

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

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
CENTERS FOR DISEASE CONTROL  
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH 1

+ + + + +

ADVISORY BOARD ON RADIATION AND  
WORKER HEALTH

+ + + + +

ROCKY FLATS WORKING GROUP

+ + + + +

WEDNESDAY  
FEBRUARY 20, 2013

+ + + + +

The Work Group convened via teleconference at 10:00 a.m., Mark Griffon, Chairman, presiding.

PRESENT:

MARK GRIFFON, Chairman  
DAVE KOTELCHUCK, Member  
WANDA I. MUNN, Member

ALSO PRESENT:

TED KATZ, Designated Federal Official  
JOE FITZGERALD, SC&A  
LARA HUGHES, DCAS  
JENNY LIN, HHS  
ARJUN MAKHIJANI, SC&A  
JAMES NETON, DCAS  
LAVON RUTHERFORD, DCAS  
DAN STEMPFLEY, ORAU  
JOHN STIVER, SC&A

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

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

PAGE<sup>2</sup>

Welcome and Roll Call/Introductions	3
Work Group Discussion	
Summary of October onsite visit at Denver Records Center	5
Status of NIOSH review of documents at LANL	14
Status of ongoing NIOSH review of tritium and thorium issues	19
Status of ongoing SC&A review of Np-237 issues	23
Petitioner comments	31
Next Steps	33
Adjourn	34

**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, Rocky Flats 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 Rocky Flats Work Group 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  
22

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

3  
(9:59 a.m.)

MR. KATZ: Okay. Good morning, everyone. This is the Advisory Board on Radiation and Worker Health, Rocky Flats Work Group. We're about to get started.

First, have a roll call, beginning with Board Members. And we're speaking about Rocky Flats, so please speak to conflict of interest as well. Starting with the Chair, we have Mark.

(Roll Call.)

MR. KATZ: There is an agenda for this meeting, but it is not yet posted. But it's just in general, it's just an update. Mark will tell you more about it. It's an update of where activities stand right now. And there are no other documents posted for this meeting.

So please, everyone who's on the line who's not speaking, mute your phones at this point. Press \*6 to mute your phones if

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

1 you don't have a mute button. And then  
2 pressing \*6 again will take you off of mute. 4

3 Thank you. And, Mark, it's your meeting.

4 CHAIRMAN GRIFFON: Thank you, Ted.

5 Yes, and I apologize. I was very late in  
6 getting an agenda together. But it really,  
7 really is just an update meeting. And part of  
8 the reason we moved this to a phone call was  
9 that things are still in progress.

10 So it wasn't really -- we didn't  
11 think it'd be fruitful to have a meeting in  
12 Cincinnati. But it is at least worthwhile in  
13 updating everyone on some activities that have  
14 been going on.

15 And basically the meeting is a  
16 summary of the October on-site visit to the  
17 Denver Records Center, establishing NIOSH's  
18 review of the documents located at LANL, the  
19 status of ongoing NIOSH review of tritium and  
20 thorium, SC&A's review of neptunium issues.  
21 And then we'll have a chance for comments.

22 And we'll mention, you know, our

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 path forward, next steps. So with that, I'll  
2 start with the summary of the on-site visit.  
3 And I don't know if LaVon or Joe, or who wants  
4 to start this.

5 MR. RUTHERFORD: Well, Mark, I can  
6 start it. That's fine. And then Joe can jump  
7 in, however you want to do it then.

8 CHAIRMAN GRIFFON: Fine, that's  
9 fine.

10 MR. RUTHERFORD: That works for  
11 me. I'll do a little, kind of get everybody  
12 back to, up to speed. We presented the  
13 Evaluation Report at the September Advisory  
14 Board Meeting in Denver.

15 Again, the Evaluation Report  
16 concluded dose reconstruction was feasible.  
17 So no SEC class was recommended. The Board  
18 turned the petition over to the Work Group.  
19 And the contractor, the Board contractor,  
20 SC&A, conducted additional research before  
21 providing a recommendation on the petition.

