

UNITED STATES OF AMERICA
CENTERS FOR DISEASE CONTROL

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NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

105th MEETING

+ + + + +

TUESDAY
JUNE 9, 2015

+ + + + +

The meeting convened at 11:00 a.m.,
Eastern Time, via teleconference, James M. Melius,
Chairman, presiding.

PRESENT:

JAMES M. MELIUS, Chairman
HENRY ANDERSON, Member
JOSIE BEACH, Member
BRADLEY P. CLAWSON, Member
R. WILLIAM FIELD, Member
DAVID KOTELCHUCK, Member
RICHARD LEMEN, Member
JAMES E. LOCKEY, Member
WANDA I. MUNN, Member
JOHN W. POSTON, SR., Member
GENEVIEVE S. ROESSLER, Member
PHILLIP SCHOFIELD, Member
LORETTA R. VALERIO, Member
PAUL L. ZIEMER, Member
TED KATZ, Designated Federal Official

REGISTERED AND/OR PUBLIC COMMENT PARTICIPANTS

ADAMS, NANCY, NIOSH Contractor
AL-NABULSI, ISAF, DOE
BAGRIER, DAVID
BARRIE, TERRIE
BARTON, BOB, SC&A
HINNEFELD, STU, DCAS
FITZGERALD, JOE, SC&A
GIAIMIS, JEAN
KINMAN, JOSH, DCAS
KOTSCH, JEFF, DOL
LIN, JENNY, HHS
MACIEVIC, GREG, DCAS
MAURO, JOHN, SC&A
NETON, JIM, DCAS
OSTROW, STEVE, SC&A
RUTHERFORD, LAVON, DCAS
STIVER, JOHN, SC&A
THURBER, BILL, SC&A

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

2 11:00 a.m.

3 MR. KATZ: Welcome everyone. This is
4 the Advisory Board on Radiation and Worker Health.
5 It's our 105th meeting.

6 The roll call, I'll just note up front
7 there are no matters on the plate that relate to
8 anyone's conflicts. So, we are not going to
9 address individual conflicts of Board Members.

10 Let me get started with roll call,
11 beginning with Board Members, and I'll just note
12 the ones I know are on the line that are ready.

13 (Roll call.)

14 Let me just say for everyone's benefit,
15 the agenda for the meeting is posted on the NIOSH
16 website under the EEOICPA section of the Board page
17 scheduled meetings for today's date. So, the
18 agenda is there, and the presentation being given
19 today is also posted there, so that members of the
20 public can follow along, as well as anyone else
21 Agency related who can't find their copy. Their
22 presentation should be there, as well as the report

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1 that the presentation is based on. We'll come to
2 that soon.

3 And then, let me just ask everyone,
4 particularly, people new to this meeting, please
5 mute your phones except when it's your opportunity
6 to address the group. And, if you don't have a mute
7 button on your phone, if you'd press *6 that will
8 mute your phone. Press *6 again and it will unmute
9 your phone, so that will improve the audio quality
10 for everyone on the line.

11 Please, do not at any point put the call
12 on hold, but hang up and dial back in if you need
13 to leave for some piece.

14 And, with that, it's your meeting. Dr.
15 Melius.

16 CHAIRMAN MELIUS: Okay, thank you.

17 I think the first order of business is
18 the Grand Junction Facilities SEC.

19 MR. KATZ: It is, thanks, Jim.

20 So, at the March Board meeting we had
21 several SECs acted on. One of them was Grand
22 Junction Facilities, and we had a unanimous vote

1 of the people attending. We had one Member who
2 couldn't make that vote, Dr. Field, and he had in
3 an absentee vote concurred with the rest of the
4 Board. So, it's still unanimous, that motion
5 passed, and I believe the Secretary has already
6 acted on that motion, consistent with the Board's
7 recommendations.

I think that covers that.

9 CHAIRMAN MELIUS: Okay, thanks, Ted.

10 And now, we'll move on to our next order
11 of business, which is the SEC Petition for the
12 Westinghouse Electric Corporation Facility in
13 Bloomfield, New Jersey. And, I believe first we
14 have a presentation from NIOSH.

15 DR. MACIEVIC: Yes. If I can get the
16 slides up here. Make sure it, actually, is
17 functioning.

18 CHAIRMAN MELIUS: For people on the
19 phone, our usual order is on a petition, is first
20 we'll hear from NIOSH about their presentation, and
21 their recommendation. We'll then have time for
22 the Board Members to ask any questions they may have

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1 of Greg, and then we'll give an opportunity for the
2 petitioners to make any comments that they wish to.
3 And then, the Board will consider the petition.

4 I also believe I overheard when we
5 started the meeting that the court reporter
6 transcribing this is new, at least to our group,
7 not new to transcribing. So, I'd just remind
8 everybody to please, when you are making comments
9 don't assume that he'll recognize your voice. So,
10 please, give your name, so it will make it a little
11 easier for him in terms of keeping track.

12 So, with that, go ahead, Greg.

13 DR. MACIEVIC: Okay. I'm Greg Macievic
14 with NIOSH. I'm a Health Physicist there for the
15 Westinghouse Electric Corporation in Bloomfield,
16 New Jersey, SEC 217.

17 This presentation, we are going to use
18 slides, do I need to say slide one, two, three?

19 MR. KATZ: Greg, that would be good for
20 the public's sake, that would be helpful, because
21 they don't have Live Meeting.

22 DR. MACIEVIC: Okay, sounds good, thank

1 you very much.

2 Slide two, this presentation we are
3 going to discuss the site history some, the sources
4 of information that we used to come up with our
5 consideration. We are going to look at the previous
6 dose reconstructions that have been done,
7 potential exposures at the site, the DR
8 feasibility, dose reconstruction feasibility
9 approaches, health endangerment clause, and the
10 proposed SEC Class addition.

11 Next slide.

12 On the SEC petition, it was received on
13 June 12, 2014. The petition Class was all Atomic
14 Weapons Employer/employees who worked at any plant
15 production area of Westinghouse Electric
16 Corporation in Bloomfield, New Jersey, from
17 January 1, 1950 through March 1, 2011. And, it was
18 qualified for evaluation on January 8, 2015, on the
19 lack of monitoring.

20 Next slide.

21 The petition Class evaluated was, all
22 employees who worked in any plant production area

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1 in the Westinghouse Electric Corporation site at
2 Bloomfield, New Jersey, during the period January
3 1, 1950 through March 1, 2011.

4 And, NIOSH, after looking through our
5 documentation, determined that April 30, 2000 was
6 the last date for the applicable EEOICPA program
7 exposures.

