATZ: Yes.

22 MR. DARNELL: Could we, NIOSH has

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1 responded to Ms. Hand quite often. Would the ⁷²
2 Board like to see those responses?

3 CHAIRMAN SCHOFIELD: Yes, please.

4 MR. KATZ: Right. I mean, Pete,
5 so I think again, the path forward though, I
6 think once we have Donna's questions in hand,
7 in writing, I think that would be perfectly
8 appropriate, Pete, for you to just submit to
9 the rest of the Work Group those responses
10 that you already have made to some of these
11 issues.

12 Then the Work Group doesn't have
13 to spend a lot of time with that. Although if
14 there's gaps, if there's issues that haven't
15 been addressed, those are the ones that the
16 Work Group can run over in the meeting.

17 MS. HAND: I'd also like to note,
18 and I will also be sending you copies whereof
19 the email that's sent to me, where Peter
20 Darnell said he didn't have to use the Site
21 Profile.

22 So the information in the Site

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1 Profile he didn't have to use, nor does he⁷³
2 have to use the DOE handbook. So the answers
3 to my questions that they answered are just
4 generalized questions. And --

5 MR. KATZ: Donna, what we really
6 want from you is not a whole cart load of
7 different things. But really, if you would
8 just provide the questions, the technical
9 questions, what have you, that you would like
10 answers to.

11 Then, you know, Pete certainly has
12 his records of what responses he's given
13 before, as do others. And that all can be
14 organized in a reasonable way.

15 MS. HAND: And I understand that.
16 But his, but my thing is that his comment,
17 everything about the way he's answered the
18 things, he never signed any of the responses.
19 So he can't, you know, so nobody's taking
20 accountability of those responses.

21 MR. KATZ: But, Donna, I mean --

22 MS. HAND: And listen first,

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1 please, okay. And then when I did the Special⁷⁴
2 Exposure Cohort petition we didn't qualify.
3 Because they're using those responses that
4 they used on the close out interviews.

5 MR. KATZ: Okay, Donna, all that
6 being said. Again, I'm just trying to be
7 clear with you. What we would like from you
8 is just the technical questions you would like
9 answers to.

10 Everyone will pull together what
11 responses have already been provided. And
12 we'll address those that haven't in the
13 meeting.

14 And really, issues of process and
15 what people might have said, and so on, really
16 isn't your main -- we're trying to just settle
17 technical issues so that we can put to bed the
18 TBD review that's being done by the --

19 MS. HAND: Agreed, agreed. I will
20 give you technical issues with questions, and
21 with the facts that I have to make sure that
22 we're dealing with facts, and not, you know,

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1 suspicions.

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2 MR. KATZ: Okay. Thank you.

3 MS. HAND: Thank you.

4 MR. DARNELL: I have one more
5 quick question for the group. I have
6 Schofield, Clawson, Stiver, Zeitoun for
7 distribution for the plutonium White Paper.
8 Is there anybody else?

9 MEMBER POSTON: Yes. John Poston
10 would like to see it. I thought we were going
11 to send it to everybody.

12 MR. DARNELL: I can't hear you.

13 MR. KATZ: Yes. Mr. Poston is
14 also a Member of the Work Group.

15 MR. DARNELL: Poston?

16 MR. KATZ: Yes. And if you would
17 just copy me, Pete, that would be great.
18 Because then if anybody is left out or anyone
19 else needs it, I can send it on again,
20 particularly since you'll be out after
21 tomorrow.

22 MR. DARNELL: I actually don't

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1 have Dr. Poston's email. So I'll have, if one⁷⁶
2 of you will forward it to him.

3 MR. KATZ: I'll take care of that.

4 Thanks, Pete.

5 MR. DARNELL: Okay.

6 CHAIRMAN SCHOFIELD: Just one last
7 thing. This is really off the record and
8 different subject. I was just going to tell
9 Pete, good luck.

10 MR. DARNELL: Thank you. It's
11 been quite a road. And it's going to be
12 another quite a road. So I appreciate that,
13 Phil.

14 MR. STIVER: And I'd like to
15 second that, Peter. Best of luck.

16 MR. DARNELL: Thank you.

17 MR. KATZ: Okay. Then --

18 MEMBER CLAWSON: I was going to
19 say all the best, Pete, but I was on mute.
20 This is Brad. Good luck. I just got done
21 with my game. So best of luck to you.

22 MR. DARNELL: Thanks. Thank you,

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1 Brad. I appreciate it guy. So Abe and John⁷⁷
2 I'll talk to you tomorrow.

3 MR. STIVER: Okay. We'll do that.

4 MR. KATZ: Okay. Thank you
5 everybody. And, Phil, I think we're
6 adjourned.

7 CHAIRMAN SCHOFIELD: I totally
8 agree with that, unless there's any last thing
9 we need to open. If not, we're adjourned.

10 MR. KATZ: Thank you. Take care
11 everybody. Have a good Thanksgiving.

12 CHAIRMAN SCHOFIELD: You too.
13 Thanks a lot.

14 (Whereupon, the meeting in the
15 above-entitled matter was adjourned at 12:14
16 p.m.)

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