

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

UNITED STATES OF AMERICA

1

CENTERS FOR DISEASE CONTROL

+ + + + +

NATIONAL INSTITUTE FOR  
OCCUPATIONAL SAFETY AND HEALTH

+ + + + +

ADVISORY BOARD ON RADIATION  
AND WORKER HEALTH

+ + + + +

91st MEETING

+ + + + +

THURSDAY,  
MAY 2, 2013

+ + + + +

The meeting convened at 11:00  
a.m., Eastern Daylight Time, via  
teleconference, JAMES M. MELIUS, Chairman,  
presiding.

MEMBERS PRESENT:

JAMES M. MELIUS, Chairman  
HENRY A. ANDERSON  
JOSIE M. BEACH  
BRADLEY P. CLAWSON  
MARK GRIFFON  
DAVID KOTELCHUCK  
RICHARD A. LEMEN  
JAMES E. LOCKEY

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

2

MEMBERS PRESENT (Continued):

WANDA I. MUNN  
DAVID B. RICHARDSON  
GENEVIEVE S. ROESSLER  
PHILLIP SCHOFIELD  
LORETTA R. VALERIO  
PAUL L. ZIEMER

THEODORE M. KATZ,  
Designated Federal Official

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

REGISTERED AND/OR PUBLIC COMMENT PARTICIPANTS:

3

ADAMS, NANCY, NIOSH Contractor  
AL-NABULSI, ISAF, DOE  
BARRIE, TERRIE  
FITZGERALD, JOE, SC&A  
HINNEFELD, STU, DCAS  
KOTSCH, JEFF, DOL  
MAKHIJANI, ARJUN, SC&A  
MAURO, JOHN, SC&A  
NETON, JIM, DCAS  
OSTROW, STEVE, SC&A  
RAFKY, MICHAEL, HHS  
RUTHERFORD, LAVON, DCAS  
STIVER, JOHN, SC&A

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

## TABLE OF CONTENTS

| AGENDA ITEM   | PAGE |
|---|------|
| Roll Call - Mr. Katz, DFO   | 4    |
| Welcome - Dr. Melius, Chair   | 5    |
| Recording Absent Members Votes from<br>March Meeting - Mr. Katz, DFO                  | 5    |
| Sequestration - Mr. Hinnefeld, DCAS,<br>Mr. Katz, DFO                                 | 8    |
| Special Exposure Cohort (SEC) Petition<br>Status Update - Mr. Rutherford, DCAS        | 21   |
| Updates from Work Groups and<br>Subcommittees - WG/SC Chairs                          | 24   |
| -Subcommittee on Procedures Review -<br>Wanda I. Munn (Chair)                         | 24   |
| -Pantex Plant Working Group and<br>Fernald Work Group -<br>Bradley P. Clawson (Chair) | 26   |
| -TBD-6000 Work Group -<br>Paul L. Ziemer (Chair)                                      | 28   |
| -Subcommittee on Dose Reconstruction<br>Reviews - David Kotelchuck                    | 29   |
| -Scientific Issues Work Group -<br>David B. Richardson (Chair)                        | 31   |
| -Rocky Flats Plant Work Group -<br>Mark Griffon (Chair)                               | 31   |
| -Brookhaven National Laboratory<br>Work Group - Josie Beach (Chair)                   | 33   |
| -SEC Issues Work Group -<br>James M. Melius (Chair)                                   | 34   |
| -Hanford Work Group -<br>Arjun Makhijani, SC&A and<br>James M. Melius (Chair)         | 36   |
| Board Correspondence - Dr. Melius, Chair  | 38   |
| Plans for the July 2013 Board Meeting -   | 38   |

### NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

All Members

5

**NEAL R. GROSS**  
COURT REPORTERS AND TRANSCRIBERS  
1323 RHODE ISLAND AVE., N.W.  
WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21

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

6

(11:00 a.m.)

MR. KATZ: Welcome, everybody.

This is Advisory Board on Radiation and Worker Health teleconference. And when I joined, we had a goodly number of people. So I am guessing most of my Board Members should be on. So let's get started with roll call.

We are going to just wrap up the letter for a vote we had for BNL. So that's the only site that we're really addressing specifically on the agenda. And there are no conflicts with the Board Members for that. So you can just respond with respect to preference. That's it.

(Roll call.)

MR. KATZ: Very good. The agenda for the meeting is posted on the NIOSH website under the Board section under Meetings for today's date.

Dr. Melius?

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1                   CHAIRMAN MELIUS:    Okay.    Welcome,                   7  
2                   everybody.    And I think we should have a  
3                   reasonably quick meeting, but let's get going.