22 Also, during the Advisory Board

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 meeting, a number of former employees spoke  
2 about potential exposures to tritium, other  
3 radionuclides, and prompted additional actions  
4 by NIOSH, the Work Group, and the Board's  
5 technical contractor.

6 NIOSH, we conducted a classified  
7 data capture at Los Alamos in November.  
8 Documents were sent from Rocky to LANL.  
9 During the decommissioning of the Rocky Flats  
10 plant, the search focused on documents that  
11 supported the potential for tritium exposure  
12 during the 1960s and early 1970s, prior to the  
13 1973 incident.

14 Additionally, the search included  
15 documents associated with neptunium and  
16 thorium activities. The status of that data  
17 capture is that documents are still being  
18 reviewed by DOE to release to Germantown for  
19 further NIOSH and Advisory Board review.

20 Approximately one third of the  
21 documents have been released. And the rest  
22 are still being reviewed. And I know that Joe

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 got a chance to get over and look at the one  
2 third, or the documents that have been  
3 released to Germantown. And he has gotten  
4 over, and at least got a glance at those.

5 And then, as Mark may have  
6 mentioned, I'm not sure, in November, a number  
7 of us, including Mark, Joe Fitzgerald, myself,  
8 and a couple of ORAU team members, we  
9 conducted classified interviews with former  
10 employees at the Denver Federal Records  
11 Center.

12 The interviews were set up to  
13 allow production workers, managers, health and  
14 safety personnel, other employees, to speak  
15 freely, without the concern of saying  
16 something that should not be said in a public  
17 forum. Our focus again was to identify  
18 potential for tritium exposure during the  
19 '60s, 1960s and early '70s, prior to the 1973  
20 incident.

21 Additionally, interviewees were  
22 asked questions concerning neptunium and

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 certain thorium operations known as thorium  
2 strikes. The interviews were, we completed  
3 those interviews.

4 The interviews were typed up, and  
5 we basically consolidated each interview from  
6 each interviewer's perspective into one  
7 document, and sent them to DOE for review.  
8 They released those.

9 However, we could not release  
10 those out to the Work Group and the rest until  
11 they had been reviewed by each of the  
12 interviewees to ensure that what was written  
13 accurately reflected what was said.

14 And then from those classified  
15 interviews, I don't want to say too much about  
16 what we learned from the classified interviews  
17 because, again, they have not been approved,  
18 basically, by the interviewees, as that was  
19 what they said.

20 However, I think it's safe to say  
21 that we did get a better understanding of  
22 potential tritium exposure scenarios

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 associated with production and shipping and  
2 receiving. Specific information given by an  
3 individual of a production scenario where  
4 tritium could be released, as well as specific  
5 information about actions taken post-1973  
6 incident, where we had indication of shipping  
7 containers being contaminated with tritium.

8 So we did get additional  
9 information from those interviews. Again,  
10 those will be, we hope to have those approved  
11 by the interviewees and released here very  
12 soon. Additionally, to clarify, or also to --

13 CHAIRMAN GRIFFON: LaVon.

14 MR. RUTHERFORD: Yes, go ahead.

15 CHAIRMAN GRIFFON: This is Mark.  
16 I just wondered, one question on your write-  
17 ups of the interviews. These were kind of,  
18 you know, jointly conducted interviews with  
19 SC&A, you know, with Joe.

20 I was in the room but, you know,  
21 at least SC&A and NIOSH were doing the  
22 questioning. Do you incorporate, or did 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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 review these in any way? Or are they going to  
10

2 do it separate? I mean, I --

3 MR. RUTHERFORD: Actually, what  
4 Joe did --

5 CHAIRMAN GRIFFON: I would like to  
6 have a consistent narrative of what, you know,  
7 what the --

8 MR. RUTHERFORD: Yes, I totally  
9 agree with what you're saying, Mark. And in  
10 fact, I can forward on to you guys what we  
11 have right now.