Next slide.

For the site history and background, it
produced uranium as an AWE employer during World
War II, and the covered time period for that were
1942 through 1949. And then, a period, February
to May, 1958, and June of 1959. There are also --
there is also a major residual period of radiation
from 1950 through March 1, 2011.

16 Workers from August 13, 1942 to
17 December 31, 1949, were added to an SEC under the
18 petition for SEC 00159. They produced 200 pounds
19 of thorium from Manhattan Engineer District in
20 early 1945.

21 | Next slide.

22 They processed -- there was processing

1 of uranium prior to 1950, and they used a
2 photochemical technique that was on the Building
3 7 roof, to produce U salt that was pipe-fed to the
4 building's basement. So, Building 7, as we'll
5 note later, is also the main -- is the only place
6 for the AWE work.

7 Then the electrolyzed in the basement
8 to yield uranium metal. In 1945, the contract
9 ended, the equipment was removed, and the
10 production facility was deactivated.

11 There are 11 main buildings, several
12 smaller buildings, and a garage. All the AWE work
13 took place in the basement and on the roof of
14 Building 7, as I've said.

15 This is the next slide, by the way.

16 After deactivation, Building 7 was
17 mostly used for research testing, as a research
18 testing laboratory.

19 Next slide.

20 The first commercial license was issued
21 in May of 1954, and they received only thorium
22 compounds. And, the commercial rad-work in the

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1 '50s was in Buildings 2, 6, 7, 8, and 9, and they
2 employed 78 workers, 26 people per shift, for three
3 shifts.

4 The site's commercial work mainly
5 developed and manufactured electric lamps, and
6 they looked at using natural thorium light
7 emissions in the production of thoriated tungsten
8 wire for light bulbs.

9 Next slide.

10 Now, based on our research, the
11 Department of Labor has added two more AWE
12 operational periods, that is, from February to May,
13 1958 and June 1959. Now, the active machining was
14 only for five days in 1958, and for five days in
15 1959.

16 The covered work included feasibility
17 test rollings for the Feed Materials Production
18 Center in Fernald. It included the Department of
19 Energy Health and Safety Laboratory oversight.
20 They did in small basis -- lot basis of production
21 of six tubes tested in 1958, and they performed
22 rotary elongation of these U tubes in the

1 fabrication of fuel elements.

2 Next slide.

3 That's just a picture of the rolling
4 mill for the tube elongation, just to get a feel
5 for what that looked like.

6 Next slide.

7 In October of 1976, all known or
8 suspected areas involved with the MED work were
9 surveyed under Formerly Utilized Sites Remedial
10 Action Program, FUSRAP.

11 Surveys that were done at that time
12 indicated traces of residual contamination,
13 uranium contamination, slightly in excess of
14 Nuclear Regulatory Commission guidelines in the
15 basement and on an outside loading dock of Building
16 7.

17 Next slide.

18 The D&D of the Building 7 began in 1976.
19 Westinghouse, and this is without any DOE
20 involvement, performed all the D&D work. In 1985,
21 all the site manufacturing operations stopped, and
22 all D&D was completed by April 30, 2000, hence, the

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1 date we are using to stop the EEOICPA work, and the
2 fact that this was all commercial, this was all done
3 by the site, or through the NRC, not through any
4 DOE work.

5 Next slide.

6 Sources of available information, we
7 used TBD-6000 to model the doses for the residual
8 contamination generated from the machining
9 operations.

10 There were 496 documents found in the
11 NIOSH Site Research Database. We did 8 interviews
12 with former employees and site experts. And, we
13 did other data searches on the internet and some
14 other documentation was not in the Site Research
15 Database.

16 Next slide.

17 In the previous DRs, there were 41
18 claims submitted for dose reconstruction.
19 Thirty-five cases were submitted for Energy
20 employees who worked during the period under
21 evaluation, from January, 1950 to March 1, 2011.
22 Thirty-two dose reconstructions were completed for

1 Energy employees who worked during the period under
2 the evaluation, and there were zero cases with
3 dosimetry records, and zero claims with any
4 external dosimetry records.

5 And, there's two routes of potential
6 exposure. One was internal inhalation and
7 ingestion of uranium and thorium, and the other is
8 an external photon/beta exposure from uranium
9 source material, its decay products, and small
10 amounts of U and thorium surface contamination
11 present when the operations ceased.

12 Next slide.

13 For the internal sources, we have
14 urinalysis, and we -- well, NIOSH has reviewed
15 commercial license requirements for the WEC to
16 perform urinalysis for commercial licenses, to
17 perform urinalysis beginning in 1954. However, we
18 haven't located any of those records.

19 And, we also requested, WEC requested
20 a license modification for termination of that
21 urinalysis program in 1964, due to low exposure
22 potential.

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1 Next slide.

2 This is still on the internal sources.

3 We also have air sampling data. In 1958, during
4 the 2nd operational period, there were 39 general
5 air samples taken, 7 BZ samples, gross alpha, and
6 a maximum of 6595 dpm per cubic meter, and that's
7 from the site visit by J. Quigley, M.D., who was
8 reviewing the rad part of the operations.

9 In 1959, during the third operational
10 period, there were 20 general air samples, 7 BZ
11 samples, gross alpha, with a maximum of 5551 dpm
12 per cubic meter. And, there were many other
13 samples, GA, BZ, ventilation exhaust and surface
14 contamination, sampled, but they were for the
15 monitoring of commercial work in the non-DOE D&D
16 work.

17 Now, the potential source for external
18 exposure, there was no data found for AEC work.

19 Okay. On the external sources from the
20 air monitoring data in 1958 again, Dr. Quigley
21 provided the oversight and direction of the work
22 area decontamination to achieve a .1 millirem per

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1 hour dose rate, and there's other data available
2 for the D&D and commercial work.

3 Next slide.

4 Now, on the DR feasibility, dose
5 reconstruction feasibility and approaches, NIOSH
6 finds it is not feasible to estimate commercial
7 exposures with sufficient accuracy for all workers
8 at the WEC during the operational periods from
9 February 1, 1958, through May 31, 1958, and from
10 June 1, 1959, through June 30, 1959.

11 Now, the radiation doses from
12 commercial operations are also required to be
13 assessed during the AWE Operations Periods. And,
14 since we could not get -- NIOSH found that the
15 available monitoring records, process
16 descriptions, and source-term data are adequate to
17 complete dose reconstructions with sufficient
18 accuracy for the Class of employees during the
19 residual periods, but not in the operational
20 period.