4                   Ted, do you want to record votes  
5                   from our March meeting?

6                   MR. KATZ:    Yes.    Thank you.

7                   So we received -- in March, the  
8                   Board voted unanimously among the Members  
9                   present to deny adding a Class at BNL from  
10                  1994 to 2007.    And Mr. Griffon, Dr. Lockey,  
11                  and Dr. Poston were absent from that vote.

12                  They have all voted since,  
13                  finishing their voting on April 17th, all in  
14                  concurrence with the decision of the Board.  
15                  So it is unanimous.    And we have a draft  
16                  letter, which we have circulated.

17                  Jim?

18                  CHAIRMAN MELIUS:    Okay.    Do you  
19                  want me to do that now or --

20                  MR. KATZ:    Yes.    I think it is  
21                  good to just read it in the record like we do.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1                   CHAIRMAN MELIUS:     Okay.     I will     8  
2     try to do that quickly.     So it's "Dear Madam  
3     Secretary:     The Advisory Board on Radiation  
4     and Worker Health, the Board, has completed  
5     its evaluation of Special Exposure Cohort, SEC  
6     petition     00113,     concerning     workers     at  
7     Brookhaven National Laboratory in Upton, New  
8     York     under     the     statutory     requirements  
9     established     by     the     Energy     Employees  
10    Occupational Illness Compensation Program Act  
11    of 2000, incorporated into 43 CFR Section  
12    83.13.

13                   "National            Institute            for  
14    Occupational Safety and Health, NIOSH, has  
15    recommended            that            individual            dose  
16    reconstructions are feasible for all employees  
17    of the Department of Energy, its predecessor  
18    agencies,     and     its     contractors     and  
19    subcontractors     who     worked     at     Brookhaven  
20    National Laboratory in Upton, New York from  
21    January 1st, 1994 to December 31st, 2007.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1 "NIOSH found that it has access to 9  
2 adequate exposure monitoring and other  
3 information necessary to do individual dose  
4 reconstructions with sufficient accuracy for  
5 members of this group. Therefore, a Class  
6 covering this group should not be added to the  
7 SEC. The Board concurs with this  
8 determination.

9 "Based on these considerations and  
10 the discussion at the March 12th, 2013 Board  
11 meeting held in Augusta, Georgia, the Board  
12 recommends that this Class not be added to the  
13 SEC.

14 "Enclosed is the documentation  
15 from the Board meeting where this SEC Class  
16 was discussed. The documentation includes the  
17 copies of the petition, the NIOSH review  
18 thereof, and related materials. If any of  
19 these items are unavailable at this time, they  
20 will follow shortly."

21 And that letter had been

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1       circulated to everybody on the Board.       And       10  
2       there are no substantial comments. I think I  
3       heard back from just about everybody on the  
4       Board. So thank you all.

5                       So next we have an update from Stu  
6       and Ted about sequestration.

7                       MR. HINNEFELD:     Yes.     Thank you,  
8       Dr. Melius.

9                       When we were in Augusta, I think I  
10       mentioned during my update that I had expected  
11       to be able to tell you at that time what the  
12       impact of sequestration would be on us because  
13       we are subject to the sequester. But I was  
14       not able to do so because it hadn't been  
15       ultimately determined.

16                      Now that I know, I want to make  
17       sure I share with the Board what this will  
18       mean for our program, for the short term  
19       anyway.

20                      Our sequestration was on the order  
21       of 8 percent, 7.9 percent, reduction in this

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 year's budget authority compared to last year. 11

2 And we learned of this around the March time  
3 frame or that's when we actively ostensibly  
4 start to really understand what was going to  
5 be affected.

6 Now, the ORAU contract represents  
7 the overwhelming majority of the money that  
8 our program receives. The majority of our  
9 money, probably about 70 percent of our money,  
10 goes to the ORAU contract. And so the big  
11 penalty here is going to fall on the ORAU  
12 contract. Some of the other costs are fixed  
13 and really not much you can do about them,  
14 although we are trying to make savings in  
15 other areas and particularly in travel.

16 One outcome of sequestration that  
17 you may have noticed is that travel is being  
18 scrutinized very hard by people above me. And  
19 we're trying very hard to cooperate and also  
20 not request a lot of travel. So the travel  
21 has been restricted, and we believe we can

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 save some money in travel, which would maybe 12  
2 lighten the burden on the contract and the  
3 work the contractor can do, but, to be honest,  
4 the amounts of money are so disparate that the  
5 amount we save in travel probably is only  
6 going to be a Band-Aid, if that.

7 Here is the bottom line, though.  
8 The ORAU contract is timed so that it was  
9 scheduled to end at the end of February. And  
10 a new contract was to be awarded. Well, the  
11 procurement process didn't move apace. And so  
12 a decision had been made to issue a six-month  
13 extension on the ORAU contract, which is in  
14 place.