12 But what we did was, we did  
13 incorporate Joe's. Joe sent his consolidated  
14 notes to us from each interview, and we  
15 incorporated those into our consolidated  
16 notes, which everything was pretty consistent

17 And in fact, the, you know, there  
18 was nothing from the finalized document that  
19 was inconsistent with what Joe wrote. But  
20 I'll forward this --

21 CHAIRMAN GRIFFON: Very good.

22 That's good. That's good. Okay.

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1                   MR. RUTHERFORD:    Yes, I'll forward  
2                   those on to you guys.    I just didn't want to  
3                   release them totally until actually we, each  
4                   interviewee had had a chance to review and  
5                   make sure that what was said was correct.

6                   CHAIRMAN GRIFFON:    I agree.

7                   MR. RUTHERFORD:    But certainly you  
8                   two, since you are involved in them, there's  
9                   no problem with getting them to you to take a  
10                  look at.

11                  CHAIRMAN GRIFFON:    Okay.

12                  MR. RUTHERFORD:    Okay.    Any --

13                  CHAIRMAN    GRIFFON:            Sorry    to  
14                  interrupt.    I just thought I'd ask.

15                  MR. RUTHERFORD:    No, no, that's  
16                  good.

17                  MEMBER KOTELCHUCK:    Question from  
18                  Dave Kotelchuck.    When you say you're going to  
19                  release the documents.    I'm on the committee,  
20                  but I'm not, but I don't have security  
21                  clearance.    I'm the Member of the committee, I  
22                  think, without security clearance.

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1                   And I wondered, when you say you  
2                   would release them, to whom would they be  
3                   released? Would they be released to me as a  
4                   committee Member? Would they be released to  
5                   the public? I'm not sure the nature of what a  
6                   release would be in a classified interview.

7                   MR. RUTHERFORD:       Yes, actually  
8                   thanks, Dave. The classified interviews have  
9                   been reviewed by DOE and, you know, any  
10                  information that would have been considered  
11                  classified has been redacted from those  
12                  interviews, and so they can be released to the  
13                  Work Group.

14                  In addition to the classified  
15                  release, in order to release them to the  
16                  public, we will have to have a PII and  
17                  redaction done as well.

18                  MEMBER KOTELCHUCK:   Okay. Thank  
19                  you.

20                  MR. RUTHERFORD:   But again, I will  
21                  get them to Mark and Joe as quickly as we can.  
22                  Because you guys were involved in those

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 interviews ahead of time.

13

2 CHAIRMAN GRIFFON: And ultimately,  
3 you will do the PII review, and have them  
4 released to the petitioners, and everyone can  
5 have that?

6 MR. RUTHERFORD: That's correct.  
7 And we'll get that done, like I said, as soon  
8 as we get, you know, get approval from the  
9 interviewees that, yes, we've captured  
10 everything appropriately.

11 CHAIRMAN GRIFFON: Okay. Very  
12 good.

13 MR. RUTHERFORD: Okay. So, again,  
14 you know, we did get some information. I  
15 didn't want to go into too much detail on that  
16 from those interviews. But I did want to  
17 point out the specific production scenario we  
18 learned, or we got information on, and the  
19 potential for contamination from shipping  
20 receiving containers, from shipping  
21 containers.

22 And that has driven a lot of our

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 extra activities. We also had indication of a  
2 potential bubbler that was in the area during  
3 the '60s time period, prior to the '73  
4 incident.

5 So the classified interviews  
6 provided us information that allowed us to  
7 actually do a more specific search for  
8 additional information at LANL and the Denver  
9 Records Center. The Denver -- we went back,  
10 we sent specific search terms to the Denver  
11 Records Center.

12 And they followed up with a number  
13 of documents, identified a list of documents.

14 From that we actually had, the ORAU team was  
15 out last week or the week before. I can't  
16 remember. And reviewing those documents,  
17 actually it's been two weeks ago. Reviewing  
18 those documents, identify documents that they  
19 wanted to capture.

20 The Denver Federal Records Center  
21 is working to release those documents now,  
22 that we identified. We also did, we also want

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 to do another focused search at LANL. And I  
2 say want to do because we did identify search  
3 terms to them and provided them information.