21 Next slide.

22 All right. The first residual period,

1 from January, 1950 through January 31, 1958, we are
2 going to use the maximum average pre-work
3 gross-alpha general air sample taken during 2nd
4 operational period, of 12 dpm per cubic meter. So,
5 this is right before the 2nd operational period,
6 from the beginning, that is the value, 12 dpm per
7 cubic meter that's decayed out.

8 We'll assume that represents the
9 residual alpha contamination generated during the
10 first period, and has been re-suspended. And
11 then, we will use the OTIB-70 default depletion
12 constant to model the build-up of this air
13 concentration back to 1950. So, we'll build up
14 from that 12 and go back to what it would be at the
15 beginning of 1950, based on that, too. So, we'll
16 know what the levels of air concentration are
17 throughout the period.

18 Next slide.

19 The second residual radiation period,
20 June 1, 1958, through May 31, 1959, we are using
21 average air sample of 12 dpm per cubic meter
22 collected after the clean-up and decontamination

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1 work was done at the end of the second operational
2 period. That's not the same dpm per cubic meter
3 that you saw on the other side, it's a coincidental
4 thing, but they are not the same. That's the
5 second after.

6 And then, we are going to assume it is
7 representative of the air concentration at the
8 start of this residual radiation period and then
9 apply it as a constant.

10 Next slide.

11 In the third residual radiation period,
12 July 1, 1959, through the remediation of that work,
13 as I said, April 30, 2000, we are going to start
14 with the highest air sample collected since 5551
15 dpm per cubic meter collected during the third
16 operational period, and use the settling and
17 re-suspension method presented in
18 Batelle-TBD-6000 to estimate the airborne
19 concentration at the beginning of this residual
20 radiation period.

21 And, we use the OTIB-70 depletion
22 methods for subsequent years, depleted out as we

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1 go to 2000, start with that as the maximum and work
2 it down.

3 Next slide.

4 For the D&D activities that were
5 non-DOE, we'll look at, there was no remediation
6 period listed for WEC in the DOE Facilities
7 Database, and no D&D was performed at DOE direction
8 or expense.

9 D&D work, Building 7, began on November
10 1, 1976, and was completed by April 30, 2000. And,
11 we are going to suggest that we use the third
12 residual radiation period air concentration
13 applicable at the start of each D&D effort, that
14 500 number back there, and then bind exposures to
15 it, and increase it by an order of magnitude with
16 the scabbling and other work going on, and use that
17 value to address additional re-suspension created
18 during the D&D activity, and as it says here, as
19 discussed in OTIB-70.

20 Next slide.

21 The intakes for the residual radiation
22 periods will apply to all the personnel with

1 primary responsibilities for the rad production
2 areas.

3 For the administrative or
4 non-production area personnel, NIOSH is going to
5 assume that they were exposed to 10 percent of that
6 concentration as that for the personnel was primary
7 responsibilities for the set-up of the production
8 area personnel.

9 Next slide.

10 All the air samples used to create these
11 bounding methods were initially analyzed for gross
12 alpha content; so NIOSH will choose the most
13 claimant-favorable mixture of thorium from
14 potentially the first operational period prior to
15 1950 or uranium when it is estimating worker dose,
16 so maximized by using it from the first SEC period.

17 NIOSH will derive the personal
18 ingestion rate methodologies presented in
19 OCAS-TIB-009.

20 Next slide.

21 For external doses, NIOSH is going to
22 bound the residual radiation period by using the

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1 air concentrations previously modeled for the
2 applicable periods we talked about, and apply
3 methodology as described in OTIB-70, and the
4 Environmental Protection Agency's Guidance Report
5 No. 12, to model doses for contaminated surfaces
6 and air submersion. That Report 12 is External
7 Exposure to Radionuclides in Air, Water, and Soil,
8 exposure to dose coefficients for general
9 application, based on 1987 federal radiation
10 protection guidance.

11 Next slide.

12 And so, we will generally use
13 Battelle-TBD-6000, TIB-9, and OTIB-70 methods, as
14 well as available air data and operational
15 descriptions, for partial dose reconstructions for
16 the following: AWE operations associated with the
17 uranium machining project for Fernald from May 12,
18 1958 through May 16, 1958, and from June 25, 1959
19 through June 29, 1959.

20 Next slide.

21 For health endangerment, the evidence
22 reviewed in this evaluation indicates that some

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1 workers in the Class may have accumulated chronic
2 radiation exposures through intakes of
3 radionuclides and direct exposure to radioactive
4 materials.

5 Consequently, NIOSH is specifying the
6 health may have been endangered for those workers
7 who were employed for a number of work days
8 aggregating at least 250 work days within the
9 parameters established for this Class or in
10 combination with work days within the parameters
11 established for one or more other Classes of the
12 employees in the SEC.

13 Next slide.

14 So, the conclusions are, we have three
15 residual periods, 1/1/50 to 1/31/58, 6/1/58 to
16 5/31/59, and 7/1/59 to 4/30/2000. And, the
17 exposure source is internal and external. We are
18 saying they are both feasible, and can do dose
19 reconstruction during those three residual
20 periods.

21 In the AWE operations periods of 2/1/58
22 to 5/31/58, and 6/1/59 to 6/30/59, we are saying

1 that you can't, because of the mixture of
2 commercial work being done also. And, we are
3 saying for the internal and external it's just not
4 feasible, and only partial dose reconstruction is
5 to be done.

6 So, the final slide, the proposed Class
7 is all Atomic Weapons Employees who worked at the
8 facility owned by Westinghouse Electric
9 Corporation in Bloomfield, New Jersey, during the
10 period from February 1, 1958 through May 31, 1958,
11 or during the period June 1, 1959 through June 30,
12 1959, for a number of work days aggregating at least
13 250 work days, occurring either solely under this
14 employment, or in combination with work days within
15 the parameters established for one or more other
16 Classes of employees included in the Special
17 Exposure Cohort.

18 And, that is it.

19 CHAIRMAN MELIUS: Okay, thank you, Greg.

20 Board Members, do you have any
21 questions on the presentation, or the report.

22 MEMBER KOTELCHUCK: Dave Kotelchuck.

1 I have a question. The AWE operational
2 periods cover 150 days. On the other hand, as I
3 understand it, compensation has to be -- people
4 have to be aggregated for at least 250 work days.
5 And, the earlier period ends in 1945, I believe.

6 How is it possible for people to be
7 compensated for work during the AWE operations
8 period? Could you explain it to me?