15 So they're still on the job.  
16 They've got a six-month extension now that  
17 runs through October. And as part of that  
18 negotiation for the extension, they were  
19 provided with a spending rate for the next six  
20 months. It was about 20 percent less than  
21 what they spent in the last 6 months.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1                   So that's the bottom line number. 13

2                   You can figure out what that means yourself.

3                   We have 20 percent less contract support.

4                   The contractor does very much of our work.

5                   So, unfortunately, we are obviously going to

6                   have to feel a slowdown in how we can produce

7                   things. And it will affect probably the

8                   schedules for the -- for many of the Work

9                   Group and Subcommittee items.

10                  We are still, ORAU is still, in

11                  the process of just figuring out exactly what

12                  the schedule will be with this lower amount of

13                  money. And so when we hear something or when

14                  we have an agreement, they are going to give

15                  us what they propose. We'll have to decide

16                  whether we want to change the priorities

17                  around a little bit, but when we have some

18                  sort of an agreement, we'll be probably

19                  sharing with the Work Group Chairmen and

20                  Subcommittee Chairmen what we can envision

21                  might happen.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I think the most likely, most 14  
2 visible places we will see things is in  
3 delivery dates of products for the Work  
4 Groups, for some of the site-specific Work  
5 Groups. But until we actually have gone  
6 through the exercise of figuring out exactly  
7 what ORAU can do with the money available to  
8 them, I don't really have any dates to provide  
9 today.

10 I'll be glad to answer any  
11 questions I can.

12 MR. KATZ: Jim, if it makes sense  
13 before we go to questions, if I just tag team?

14 CHAIRMAN MELIUS: Yes. I think  
15 that would be helpful.

16 MR. KATZ: Then so there's the  
17 impact, in addition to ORAU, the impact on  
18 contracts. And SC&A is on a contract as well.  
19 And they are also having their contract  
20 reduced. Their timing situation with their  
21 contract is also sort of not perfectly sort of

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 married up with the sequester. In fact, their 15  
2 contract is a calendar contract.

3 But fiscal year, they're funded  
4 under a fiscal year situation. So they're  
5 taking, in effect, an eight percent hit for  
6 the -- to their contract for the remainder of  
7 this fiscal year. What happens next year is  
8 very uncertain depending on what Congress does  
9 with their sequester.

10 So that hit. I mean, fortunately,  
11 -- and I've spoken to John Stiver about it --  
12 it is quite manageable, I think. That hit is  
13 less than the -- they're taking less of a hit  
14 than the budget they operated on last year.

15 So John was quite confident that  
16 reallocating personnel in certain ways for  
17 different projects, he could manage this  
18 without the Board feeling any impact in the  
19 pace of delivery, work, and so on.

20 CHAIRMAN MELIUS: So, thanks.

21 Now let's open it up to questions

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 or comments from Board Members. I am not sure 16  
2 if what you are saying will mean there will be  
3 no slowdown or delays at SC&A. I think one  
4 thing we want to be able to do is sort of  
5 match up what the -- ORAU is slowing down  
6 something, then we should also try to  
7 coordinate that with sort of what SC&A thinks  
8 in terms of scheduling reviews and timing and  
9 so forth.

10 If I understand you correctly,  
11 Ted, I don't think that should be an issue.

12 MR. KATZ: Right. I think it will  
13 be very easy to manage. And, again, the  
14 impact on SC&A is actually much less than the  
15 impact on ORAU.

16 CHAIRMAN MELIUS: Yes.

17 MR. KATZ: So I think we will be  
18 in pretty good shape.

19 CHAIRMAN MELIUS: And the other  
20 question for Stu, so how are you trying to  
21 balance this cut at ORAU between individual

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 dose reconstructions and the various kinds of 17  
2 Site Profiles -- or, really, it would probably  
3 be mostly SEC reviews.

4 MR. HINNEFELD: Well, initially  
5 the planning is to slow dose reconstruction  
6 preparation somewhat. And always in our work,  
7 SECs, like new SECs and the Evaluation Report  
8 for new SECs, then come -- are like the  
9 highest priority. And after that, we would  
10 work on SECs discussions, where the Evaluation  
11 Report has been delivered but we're in  
12 discussion and with the Board and SC&A about  
13 resolving some findings on those.

14 So that tends to be the order we  
15 do things in and I expect we would stay at  
16 that level. Now, as to -- I worry that there  
17 will be fewer resources available for the  
18 finding resolution process going forward. And  
19 so where we may have had a projected or  
20 hoped-for schedule for some sites, going  
21 forward, I think some of those schedules are

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 going to be stretched out for delivery of our 18  
2 products.

3 From our standpoint, I think we  
4 are done with Pantex. I don't think there is  
5 going to be any effect on Pantex and its  
6 ability to talk about it at the July Board  
7 meeting.