4 However, as you know, we're still  
5 waiting to get the documents from the November  
6 data capture that we completed. We have been  
7 waiting to get the rest of those documents  
8 released. So release of that November data  
9 capture is our number one priority right now.

10 CHAIRMAN GRIFFON: LaVon.

11 MR. RUTHERFORD: Yes.

12 CHAIRMAN GRIFFON: I think you  
13 said that earlier. Is that the one you said  
14 approximately one third of the documents have  
15 been released to Germantown?

16 MR. RUTHERFORD: That's correct.

17 CHAIRMAN GRIFFON: Okay. And  
18 then, so you're -- okay.

19 MR. RUTHERFORD: Yes, yes. So,  
20 you know, once they've completed that task,  
21 and they can do the specific data search that  
22 we're looking for, we may or may not find

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

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

1 anything of value there because we did look at  
2 a large portion of the Rocky Flats documents  
3 at LANL.

4 So we may be able to just look at  
5 the document names and such which they provide  
6 based on our search, and come to the  
7 conclusion that we're not going to get what we  
8 need there. So we will get that and make that  
9 determination.

10 The classified interviews also  
11 provided us information about where the  
12 tritium analysis would have been conducted,  
13 which is Building 123. We identified, we got  
14 a number of names of individuals to interview.

15 We have conducted those interviews.

16 We have a couple of people that  
17 we're still trying to run down that are  
18 associated with that. But we have conducted a  
19 large portion of those interviews.

20 Once they are complete and all the  
21 interviews are typed up and reviewed by the  
22 interviewees, they will be made available to

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

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

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

1 the Work Group and SC&A.

2 So, and I'll give you some of our 17  
3 path forward. And I know I kind of jumped  
4 past everything, but it kind of made it easier  
5 for me to run through it. And then I'll let  
6 Joe --

7 CHAIRMAN GRIFFON: Yes, you're  
8 hitting many agenda items.

9 MR. RUTHERFORD: Well, it just  
10 kind of, in my mind I could kind of get you  
11 where we were going. And then we could jump  
12 back and fill in.

13 CHAIRMAN GRIFFON: That's fine.  
14 Okay.

15 MR. RUTHERFORD: Okay. So once  
16 the documents have been released by DOE from  
17 LANL, a group -- we will do additional review  
18 of those documents, both SC&A, the Work Group,  
19 and NIOSH.

20 And after the reviews, NIOSH,  
21 after we review the documents and consider the  
22 information from both the documents and 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)

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

1 interviews, we will determine whether this  
2 (telephonic interference) tritium exposure is  
3 feasible.

4 And we think that we can get this  
5 done relatively quickly. If LANL -- and it's  
6 all dependent on LANL releasing the documents  
7 that they currently have. If LANL releases  
8 the documents by early March, we think we can  
9 make our decision on the information  
10 available, whether it changes our position,  
11 sometime in April.

12 That will, and we will either  
13 document this, and this is solely for the  
14 tritium exposure portion of it. We'll either  
15 document this -- if it changes our position we  
16 will document it and either a -- depending on  
17 what's appropriate based on General Counsel's  
18 recommendation, either an 83.14 recommending a  
19 Class, or an addendum, whichever's  
20 appropriate.

21 Or if we determine that it hasn't  
22 changed our position we may provide a White

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

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

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

1 Paper of what we've reviewed, what information  
19  
2 we found, and provide that to the Work Group.

3 And thorium is kind of, the  
4 thorium strikes is a little bit behind  
5 schedule compared to the tritium. If you  
6 remember, the thorium-strikes issue was not an  
7 issue that was brought up or evaluated in the  
8 petition initially. So it was identified by  
9 SC&A in some of their review.

10 It was also identified, actually,  
11 by some of the public during the public  
12 sessions, some additional discussion. So we  
13 have captured that issue as an issue that we  
14 need to do further work on. We have done a  
15 considerable portion of that work already with  
16 the data captures I mentioned earlier. We're  
17 looking for additional information.

18 We have identified that we, you  
19 know, we do believe that there may have been  
20 more thorium strikes than what were previously  
21 identified. We are looking for additional  
22 information on those.