9 DR. MACIEVIC: Well, the way the law is
10 stated, you would have those days in those two
11 operational periods, and then any time you can add
12 on from the previous SEC of if they worked at some
13 other site that had an SEC where you can combine
14 time periods that put you into it.

15 I'm not sure if that's exactly it, but
16 Jim Neton is there, he could maybe explain that for
17 sure.

18 DR. NETON: That's right -- this is Jim,
19 that's correct. If you remember on one of the
20 earlier estimates there's area for SEC Class at
21 this site from August 13, 1942 through December 31,
22 1949.

1 MEMBER KOTELCHUCK: Right.

2 DR. NETON: So, these days would just be
3 supplemental to those days and got -- they
4 de-aggregated. So, all the classes would be
5 combined to establish 250 days.

6 MEMBER KOTELCHUCK: Right.

7 So, but for anyone hired after World War
8 II, which might be a large component of people.
9 There were many persons who were away at war and
10 came back, they could not be compensated for this
11 period.

12 DR. NETON: Well, no, this is the --

13 MEMBER KOTELCHUCK: Unless they worked
14 elsewhere.

15 DR. NETON: -- December 31, 1949.

16 MEMBER KOTELCHUCK: Oh, okay, right.
17 Right. Okay, so '49 makes it more readily
18 possible. Okay.

19 DR. NETON: Yes.

20 MEMBER KOTELCHUCK: Right. So, it is a
21 very small window of eligibility, but that's what
22 we've determined.

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1 Okay, thank you.

2 MEMBER BEACH: Jim, this is Josie. I have
3 a question also.

4 It seems fairly complicated with moving
5 TBD-6000, OTIB-70, and I was going to ask you to
6 identify -- if you could identify the different
7 people and what different jobs they did. But, I
8 think I'll go to my last question and just ask, does
9 NIOSH have any sample dose reconstruction to show
10 how and what they did with all those different --

11 DR. MACIEVIC: This is Greg Macievic.

12 Yes, we have done dose reconstructions
13 for several scenarios. And, I believe they are out
14 there for the Board to look at, if I'm not mistaken.

15 MR. RUTHERFORD: LaVon Rutherford. I'm
16 actually verifying where those were placed. They
17 should have been put on the Board's -- the Advisory
18 Board's folder for Westinghouse, and I'm looking
19 for that now.

20 MEMBER BEACH: Yes, I'm sure, because I
21 was just at a disadvantage and unable to pull it
22 up, since I'm gone, but it is there and we can take

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1 a look at it.

2 DR. MACIEVIC: And, we'll look, and if
3 it's not, it will be put in there immediately.

4 MEMBER BEACH: Thank you.

5 MEMBER CLAWSON: Hey, Ted, just to let
6 you know, this is Brad. I've joined you. Sorry,
7 I had an interview I was performing.

8 MR. KATZ: Thanks, Brad. I was going to
9 check when we got beyond this, but thank you.

10 And, while we have you, let me just
11 check as well, Dr. Richardson, are you on the line?
12 Okay.

13 Okay, carry on.

14 CHAIRMAN MELIUS: Any other Board
15 Members with questions?

16 MEMBER ZIEMER: This is Paul Ziemer. I
17 have a question.

18 CHAIRMAN MELIUS: Go ahead.

19 MEMBER ZIEMER: I'm wondering, Greg, if
20 you can help us understand why if you are able to
21 use the air data from the operational periods in
22 a valid way for the residual, but not use the air

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1 data from the operational period for the
2 operational period. In other words, why not use
3 the most claimant-favorable mix during the
4 operational period, and bound the doses based on
5 that?

6 I mean, you have air sampling data for
7 both operational periods, correct?

8 DR. MACIEVIC: Right.

9 MEMBER ZIEMER: And, we assume that it's
10 useable for the residual periods. Why wouldn't it
11 be useable for the operational period itself?

12 DR. MACIEVIC: Well, a big part of the
13 operational period, we have the air sampling data,
14 but not -- well, there's not a lot of it in that,
15 and we also have the commercial work going on, which
16 we can't get a good handle on, on what was going
17 with that. So, in the combination of the
18 commercial and the AWE work, we felt that we really
19 couldn't do a good job of doing a dose
20 reconstruction during those periods.

21 Whereas, if we just assumed the highest
22 value in the residual, we can go with that and have

1 a better grasp of where we were, rather than during
2 the operational period.

3 MEMBER ZIEMER: Well, I am sort of asking
4 you why not make the same assumption for the
5 operational. I just want to make sure that -- I'm
6 not advocating that we, necessarily, do that, but
7 I want to make sure that we are comfortable.

8 It's the thorium issue again, is that
9 not correct, because it's a lot of commercial
10 thorium added on to the uranium work?

11 DR. MACIEVIC: Yes, that's it, too.
12 Yes, the thorium, because they did a lot of the
13 thorium to work with the tungsten in the light
14 bulbs, and a lot of that activity was going on,
15 which we haven't gotten a big handle on.

16 We do know decently -- what we can use
17 from the 19 -- the first operational period to get
18 a feel for what the thorium amounts were, but as
19 you get later into the operational work, or the
20 commercial work, it loses its -- yes, we start to
21 lose the feel for doing the solid dose
22 reconstruction during those operational periods.

1 DR. NETON: Greg, this is Jim.

2 Could you go back to that slide that
3 shows what we can and cannot reconstruct? Maybe
4 that would be helpful.

5 DR. MACIEVIC: Let's see.

6 DR. NETON: It's the next to the last
7 slide, I think is what I was looking for.

8 The next to the last slide, it's got
9 little green bars on it.

10 DR. MACIEVIC: Mine is in black and
11 white.

12 DR. NETON: At the very end, the next to
13 the last slide on your presentation.

14 Okay. For AWE operational period, we
15 are saying we cannot reconstruct dose in the
16 operational period because of the commercial
17 activities, but we are going to do partial dose
18 reconstructions in those operational periods using
19 uranium air data, if I'm not mistaken.

20 DR. MACIEVIC: But, and what we do know
21 from the thorium -- well, from the actual AWE work
22 back in the first operational period.

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1 DR. NETON: Right, but we are going to
2 use the uranium air monitoring data we have during
3 the operational period. It's just that we can't
4 reconstruct the thorium exposures that occurred
5 during that period, which were commercial
6 activities.

7 DR. MACIEVIC: Right. Yes, the
8 commercial activity is the long hole in the tent,
9 that's the thing that was causing the problem.

10 DR. NETON: Right, but I think what Dr.
11 Ziemer was asking, is why wouldn't we use the
12 uranium, we are going to use the uranium data we
13 have to do partial dose reconstructions.