8 And the other one I am aware of is  
9 Fernald. And much of our contractors' work on  
10 Fernald products has been done. And so we may  
11 still be able to have a fruitful discussion  
12 between now and July on Fernald. Those are  
13 the two I'm most intimately familiar with.

14 Sites where we know of ongoing  
15 efforts and ongoing research I think are  
16 where, chances are, the schedule is going to  
17 stretch out.

18 CHAIRMAN MELIUS: Yes. I would  
19 just offer up I think that you should also  
20 take into account the potential number of  
21 people impacted.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MR. HINNEFELD: Certainly. 19

2 CHAIRMAN MELIUS: Yes. For some  
3 of the larger sites where there are SEC issues  
4 that involve a significant number of years or  
5 something, it would seem to take precedent  
6 over the site where, you know, it may just be  
7 following up on -- you know, try and clarify  
8 for, you know, a smaller site. We're just  
9 trying to clarify for a couple of years. So I  
10 suspect the latter would not require a lot of  
11 resources. So I'm sure it's not as  
12 straightforward as sort of small versus large  
13 numbers. There are other factors involved.

14 MR. HINNEFELD: Right. Right.  
15 And the CDC is not furloughing anyone.

16 CHAIRMAN MELIUS: Yes.

17 MR. HINNEFELD: Staff will be here  
18 but just a much smaller staff than what we  
19 normally have with ORAU.

20 CHAIRMAN MELIUS: Right. Yes.

21 Any other Board Members with

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 questions or comments?

20

2 MEMBER CLAWSON: Jim, this is just  
3 Brad. This is to Stu. You know, I agree with  
4 you on Pantex. The only thing that I was  
5 worried about, Stu, is DCAS has some papers  
6 that were deliverable for me for Fernald.  
7 Now, they really should have already been  
8 here. I just want to make sure that we finish  
9 those up. You know, Fernald is very close to  
10 being completed.

11 MR. HINNEFELD: Yes, Brad. That's  
12 what I was commenting on. Most of the  
13 contractors' work on those has been done and  
14 is either in ADS review or here for us, for  
15 our review.

16 MEMBER CLAWSON: Okay. Yes.

17 MR. HINNEFELD: But they are  
18 pretty far along. And I am hopeful that we  
19 can make the progress we need to make there.

20 MEMBER CLAWSON: Okay. Yes. The  
21 last time I spoke with you and I think with

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Mark Rolfes they were in an internal review 21  
2 within you guys.

3 MR. HINNEFELD: Many of them are.

4 And then some -- like there might be one or  
5 two in ADS review or just cleared ADS review  
6 or something like that.

7 MEMBER CLAWSON: Okay. That's all  
8 I wanted to make sure. Thank you.

9 MR. HINNEFELD: Yes. For the most  
10 part, I think we'll make that.

11 MEMBER CLAWSON: Okay.

12 MR. HINNEFELD: We'll see as we go  
13 forward and how things turn out and how the  
14 discussions go once we have the products out  
15 there.

16 CHAIRMAN MELIUS: Again, when do  
17 you think you will have the draft plan from  
18 ORAU?

19 MR. HINNEFELD: I believe we will  
20 have ORAU's draft plan meeting the revision to  
21 the dates that we have been working toward up

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 to now. We believe we will have that the 22  
2 first part of next week.

3 CHAIRMAN MELIUS: Okay.

4 MR. HINNEFELD: And it may involve  
5 some discussion back and forth, for instance,  
6 if they stretched out things and one thing we  
7 thought maybe that one should be pulled  
8 forward and something else stretched out.

9 CHAIRMAN MELIUS: Okay. And then  
10 if you can initiate some discussions, email or  
11 phone, with some of the Work Group or  
12 Subcommittee Chairs, I think that would be  
13 helpful and we can sort of figure out what our  
14 priorities are and so forth.

15 MEMBER CLAWSON: Hey, Jim, this is  
16 Brad. I was wondering what this is going to  
17 do on Savannah River. You know, we have been  
18 trying to get this for quite a while. And  
19 this doesn't fall into this, but it's kind of  
20 other things.

21 CHAIRMAN MELIUS: Well, I think it

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 could affect that, but let's -- I think those 23  
2 conversations are a lot easier once we  
3 understand what ORAU believes how it --

4 MEMBER CLAWSON: Yes. I  
5 understand.

6 CHAIRMAN MELIUS: -- their plans.

7 And then we can sort of figure out what to  
8 do. I think that is a -- that was one of the  
9 sites I was thinking of when I think of a site  
10 where there could be a large impact in terms  
11 of the numbers of people involved. And I  
12 think that also sort of impacts the number of  
13 potentially, again, hypothetically the group  
14 for an SEC also reduces the dose  
15 reconstructions, individual dose  
16 reconstructions. So let's see what their plan  
17 is, and then we can work from there.