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1                   We're looking at personal, any  
20  
2                   personnel monitoring data that exists. We're  
3                   also going to look at our current, or the dose  
4                   reconstruction approach that was previously  
5                   identified, and determine if it's still  
6                   bounding based on what we've learned.

7                   We do, you know, based on our  
8                   current schedule we believe that we can have  
9                   that issue to the Work Group in the form of a  
10                  White Paper in May of this year. We have  
11                  moved along relatively quickly.

12                  We do have interviews that we are  
13                  currently trying to set up associated with the  
14                  thorium strikes. And as we get closer on  
15                  those, I'll get that information to Joe and  
16                  the rest of the Work Group, in case they want  
17                  to sit in on those.

18                  CHAIRMAN GRIFFON: So, LaVon, just  
19                  to be clear, you said probably get a White  
20                  Paper to the Work Group by May for the thorium  
21                  strikes?

22                  MR. RUTHERFORD: That's correct.

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 CHAIRMAN GRIFFON: Okay. And the  
21  
2 tritium is on a faster --

3 MR. RUTHERFORD: Yes. The  
4 tritium's actually a little, we're a little  
5 farther along --

6 CHAIRMAN GRIFFON: Okay.

7 MR. RUTHERFORD: -- you know.  
8 Alright. I would think that both of those  
9 issues, if we could get the information to the  
10 Work Group, you know, April, May time frame.  
11 Have time to review it and have a Work Group  
12 meeting in June associated with those, in  
13 preparation for the July Board Meeting.

14 CHAIRMAN GRIFFON: Okay.

15 MR. RUTHERFORD: That was my  
16 initial thought.

17 CHAIRMAN GRIFFON: Okay. And you  
18 just hit the next steps item on the agenda.

19 MR. RUTHERFORD: Well see, I  
20 didn't have that in front of me. You thought  
21 I did, but no.

22 Another issue that we are

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 following up on was an issue brought up by  
22  
2 Terrie, the petitioner, the co-petitioner.

3 It's an issue associated with potential  
4 problems with the analysis conducted in  
5 Building 123. We have the documents that  
6 Terry had forwarded to SC&A.

7 We have taken those documents and  
8 we're currently defining tasks associated with  
9 resolving that issue, and we do not have a  
10 schedule for completing that at this time, but  
11 we are tasking that out.

12 CHAIRMAN GRIFFON: Very good.

13 MR. RUTHERFORD: All right. Okay,  
14 now we can jump back to wherever you want to  
15 jump back to.

16 CHAIRMAN GRIFFON: Well why don't  
17 I ask just if you go back to the first item on  
18 the agenda, and let Joe maybe just weigh in.  
19 You don't have to repeat everything LaVon  
20 said. But if there's anything to add.

21 MR. FITZGERALD: Not as much as I  
22 would have had with this summary. Just

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 process-wise, I want to clarify how SC&A plays  
23  
2 in all this, you know.

3 When the ER was issued and we got  
4 the tasking, we spent some time going through  
5 the various data captures and the information  
6 that NIOSH had collected in support of this  
7 most recent ER. So that was the baseline that  
8 we spent some time in the fall doing.

9 For this particular visit we went  
10 out early, I went out early to actually do an  
11 independent, additional document review, above  
12 and beyond what NIOSH had done for the ER,  
13 focusing specifically on some of these issues  
14 such as thorium strikes, neptunium, issues  
15 that weren't as much center stage on the ER.

16 So that was very helpful for the  
17 interviews that came later in the week because  
18 that was the basis for some of the questions  
19 that we were able to ask.

20 I thought it was a pretty  
21 effective give-and-take on the interviews. I  
22 think we clarified quite a bit on tritium, as

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 well the thorium strikes.

24

2 A little additional information on  
3 neptunium. This is an issue that has arisen  
4 at some of the other DOE sites over the last  
5 several years, particularly on the classified  
6 side. And we had spent a great deal of time  
7 trying to follow that up.

8 And I wanted to use that as a  
9 starting point for looking at whether there  
10 was any similar implications for Rocky Flats,  
11 since this information more or less arose over  
12 the last couple, two or three years.