14 DR. MACIEVIC: Well, yes, I mean, we are
15 going to do the partial dose, but we won't be able
16 to do full ones, without having all that other.

17 DR. NETON: Right.

18 DR. MACIEVIC: The AWE activities will
19 pair data from those periods.

20 DR. NETON: But not the commercial
21 activities.

22 DR. MACIEVIC: Right. Right.

1 MEMBER ZIEMER: You still assume the
2 mix, though, right, you are still taking the
3 thorium into consideration, or not?

4 DR. MACIEVIC: Right, in using
5 information from what it originally was, not trying
6 to look at what kind of thorium would have been
7 built in, due to commercial work.

8 MEMBER ZIEMER: I got you. Okay.

9 CHAIRMAN MELIUS: Any other -- I mean,
10 I was also confused by that part, and still am to
11 some extent.

12 DR. NETON: Maybe this might be helpful
13 or not, but there's two thorium exposures here.
14 There's one that's a residual from the AWE
15 operations earlier, and then there's this sort of
16 unknown thorium exposure that occurred during
17 these AWE operational periods, or commercial
18 activities, and we have no idea what they were.
19 But, those are not considered during the residual
20 contamination period, because they are not
21 AWE-derived exposures.

22 I don't know if that helps or not.

1 CHAIRMAN MELIUS: Yes, it does.

2 MEMBER ZIEMER: That helps me.

3 CHAIRMAN MELIUS: Any other Board
4 Members with questions for Greg?

5 Okay. Hearing none, I'll give the
6 opportunity for the petitioners to make comments.
7 I don't know if they wish to or not, but if they
8 do speak up now.

9 MR. BAGRIER: This is David Bagrier. I
10 have a couple of points I would like to raise.

11 CHAIRMAN MELIUS: Go right ahead.

12 MR. BAGRIER: Okay. Number one, when we
13 talk about -- you were talking about the commercial
14 -- the AWE activity, and there was no mention of
15 dates where the work was done for the U.S. Air
16 Force, where some of that started earlier in the
17 Class one period, and went on -- off and on during
18 the Class two period. And, it was a period where
19 the Air Force work went out with thorium.

20 MS. GIAMIS: David?

21 MR. BAGRIER: Yes.

22 MS. GIAMIS: This is Jean. I have in

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1 front of me a document, "Development of
2 Dispersion-Strengthened Tungsten Base Alloys,
3 Utilization of Thorium," from the Air Force
4 Materials Laboratory, dated 1966. So that, it
5 would seem from this document that there were, in
6 fact, other military contracts going on with
7 thorium.

8 DR. MACIEVIC: This is Greg Macievic.
9 If I could just interject one little thing.

10 Yes, and there probably were, but it's
11 not atomic weapons, AWE work with the DOE. That's
12 why it's not considered.

13 MS. GIAMIS: Okay.

14 CHAIRMAN MELIUS: Any other comments?

15 MR. BAGRIER: Yes, there was no clean-up
16 after the 1945 -- the equipment was removed, but
17 there was no evidence of a clean-up, such as
18 clean-ups that occurred later on.

19 And, the first clean-up occurred in
20 1978, and then, subsequently, there was a clean-up
21 ordered for the 1980-1981 period, and then finally
22 there was another clean-up ordered for 1993, where

1 previous pipes were buried below some of the
2 buildings that were not found earlier in the
3 previous clean-ups.

4 So, the Government was involved with
5 finding those things, so there were evidence that
6 radiation continued on, even up to the 1993 final
7 clean-up.

8 So, I don't see where some of this was
9 considered in your benchmark dates.

10 DR. MACIEVIC: I'll comment -- and, you
11 are absolutely right, there was a lot of work done
12 for non-DOE activities. But, we are not in this
13 SEC considering non-DOE work.

14 And, yes, there is rad material
15 produced through the commercial operation, and
16 like you said through the Air Force and other
17 activities, but they were not DOE work.

18 So --

19 MR. BAGRIER: You don't know that,
20 though.

21 DR. MACIEVIC: Well, by their
22 contracts we do, we've seen what kind of contracts

were done and with whom, and so we know they were
not DOE. DOE itself does not have anything
associated with them at those periods of time.

4 CHAIRMAN MELIUS: Any other comments?

5 Okay. If not, I guess would entertain suggestions
6 for how we should handle this, we just received it
7 relatively recently, and have not had a long time
8 to review it.

15 CHAIRMAN MELIUS: Correct, it would be
16 added to any other time that was part of the Special
17 Exposure Cohort. So, the earlier time period at
18 Westinghouse, if a person had worked in some time
19 period during that, that would be added to it. You
20 know, it might not have qualified during the
21 earlier time period, but this time period would be
22 added to that.

1 Or, if they worked at another facility
2 that was part of the Special Exposure Cohort.

9 CHAIRMAN MELIUS: It's 250 days, not 250
10 hours, and it's -- it has to be working during the
11 time periods that are covered. If they are working
12 through a time period that's not covered, that is
13 not added, and that would not qualify for the SEC.
14 Their individual dose would still be reconstructed
15 during the Special Exposure Cohort period for the
16 extent that that's, you know, made available to do
17 that, which NIOSH indicates there is some data that
18 they could do that with.

19 MR. BAGRIER: Well, Class 2, 250 hours
20 in Class 2, that includes those time periods of 1958
21 or 1959.

22 CHAIRMAN MELIUS: Correct.

1 MR. BAGRIER: Okay.

2 CHAIRMAN MELIUS: It's 250 days, not 250
3 hours.

4 MR. BAGRIER: My mistake.

5 CHAIRMAN MELIUS: That's okay, it's
6 confusing.

7 MR. BAGRIER: It is. There's a
8 tremendous amount of numbers involved.

9 CHAIRMAN MELIUS: Yes.

10 MEMBER ZIEMER: Jim, Paul Ziemer again.
11 Could I ask one more quick question?

12 CHAIRMAN MELIUS: Sure thing, Paul. Go
13 ahead.

14 MEMBER ZIEMER: Has SC&A reviewed any of
15 the facility's operations?

16 CHAIRMAN MELIUS: I don't believe so.

17 MR. STIVER: This is John Stiver. We
18 have not reviewed it yet.

19 CHAIRMAN MELIUS: As I was saying, you
20 know, one option would be to have SC&A review the
21 entire report, the back-up documents. The other
22 would be to have -- concur with NIOSH's

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1 recommendation for the SEC at this point, but
2 continue to review that time period. You know, the
3 petition covers, you know, a lengthy time period,
4 and there's, obviously, a lot of information to be
5 considered there.