18 MEMBER CLAWSON: Yes. I  
19 understand. Thank you.

20 CHAIRMAN MELIUS: Yes. Thank you.

21 Anybody else?

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 (No response.)

24

2 CHAIRMAN MELIUS: If not, thank  
3 you, Stu and Ted. And we'll just have to work  
4 through it.

5 MR. HINNEFELD: Right.

6 CHAIRMAN MELIUS: LaVon? LaVon,  
7 are you there?

8 MR. RUTHERFORD: Yes. I got the  
9 mute off this time.

10 CHAIRMAN MELIUS: Okay.

11 MR. RUTHERFORD: Okay. I have a  
12 pretty short update again, too. So we did  
13 receive two new petitions in March. We have a  
14 petition for the Kansas City plant for the  
15 period of January 1, 1968 through December 31  
16 of 2010 and a petition for K-25 for the period  
17 of February 1, 1992, which is the -- basically  
18 at the end of the statutory SEC, and through  
19 December 31, 1997. Both of those petitions  
20 are in the qualification phase. And so I am  
21 not sure if they are going to qualify at this

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 time, but we should know soon on both of 25  
2 those.

3 We are moving forward with an  
4 83.14 for Sandia Livermore. However, I have  
5 looked at the schedule. And even with the  
6 current schedule, I do not believe we will be  
7 able to get that complete before the July  
8 Advisory Board Meeting. So that will be  
9 pushed out to the next meeting after that.

10 We are still looking for claims to  
11 move forward, 83.14 petitions for the early  
12 years at Sandia, and to modify existing Class  
13 definitions for General Atomics and Dayton  
14 project. So, again, when we get a claim that  
15 fits into one of those, we will move those  
16 83.14s forward.

17 So we will not be presenting any  
18 new SEC petitions at the July Advisory Board  
19 meeting. I know there are some petition  
20 evaluations with the Board that Work Groups  
21 may bring to the Board in July for a vote. I

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 know we have talked about Pantex and others, 26  
2 but I will let the Work Group Chairs discuss  
3 those.

4 Other than that, that is all I  
5 have got for the SECs.

6 CHAIRMAN MELIUS: Okay.

7 MEMBER LEMEN: This is Dick Lemen.  
8 I've finally joined you.

9 MR. KATZ: Welcome, Dick. Thank  
10 you.

11 MEMBER LEMEN: Yes.

12 CHAIRMAN MELIUS: Any questions  
13 for LaVon?

14 (No response.)

15 CHAIRMAN MELIUS: Okay. Updates  
16 from Work Groups and Subcommittees? Any  
17 volunteers?

18 MEMBER MUNN: Sure. This is  
19 Wanda. I'll talk to you about Procedures a  
20 little bit.

21 We met in live meeting format on

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1 April 25th with a full day's agenda. We had 27  
2 discussions that included OTIB-20, the  
3 coworker dosimeter use for external dose  
4 reconstructions.

5 We had OTIB-54, activation product  
6 assessments for beta and gamma.

7 We looked at PROC-44, Special  
8 Exposure Cohort, and their reports on OTIB-55,  
9 conversion of the NCRP 38 neutron quality,  
10 from ICRP, publication 60 using weighting  
11 factors for ICRP. And we looked at OTIB-37,  
12 internal dosimetry coworker data at Paducah.

13 We have about half of our -- at  
14 least half of our agenda and time now is taken  
15 up with the spread of PERs. We have better  
16 than 12 active PERs on our plate right now.  
17 They include a couple from Hanford, the K-25  
18 TBD, and the TIB, the construction trade  
19 workers PER, and we have Blockson, Y-12 TBD,  
20 SRS TBD. We still have Huntington, Ames,  
21 Hooker. So, as usual, there is enough going

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

1 on in Procedures to keep us off the street. 28

2 We are currently circulating  
3 potential risks of completed procedure reviews  
4 and with the expectation that we will have an  
5 opportunity to make some decisions in the next  
6 couple of weeks as to what presentations would  
7 be the best ones to be bringing forward to the  
8 full Board when we meet in July.

9 And our current thinking with  
10 respect to the next meeting is a possibility  
11 of coordinating it with that July meeting so  
12 that we may meet in Idaho Falls. A part of  
13 that depends upon how the agenda for Idaho  
14 Falls works and what those dates are going to  
15 be ultimately decided upon.

16 So that's our Procedures  
17 activities.

18 CHAIRMAN MELIUS: Okay. Any  
19 questions for Wanda?

20 (No response.)

21 CHAIRMAN MELIUS: Anybody else

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 want to volunteer?