13 And that was the context of my  
14 reviewing that issue in particular at Rocky,  
15 and of course, certainly, Terrie knows there  
16 was other comments on neptunium as well. So  
17 certainly we wanted to spend some time on  
18 that.

19 As far as path forward, I did get  
20 a chance, as LaVon mentioned, to begin  
21 reviewing the Los Alamos classified documents  
22 that were forwarded to DOE in Germantown,

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 since I'm pretty close to Germantown here.  
2 And that certainly will be something we'll  
3 spend time looking at, now that we are seeing  
4 the documents show up.

5 But I think pretty much what we're  
6 trying to do is see if there's any new  
7 information, information that wasn't  
8 considered before that would make a  
9 difference.

10 And as LaVon was pointing out,  
11 that's primarily the context of what we're  
12 doing as well. But doing it on an independent  
13 basis, and providing that information back to  
14 the Work Group. So without, you know,  
15 covering his, some of the same topics, that's  
16 pretty much where we are from our standpoint.

17 CHAIRMAN GRIFFON: And the one, I  
18 guess the one concern that I would have is if,  
19 on the timings, LaVon, that you proposed, the  
20 one concern I'd have is these documents from  
21 LANL. And then you just get a, you're  
22 expecting some to come from Rocky, I assume.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

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

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

1 They'll also go to Germantown. You know, the  
2 timing of getting those documents there and <sup>26</sup>  
3 having time enough to review those and, you  
4 know, develop your White Paper, and have SC&A  
5 an opportunity to review those. Do you think  
6 that timing is going to work?

7 MR. RUTHERFORD: Well, you know, I  
8 hope so.

9 CHAIRMAN GRIFFON: You know, I was  
10 --

11 MR. RUTHERFORD: I was optimistic  
12 --

13 CHAIRMAN GRIFFON: If you can  
14 predict.

15 MR. RUTHERFORD: Yes, exactly.  
16 You know, I was optimistic when I talked to  
17 you and Ted and Joe at the December meeting  
18 that we'd have enough information, or have all  
19 the information now, that we would have been  
20 able to be, you know, to accomplish more for  
21 this Work Group session.

22 So I, you know, I think that we

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 will have the information. I definitely  
27  
2 believe that the tritium issue, we will at  
3 least have reviewed all of the documents and  
4 developed enough information there to provide  
5 the Work Group something on that issue.

6 And I believe if everything goes  
7 accordingly, again that, like you said, it's  
8 really dependent on the release of the  
9 documents. That's going to push the schedule.

10 CHAIRMAN GRIFFON: I mean, do you  
11 have any indication from LANL about the  
12 balance of the records, or --

13 MR. RUTHERFORD: I never did --

14 CHAIRMAN GRIFFON: -- just kind of  
15 wait and see?

16 MR. RUTHERFORD: Yes, Greg Lewis  
17 has provided them the funding. At least when  
18 I talked to Greg last week, he'd provided them  
19 the funding to complete the task. But, you  
20 know, I just, I can't be for sure.

21 CHAIRMAN GRIFFON: Okay, okay.  
22 All right. And I think we kind of hit on 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)

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

1 main topics. Anything to add from NIOSH or  
28  
2 SC&A on the update?

3 MR. RUTHERFORD: You know, I will  
4 add another item that we are looking at, is  
5 that based on what we learned on the exposure  
6 scenario from the classified interviews and  
7 the shipping container information, we are  
8 doing some additional work to compare what  
9 potential exposures, the potential exposure  
10 generated from those scenarios and how they  
11 compare to what we've already identified as  
12 our bounding analysis, so.

13 CHAIRMAN GRIFFON: Very good.  
14 Okay, anything to add, Joe?

15 MR. FITZGERALD: Oh, no. I think  
16 --

17 CHAIRMAN GRIFFON: I think the  
18 proposed path forward is --

19 MR. FITZGERALD: I think that path  
20 forward is pretty much where we're on.  
21 Tritium, the thorium strikes and neptunium are  
22 some of the other issues that have 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](http://www.nealrgross.com)

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

1 mentioned by LaVon. Building 123, laboratory  
2 analyses, that kind of thing. I think we  
3 pretty much have that scope right now.