6 Really, it's up to the Board as to how
7 they wish to move forward on that. I mean, either
8 way would be fine, and consistent with how we've
9 done it before.

10 Anybody on the Board wish to make a
11 motion, or indicate what you would like to do?

12 MEMBER CLAWSON: Jim, this is Brad. I
13 just wanted to make sure. So, SC&A has not
14 reviewed this to this point?

15 CHAIRMAN MELIUS: Correct, we just
16 received this report --

17 MEMBER CLAWSON: Like this week.

18 CHAIRMAN MELIUS: -- a couple weeks
19 ago, yes.

20 MEMBER CLAWSON: All right. Well, I
21 move that SC&A reviews this myself, because to tell
22 you the truth, I'm a little bit confused on it

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1 myself.

2 CHAIRMAN MELIUS: Personally, I would
3 agree with that, except I don't know if it's -- do
4 we want to approve -- do we want to concur with the
5 SEC portion of this while we review the rest of it?

6 MEMBER BEACH: Jim, this is Josie, and
7 I would say that we -- I see no reason not to approve
8 the SEC time period, with note that this is going
9 to SC&A to review and to a Work Group.

10 CHAIRMAN MELIUS: Yes, correct.

11 MEMBER BEACH: So, I would make the move
12 to make the motion to approve for the NIOSH time
13 period.

14 MEMBER CLAWSON: I second that, Jim.

15 CHAIRMAN MELIUS: Okay. We have a
16 motion and a second. Any further discussion?

17 MEMBER MUNN: Yes, Jim, this is Wanda.

18 It's valid to take the technical
19 position that, sufficient accuracy as we are
20 required to use the term here, as it's being applied
21 here. Isn't truly appropriate. It's an
22 artificial construct that's being required by the

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1 policy and procedure structures, and restrictions.
2 If this Board has developed and imposed on
3 calculations, the manufacturing and level of
4 radiological process that is being described in
5 this, don't really constitute serious exposure to
6 the employees.

20 So, I can't support this for that
21 reason.

22 || CHAIRMAN MELIUS: Okay, thank you,

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1 Wanda.

2 Any additional comments?

3 MS. GIAMIS: I need to ask a question.

4 This is Jean Giamis again.

5 So, essentially, what we are saying is
6 that unless workers were in some way, shape, or form
7 exposed in terms of the AWE work, I mean, let's be
8 honest here, the Manhattan Project, in the early
9 1940s that was done with the processing of pure
10 uranium, and then concomitant to that, other
11 thorium alloys that were used, that unless people
12 were exposed directly to that, then the idea of
13 residual impact is null and void.

14 Essentially, there was no more harm
15 from radiation after, oh, let's say, 1945, that
16 everything was cleaned up, and that the large
17 numbers of people who died from various forms of
18 cancer within Westinghouse Lamp in Bloomfield just
19 died coincidentally.

20 Is that what I'm understanding here?

21 CHAIRMAN MELIUS: That's not correct,
22 and it's not really consistent with what the

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1 program has done. We are, actually, really in the
2 middle of the deliberations on that.

3 MS. GIAMIS: Right.

4 CHAIRMAN MELIUS: So, we need to finish
5 up our work here.

6 MS. GIAMIS: Okay.

7 CHAIRMAN MELIUS: Any other Board
8 Members that have comments before we vote on the
9 motion? We have a motion to approve the NIOSH
10 recommendation, in terms of the two SEC periods,
11 and then to refer the report to follow-up for SC&A
12 review, and then to come back to one of our Work
13 Groups for further discussion and review, and then,
14 eventually, back to the Board.

15 So, without any more comments, hearing
16 anymore comments, I'll ask, Ted, do you want to do
17 the roll call?

18 MEMBER ZIEMER: Just one question.
19 This is Paul Ziemer again.

20 CHAIRMAN MELIUS: Yes.

21 MEMBER ZIEMER: So, the motion would be
22 to -- and maybe we should have two motions -- the

1 motion is to approve the two operational periods
2 the one in '58 and the one in '59 and then the two
3 residual periods --

4 CHAIRMAN MELIUS: Three residual
5 periods, yes.

6 MEMBER ZIEMER: Three residual periods.

7 CHAIRMAN MELIUS: Yes.

8 MEMBER ZIEMER: And, we would refer the
9 review of the residual periods back to SC&A, is that
10 what the motion is?

11 CHAIRMAN MELIUS: Correct.

12 MEMBER BEACH: Yes.

13 MR. KATZ: Okay. Did that take care of
14 it for you, Paul?

15 MEMBER ZIEMER: Yes. I wanted to be sure
16 that was what was being proposed.

17 MR. KATZ: Right, and that's clear to me,
18 and is everyone else straight here?

19 Okay.

20 MEMBER ZIEMER: One other question.

21 As part of the review of those residual
22 periods, it seems to me that SC&A will also have

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1 to look at the data from the two operational
2 periods, because that data is the basis for some
3 of the residual data for dose reconstruction. So,
4 they still will, in a sense, be looking at that.
5 They, obviously, cannot recommend something
6 different if we approve this, but they still have
7 the ability to look at the data in those two
8 periods, correct?

9 CHAIRMAN MELIUS: Correct.

10 MEMBER ZIEMER: Okay, thank you.

11 MR. KATZ: Very good, is everyone set
12 then? All right, we are voting, and I'll do this
13 alphabetically, and I'll include, just in case, Dr.
14 Richardson has joined us, I'll include him.

15 Dr. Anderson?

16 MEMBER ANDERSON: Approve the motion.

17 MR. KATZ: Ms. Beach?

18 MEMBER BEACH: Yes.

19 MR. KATZ: Mr. Clawson?

20 MEMBER CLAWSON: Yes.

21 MR. KATZ: Dr. Field?

22 MEMBER FIELD: Yes.

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1 MR. KATZ: Dr. Kotelchuck?

2 MEMBER KOTELCHUCK: Yes.

3 MR. KATZ: Dr. Lemen?

4 MEMBER LEMEN: Yes, and as I told you

5 yesterday, Ted, I have to cut out at noon today.

6 MR. KATZ: Very good, thanks.

7 Dr. Lockey?

8 MEMBER LOCKEY: Yes.

9 MR. KATZ: Dr. Melius?

10 CHAIRMAN MELIUS: Yes.

11 MR. KATZ: Ms. Munn?

12 MEMBER MUNN: No.

13 MR. KATZ: Dr. Poston?

14 MEMBER POSTON: Yes.

15 MR. KATZ: Dr. Richardson? Okay, he

16 appears to be absent, and I'll collect his vote

17 after this.