29

2 MEMBER CLAWSON: Jim, this is  
3 Brad. I would like to go with Pantex and  
4 Fernald.

5 As many of you know, we went down  
6 to Pantex about two weeks ago. I would like  
7 to tell Stu I appreciate him and his ORAU  
8 counterpart coming down.

9 I think we're coming to an end on  
10 Pantex. It should be at this Board meeting.  
11 So what I wanted to put out to the Board is  
12 you are going to be getting some paperwork  
13 right there just before the meeting. If you  
14 could read it for Pantex, I think it will help  
15 the meeting go a little bit. But we are  
16 coming to the end on it. And we should be  
17 able to come to closure on it in July.

18 Fernald and Pantex, we have both  
19 got a meeting on June 17th and 18th to be able  
20 to discuss some of the issues. As Stu said  
21 earlier, we have got several papers coming

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

1 from DCAS. And the ones from SC&A should have 30  
2 already been delivered. I believe they were.

3 And we're getting very, very close on it,  
4 too.

5 So hopefully we will be able to  
6 bring these before the Board. But if there do  
7 arise some questions before the Board meeting,  
8 I hope that you will contact us or be able to  
9 discuss it there at the Board meeting.

10 Thank you.

11 CHAIRMAN MELIUS: Thank you, Brad.

12 Any questions for Brad?

13 (No response.)

14 CHAIRMAN MELIUS: If not, anybody  
15 else?

16 MEMBER ZIEMER: Jim, this is Paul  
17 Ziemer. I can give a brief report on  
18 TBD-6000.

19 CHAIRMAN MELIUS: Okay.

20 MEMBER ZIEMER: The Work Group met  
21 by teleconference basically all day on April

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1 26th. We discussed General Steel Industries, 31  
2 Baker Brothers, Joslyn Manufacturing, and  
3 Simonds Saw and Steel. Most of our time was  
4 devoted to General Steel Industries.

5 We are working on the final form  
6 for the model for dose reconstruction and  
7 still have some additional work to do. So we  
8 have scheduled another meeting for June 20th.

9 And also there is a technical call scheduled  
10 between NIOSH and SC&A prior to that so that  
11 we can reach a point where we can resolve the  
12 final dose model to address the findings in  
13 the matrix and try to close that out so that  
14 we get a final revision of Appendix BB for  
15 General Steel Industries.

16 For Baker Brothers, we will be  
17 bringing a recommendation for the residual  
18 period to the Board at the next meeting.

19 Joslyn Manufacturing is not yet  
20 completed in terms of NIOSH responses to the  
21 SC&A review. So that is still in progress.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1                   For Simonds Steel and Saw, we are 32  
2 still working on resolving the matrix issue  
3 there.

4                   So that completes my report.

5                   CHAIRMAN MELIUS:       Okay.       Dose  
6 Reconstruction?

7                   MEMBER KOTELCHUCK:    Mark, do you  
8 want to say anything or should I just give the  
9 report?

10                  MEMBER GRIFFON:    You can go ahead  
11 and give a report.

12                  MEMBER KOTELCHUCK:    Okay.    We met  
13 on March 25th.    We went over 5 blind dose  
14 reconstructions, and 18 more are in progress.

15                  Things seem to be moving along reasonably  
16 well.    And we went through case reviews for  
17 sets 8 and 9.    There are a few outstanding  
18 issues, which we expect to complete at our  
19 meeting on May 21st.

20                  And then we started on, I believe  
21 on, the 10th to the 13th sets with the

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

1 Savannah River site. And I assume we will go 33  
2 further ahead with that and then possibly get  
3 to the Rocky Flats and Los Alamos plants in  
4 those sets, 10th to the 13th.

5 So we are moving along.

6 CHAIRMAN MELIUS: Good.

7 MEMBER KOTELCHUCK: Okay.

8 CHAIRMAN MELIUS: Any questions  
9 for Dave or Mark?

10 (No response.)

11 CHAIRMAN MELIUS: Anybody else  
12 want to volunteer?

13 MR. STIVER: This is John Stiver.  
14 I just got on. I was having some  
15 connectivity issues earlier.

16 Yes, we are close to findings, but  
17 I think we were hoping to get closer. We are  
18 hoping to flesh those out at an upcoming  
19 meeting. Basically we are working on the  
20 sites, which are, among them, Fernald. And so  
21 I think there are another 14 or 15 findings

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 there as well.