4 CHAIRMAN GRIFFON: The other thing  
5 I would urge as we're moving forward and  
6 getting close to setting a Work Group meeting,  
7 maybe in June. But as we, as these products  
8 get produced as these White Papers or, you  
9 know, these summaries of the interviews. You  
10 know, to the extent possible let's make them  
11 available to the public, you know, and to the  
12 petitioners, so they have lead time before,  
13 you know --

14 And I assume the next meeting  
15 would be a face to face meeting in Cincinnati.

16 But, you know, we want to give lead time so  
17 people have a chance to look at these before  
18 the meeting.

19 MR. FITZGERALD: Yes. I agree.  
20 And we'll do that. I will also make sure to  
21 keep you updated, Mark and Ted, you know, as  
22 the next weeks, as this progresses.

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 MS. BARRIE: Thanks for allowing  
2 me to comment. Although I wish that things  
3 would be moving quicker, I really appreciate  
4 this update. And in particular, following up  
5 on the analysis of the lab in Building 123.

6 I think that is one of the most  
7 important issues that needs to be resolved  
8 because if the data that NIOSH is basing their  
9 methodology on is faulty, falsified or, you  
10 know, not up to scientific standards, then it  
11 doesn't really matter what kind of equations  
12 they come up with, because it's based on  
13 faulty data. So that is one of the most  
14 important issues to resolve, is what I think.

15 And just to clarify something.  
16 The petition did include the thorium strikes  
17 as one of the issues to qualify or to have the  
18 SEC approved. But other than that, I  
19 appreciate, you know, trying to get me and the  
20 petitioners the documents in a timely matter  
21 because, you know, it does take us a lot  
22 longer, since we don't have all the science

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 behind us, to review these and understand  
2 them. And also for scheduling the next face  
3 to face Work Group so I can make arrangements  
4 to attend that.

5 But I appreciate everyone's hard  
6 work on this. And hopefully LANL will release  
7 the rest of the documents in a timely manner  
8 so we can move forward.

9 CHAIRMAN GRIFFON: Thank you,  
10 Terrie. And I appreciate your, I mean, your  
11 statement about the data is spot on. And I  
12 think NIOSH is definitely taking up that task  
13 to look into the Building 123 data. So, you  
14 know, we're certainly adding that on to what  
15 we need to look at.

16 MS. BARRIE: Okay, great.

17 CHAIRMAN GRIFFON: Thank you.

18 MS. BARRIE: Thank you.

19 CHAIRMAN GRIFFON: Any other  
20 comments?

21 (No response.)

22 Okay, I think, you know, this is

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 useful to just have a quick update. And, you  
2 know, I hope we can stay on schedule to, as  
3 LaVon proposed, to have a Work Group meeting  
4 sometime in June.

5 And I'll schedule this with LaVon  
6 and others to actually, as it gets closer, to  
7 actually set a date. And, you know, we'll go  
8 from there. But I think that's appropriate to  
9 have it before the July Board Meeting. So  
10 that sounds like a plan. And anyone else from  
11 the Work Group have any comments?

12 MEMBER MUNN: No. Just hopefully  
13 well before the July meeting, I would hope.

14 CHAIRMAN GRIFFON: Agreed, Wanda.

15 MEMBER MUNN: More than a couple  
16 of weeks.

17 CHAIRMAN GRIFFON: Yes. Okay.

18 MEMBER KOTELCHUCK: This has been  
19 helpful.

20 CHAIRMAN GRIFFON: Alright. Well  
21 thank you, everyone. I know this was a pretty  
22 short meeting. But I think it was worthwhile

**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, Rocky Flats 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 Rocky Flats Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change

1 just to get an update on where things stand,  
2 and our next steps forward. So thanks,  
3 everyone. And we'll talk soon. Thank you,  
4 and meeting adjourned.

5 (Whereupon, the above-entitled  
6 matter went off the record at 10:32 a.m.)

7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

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