18 Dr. Roessler?

19 MEMBER ROESSLER: Yes.

20 MR. KATZ: Mr. Schofield?

21 MEMBER SCHOFIELD: Yes.

22 MR. KATZ: Ms. Valerio?

1 MEMBER VALERIO: Yes.

2 MR. KATZ: And, Dr. Ziemer?

3 MEMBER ZIEMER: Yes.

4 MR. KATZ: So, it is -- the motion passes
5 with a large majority, and I will collect the extra
6 votes.

7 CHAIRMAN MELIUS: Okay, thank you.

8 And, I have drafted a letter which I
9 circulated to NIOSH and to our attorneys. I
10 haven't heard back from everybody yet, so I think
11 we will hold the letter and circulate it later, once
12 I've heard back from everybody.

13 Yes?

14 MEMBER KOTELCHUCK: Dave.

15 CHAIRMAN MELIUS: I'm asking our lawyer.

16 Jenny?

17 MS. LIN: Sorry. I sent you my response
18 earlier today, I believe.

19 MR. KATZ: Yes, Jim, everyone was in
20 agreement that reviewed the letter, the draft
21 letter.

22 CHAIRMAN MELIUS: Oh, okay. Well, I

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1 never heard from Jenny. I didn't get that email.

2 That's okay. Probably sent it to my CDC address.

3 MS. LIN: Let me research that.

4 CHAIRMAN MELIUS: Okay. That's fine.

5 Then let me get the letter here.

6 Okay. It's the Advisory Board on
7 Radiation Worker Health, the Board, has evaluated
8 Special Exposure Cohort (SEC) Petition 00217
9 concerning workers at the Westinghouse Electric
10 Corporation, (New Jersey facility) in Bloomfield,
11 New Jersey, under statutory requirements
12 established by the Energy Employees Occupational
13 Illness Compensation Program Act of 2000
14 incorporated in 42 CFR Section 83.13. The Board
15 respectfully recommends that SEC status be
16 accorded to all atomic weapons employees who worked
17 at the facility owned by Westinghouse Electric
18 Corporation of Bloomfield, New Jersey, during the
19 period from February 1, 1958 to May 31, 1958, or
20 during the period from June 1, 1959 through June
21 30, 1959, for a number of work days aggregating at
22 least 250 work days occurring either solely under

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1 this employment or a combination with work days
2 within the parameters established for one or more
3 other Classes of employees included in the Special
4 Exposure Cohort.

5 This recommendation is based on the
6 following factors. Individuals are employed at
7 this facility in Bloomfield, New Jersey, during the
8 time periods in question, worked on the production
9 of uranium metal related to their weapon
10 production.

11 The National Institute for
12 Occupational Safety and Health (NIOSH) review of
13 available monitoring data, as well as its available
14 process and source term information for this
15 facility, found that NIOSH lacks the sufficient
16 information necessary to complete individual dose
17 reconstruction with sufficient accuracy for
18 external exposures to radiation (with the
19 exception of occupational medical x-rays),
20 internal radioactive exposure to uranium and
21 thorium to which these workers may have been
22 subjected during the time periods in question.

3 NIOSH determined that health may have
4 been endangered for these employees at this
5 facility during the time periods in question. The
6 Board also concurs with this determination.

7 These considerations were discussed at
8 the June 9th Board meeting, held by conference
9 call. The Board recommends that this Class be
10 added to the SEC.

17 Okay. The next thing on our agenda is
18 an update from LaVon Rutherford.

19 MR. RUTHERFORD: All right. This is
20 LaVon Rutherford. I will give an SEC update.
21 It's going to be pretty quick. We'll be presenting
22 one new SEC petition evaluation at the July

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1 Advisory Board meeting. That will be for
2 Carborundum. This Evaluation Report was recently
3 approved and sent to the Advisory Board.

4 Class evaluated by NIOSH, is all
5 employees who worked in any area of the Carborundum
6 Company facility on Buffalo Avenue in Niagara
7 Falls, New York, January 1, 1943 through December
8 31, 1976.

9 And again, we'll be discussing that
10 petition at the July meeting.

11 There will be no other new petitions
12 discussed at the meeting. We do have two petition
13 evaluations that we have noted to the Advisory
14 Board and the petitioners that we will not make the
15 180 days in completing the petition evaluation.
16 That's for Lawrence Livermore National Lab and
17 Argonne National Lab West.

18 We will present these evaluations at
19 the November meeting. We will also be presenting
20 -- we are on schedule to present a Blockson Chemical
21 petition evaluation, and that petition evaluation
22 is for the residual period.

1 That's about it. There are some
2 petition evaluations that are with Work Groups that
3 potentially could be presented or could come to
4 closure at the July meeting. I don't know if you
5 want to wait until the Work Group committee
6 discusses that or not, but other than what I've
7 discussed that's the only new petition.

8 CHAIRMAN MELIUS: Okay. Thank you,
9 LaVon.

10 Why don't we hold off on the others
11 until the Work Groups speak. If they don't, then
12 we can cover it at the July Board meeting.

13 Any questions for LaVon?

14 Okay. Work Group updates,
15 Subcommittee updates, anybody want to volunteer?

16 MEMBER BEACH: Jim, this is Josie. I'll
17 just quickly say that Kansas City Work Group will
18 be meeting in Cincinnati on July 16th and 17th.
19 Half a day on the 16th will be for petitioners to
20 present their issues and hopefully come to some
21 closure on those, and then the Work Group will work
22 on the 17th.

1 We hope to finish up and possibly be
2 real close to finished with our work in July.

3 CHAIRMAN MELIUS: Okay.

4 MEMBER BEACH: And, that's all I have.

5 CHAIRMAN MELIUS: Okay, thank you,
6 Josie.

7 MEMBER MUNN: This is Wanda. I'd be
8 glad to report what's going on the Procedures
9 Review Subcommittee.

10 We did meet on April 28th, a
11 teleconference call, and with a fairly full agenda.
12 We were able to resolve well over a half dozen --
13 actually, I guess, about ten or 12 single findings,
14 closed out OTIB-54, and the two PROCs, procedure
15 findings that we had before us.

16 We spent a large portion of time going
17 through the open items that we had on the PERs that
18 are currently before us.

19 We were successful in resolving
20 probably another half dozen issues for that
21 particular group.

22 We did assign two more PERs for our

1 contractor to review, PERs 53 and 55.