34

2 CHAIRMAN MELIUS: Okay. Any other  
3 Work Group or Subcommittee Chairs want to  
4 report?

5 MEMBER RICHARDSON: This is David  
6 Richardson. Regarding the Scientific Issues  
7 Subcommittee, there is nothing to report

8 CHAIRMAN MELIUS: Okay. Anybody  
9 else?

10 MEMBER GRIFFON: Jim, this is  
11 Mark.

12 CHAIRMAN MELIUS: Hi, Mark.

13 MEMBER GRIFFON: Just on Rocky  
14 Flats, I can give an update on it only because  
15 LaVon gave me an update in a recent email  
16 here. But I think the summary is that NIOSH  
17 and ORAU had several White Papers in various  
18 stages of completion regarding tritium, the  
19 SBI investigation slash falsification of data,  
20 thorium and neptunium. And I will be  
21 coordinating with them with NIOSH to schedule,

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 you know. As soon as these go through their 35  
2 final review process, I think we will probably  
3 be in a position where we can have a Work  
4 Group meeting for Rocky Flats.

5 CHAIRMAN MELIUS: And do you think  
6 that will be before the July meeting, Mark, or  
7 --

8 MEMBER GRIFFON: I don't know.  
9 LaVon, you have a better -- is LaVon on or --

10 MR. RUTHERFORD: Yes, I'm on.  
11 Based on our current schedule, I definitely  
12 say yes, it will be ready for like a June Work  
13 Group meeting. I think right now a number of  
14 these reports should be out in the May time  
15 period, but I haven't seen ORAU's updated  
16 schedule, as Stu had mentioned.

17 MEMBER GRIFFON: Okay.

18 CHAIRMAN MELIUS: Okay.

19 MEMBER GRIFFON: So possibly, yes.  
20 Yes.

21 CHAIRMAN MELIUS: Again, that SEC

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 involves a significant number of people. So 36  
2 we would like to keep that process moving  
3 along to the extent possible, Stu and LaVon.

4 MR. HINNEFELD: Sure thing. We'll  
5 do what we can.

6 CHAIRMAN MELIUS: Anyone else?

7 MEMBER BEACH: Yes. Hi, Jim.  
8 This is Josie.

9 CHAIRMAN MELIUS: Hi, Josie.

10 MEMBER BEACH: I just have a real  
11 quick update for Brookhaven. We had 13 Site  
12 Profile issues. NIOSH responded to the last  
13 two that we needed responses from. And we  
14 have the SEC issues. Basically we just need a  
15 quick call of the Work Group to clear up and  
16 close all of the issues that were satisfied at  
17 the last Board meeting and then just take a  
18 look at the rest of those TBD issues.

19 And I think, you know, a quick  
20 one-hour call will tie it all up for us. So I  
21 will be working with Ted to schedule something

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 like that in the near future.

37

2 CHAIRMAN MELIUS: Good. Thank  
3 you.

4 I actually have a couple of  
5 updates. The SEC Evaluation Work Group has  
6 been dealing with a sufficient accuracy issue.

7 And, actually, I have more of a question for  
8 LaVon or Stu. At our last meeting of the Work  
9 Group, the next step was we were waiting for a  
10 report from or sort of a White Paper from  
11 NIOSH on sufficient accuracy. And I don't  
12 have an idea where that is.

13 MR. RUTHERFORD: I apologize. I  
14 was going to send you an update, Dr. Melius.  
15 That is my fault. Actually, it was an outline  
16 that we were pulling together.

17 CHAIRMAN MELIUS: Right.

18 MR. RUTHERFORD: And we have a  
19 draft outline that is being circulated  
20 internally for comment. And so we are moving  
21 forward with that.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1 I did just recently got comments 38  
2 from John Mauro that some of the technical  
3 findings from Procedure-44 may actually fit  
4 into this sufficient accuracy discussion. So  
5 I am going to take a look at that as well and  
6 see if it fits into the outline. But I don't  
7 see any problem with getting that outline to  
8 the Work Group within the next couple of  
9 weeks.

10 CHAIRMAN MELIUS: Okay. Great.  
11 And then I think we will do a Work Group  
12 conference call to discuss that and then have  
13 further discussion at the Board meeting in  
14 July. So good.

15 The other Work Group Chair is the  
16 Hanford Work Group. Arjun, do you want to  
17 give an update on the progress there? And  
18 then I have another item as part of that. Are  
19 you still on, Arjun?

20 DR. MAKHIJANI: Yes, I am on.

21 CHAIRMAN MELIUS: Okay. Good.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. MAKHIJANI: We sent out a 39  
2 memorandum updating the key SEC issues. This  
3 was following the site visit that happened in  
4 the middle of May. And DOE had released the  
5 notes from that site visit right away during  
6 the visit to allow us to incorporate that into  
7 the report and also a fair amount of other  
8 research.

9 So that went out last week, I  
10 think, for the Work Group. And I believe you  
11 received it, Dr. Melius. And other Members  
12 should also have received it.

13 So basically Joe had discussed  
14 with Sam Glover, you know, informally some  
15 follow-up items. Some of them are noted in  
16 the memorandum. And basically it's for the  
17 Work Group now to give us further  
18 instructions. Maybe Joe or Sam Glover might  
19 want to add something to this.

20 MR. FITZGERALD: Yes. I don't  
21 know -- this is Joe Fitzgerald. I don't know

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 if Sam is on the line or not, but both he and 40  
2 I had data capture requests going back to  
3 Hanford to pick up on a few items on both  
4 sides stemming from the visit further research  
5 that would help answer some of the issues.  
6 But we did get quite a bit on the on-site.  
7 This is to complement that. So that is in the  
8 works right now.

9 CHAIRMAN MELIUS: Okay. And the  
10 other Hanford update is Wanda kindly referred  
11 some PER evaluations to the Hanford Work  
12 Group.

13 MEMBER MUNN: We try to be as  
14 considerate as possible.

15 CHAIRMAN MELIUS: Thank you. I  
16 should have actually sent you a thank you note  
17 or something.

18 But, anyway, so we will be  
19 scheduling a Hanford Work Group meeting  
20 sometime in the next few, several weeks,  
21 certainly before the July meeting, to discuss

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 some of these issues and the PERs. I think we 41  
2 can do it by telephone, which will ease the  
3 scheduling. But we will go forward on that,  
4 move forward on that.

5 Any other Work Group Chairs want  
6 to report?

7 (No response.)

8 Okay. Moving on, the next item,  
9 "Board Correspondence," is really taken care  
10 of already, was just the Brookhaven letter.

11 And then the final item is the  
12 July meeting. I think, as you can see from  
13 our discussions, there is at this point a fair  
14 amount of uncertainty about exactly what will  
15 be on the agenda for July, what will be  
16 completed, and how long it will take to  
17 address some of these issues.

18 I believe we should all plan on at  
19 least a -- probably should plan on I think a  
20 two-day meeting is fair, maybe a day and a  
21 half. It could end up being a long two days.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1       But I think it is more likely to be a 42  
2 reasonable day and a half or two-day meeting  
3 in July. And then we'll I think then figure  
4 out whether we try to do any Work Group or  
5 Subcommittee meetings in conjunction with  
6 that.

7               I think let's see where we stand  
8 with some of these other items and I think we  
9 -- and also where we are with this ORAU, the  
10 ORAU work plan, and how that might affect some  
11 of our ability to address some of the sites,  
12 particularly ones where there is uncertainty  
13 about will we be able or ready with  
14 recommendations or updates on those.

15               So if we can let everybody know  
16 sometime in the -- say, give us about three  
17 weeks or so. And we'll pin it down more in  
18 terms of how long it will be and how we will  
19 manage it. But I think, for sure, it will be  
20 at least a two-day meeting.

21               Does that fit with your sense, Stu

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 and Ted?

43

2 MR. KATZ: Yes. I think that is  
3 exactly right.

4 CHAIRMAN MELIUS: Yes.

5 MR. HINNEFELD: Yes. It fits with  
6 my expectation as well.

7 CHAIRMAN MELIUS: Okay.

8 MEMBER LOCKEY: Jim?

9 CHAIRMAN MELIUS: Yes?

10 MEMBER LOCKEY: Jim Lockey. Would  
11 that mean scheduling flights out the second  
12 day in the evening or that following day?

13 CHAIRMAN MELIUS: That I don't  
14 think we can say now. We will try to pin that  
15 down within the next -- say, by within three  
16 weeks.

17 MEMBER LOCKEY: That would be  
18 great. Thanks.

19 CHAIRMAN MELIUS: Yes.

20 MEMBER KOTELCHUCK: Dave  
21 Kotelchuck. But which of the days -- we have

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Tuesday through Thursday set aside. Is it 44  
2 that we would do Tuesday and Wednesday and  
3 then possibly either leave Wednesday night or  
4 Thursday morning or do we want to do  
5 Wednesday-Thursday and drop Tuesday?

6 CHAIRMAN MELIUS: I think the  
7 prior plan is to do Tuesday and Wednesday.

8 MEMBER KOTELCHUCK: Okay. Good.

9 CHAIRMAN MELIUS: Yes. And,  
10 again, plan within three weeks, we will let  
11 you know about -- we should have a much better  
12 idea of our timing and so forth so people can  
13 plan their travel.

14 Any other comments or questions  
15 about the next Board meeting?

16 (No response.)

17 CHAIRMAN MELIUS: If not, I think  
18 we can adjourn.

19 MEMBER MUNN: All right. Thank  
20 you, all.

21 CHAIRMAN MELIUS: Thank everybody.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

This transcript of the Advisory Board on Radiation and Worker Health, Teleconference Board Meeting, 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 Advisory Board for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17

(Whereupon, the foregoing matter 45  
was concluded at 11:43 a.m.)