2 And, we are scheduling our next meeting
3 for August 11th. So, we are moving forward well.

4 Reducing the number of open items and
5 items that are in progress, that we are showing on
6 the BRS, and with the exception of a few software
7 glitches there we are handling that portion of our
8 responsibilities as well.

9 So, Procedures is getting done what we
10 think we need to get done.

11 CHAIRMAN MELIUS: Very good, thank you,
12 Wanda.

13 MEMBER CLAWSON: Jim, this is Brad.

14 On Savannah River, which just put out
15 a paper to us on neptunium. I still haven't seen
16 anything on this co-worker model that we've been
17 working on. I'm hoping it will come fairly soon.

18 For Pantex, we still have not received,
19 I believe it was a neutron/photon ratio. I believe
20 that NIOSH is still working on that. Is that
21 correct, Jim? Neton?

22 DR. NETON: Sorry, Brad. Did you ask a

1 question? I was multitasking here.

2 MEMBER CLAWSON: That's no problem. It
3 was on the neutron/photon ratio we discussed out
4 there at Pantex. I believe you guys were going to
5 -- were trying to make it one big one, but now you
6 are going to be dividing it by site?

7 DR. NETON: Well, actually, what we were
8 doing was, we were going to take and go away from
9 the neutron/photon ratio at Pantex and, actually,
10 develop a co-worker model based on just the neutron
11 data by itself.

12 MEMBER CLAWSON: All right.

13 DR. NETON: That document was generated
14 and went through internal review, and at the final
15 stage of review process I, actually, made a comment
16 that required it to go back for a little bit of
17 rework.

18 So, unfortunately, it's my fault, but
19 it's going to take a little bit longer to issue that
20 document. So, all I can say is, it's going to be
21 at least a month or so out from now, and I do
22 apologize for that, but I thought it would be better

1 to regroup and issue it in its best form, you know,
2 rather than just get it out the door quickly.

3 MEMBER CLAWSON: Okay, Jim. I
4 appreciate that. I know it's been kind of on the
5 burner for a while.

6 DR. NETON: Yes, it has been. It's the
7 last real issue at Pantex, if I remember correctly.

8 MEMBER CLAWSON: That is correct.

9 Thanks. That's all I've got, Jim.

10 CHAIRMAN MELIUS: Okay.

11 MEMBER KOTELCHUCK: Dave Kotelchuck.

12 Dose Reconstruction Review, we, at our
13 April 14th meeting, we began review of three of the
14 blinds, that were completed. And, those three
15 were -- none of them were resolved, but will be
16 reported back at our next meeting. I've have some
17 of the details of resolving those on Wednesday, the
18 24th, at 10:30, when we have our next meeting, and
19 we will continue on the blinds for the rest of 17
20 and the blinds for set 20, as I understand are
21 completed, and I would expect that we would get to
22 them at that next meeting on the 24th.

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1 CHAIRMAN MELIUS: And, this is Jim
2 Melius, maybe I can jump in, the Work Group which
3 we just formed on dose reconstruction methods, I
4 guess, review methods, is meeting on June 22nd, two
5 days before the Dose Reconstruction Review
6 Subcommittee is meeting. And, we will be
7 discussing there, you know, different approaches
8 that might be used, and may even have some
9 recommendations for the Dose Reconstruction Review
10 Committee to try out some different -- slightly
11 different approaches or something, in order to
12 still have a number of sets to resolve that have
13 already been reviewed, so how do we go about
14 resolving those.

15 So, we'll have the meeting ahead of
16 time, and we'll be talking more on the 24th also.

17 And then, we've -- our tentative agenda
18 for the July Board meeting has got a longer time
19 period to discuss, with the whole Board, our
20 approach for doing dose reconstruction reviews.

21 So, that will be -- we will try to
22 resolve relatively quickly.

1 MEMBER ANDERSON: This is Andy. We have
2 a review that we just got, and we are in the process
3 of scheduling a teleconference to go over it,
4 probably the end of June, first part of July.

5 CHAIRMAN MELIUS: Okay. Thank you.

6 And, the SEC Evaluation Work Group had
7 a conference call a couple weeks ago, I believe now,
8 which that was -- it was actually Site Profile
9 issues at the Dow Madison facility. I believe we
10 resolved those, there were a couple of issues that
11 Jim Neton was following up on, and I'm not sure that
12 he's heard back from all the Work Group Members yet.
13 He did follow up and send us all an email, but we'll
14 be able to report on those at the July meeting. It
15 will be a relatively brief report, but we can fill
16 everybody in at that time.

17 Others?

18 MEMBER SCHOFIELD: Yes, this is Phil.

19 We have a teleconference on the 8th of
20 July for Idaho National Lab, and at that time,
21 hopefully, we can resolve the issue of the
22 definition of the Class for the SEC for the Chem

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1 Plant, and we can have a recommendation for the full
2 Board when we meet a couple weeks later.

3 CHAIRMAN MELIUS: Actually, Phil, this
4 is Jim, I don't believe we'll be able to settle at
5 the July 8th. It's looking as if a major part of
6 the evaluation of that definition is going to need
7 to wait on some interviews that NIOSH and others
8 will be conducting just before the Board meeting
9 in Idaho. And so, the NIOSH report on that, my
10 understanding now is, we will not receive that
11 until some time after the July Board meeting.

12 MEMBER BEACH: Jim, this is Josie.

13 I thought those interviews before the
14 Board meeting are for Argonne West, not for --

15 CHAIRMAN MELIUS: I've heard both, so I
16 don't know.

17 MEMBER SCHOFIELD: I'm like Josie, I
18 thought those were Argonne West. I'm confused.

19 MR. RUTHERFORD: This is LaVon
20 Rutherford.

21 That is correct, those are for Argonne
22 West. Right now, we anticipate, and we will

1 hopefully get some closure for that Work Group
2 meeting.

3 CHAIRMAN MELIUS: Then people are
4 telling us different things.

5 MR. RUTHERFORD: I will --

6 CHAIRMAN MELIUS: I won't name names,
7 but --

8 MR. RUTHERFORD: -- I will double check
9 with our people internally and see if we can get
10 an email out to the Board.

11 CHAIRMAN MELIUS: Okay. We'll try to
12 figure that one out.

13 Any other Work Group reports, or
14 Subcommittee reports?

15 I'll just go back to Savannah River for
16 a second. You know, that's got issues there that
17 have been pending a long time, and I'd like to
18 understand better what NIOSH's intentions are in
19 terms of dealing with the co-worker models.

20 We have co-worker models that appear
21 to, maybe violate is too strong a word, but they
22 are not consistent with what appear to be our

1 guidelines for co-worker models, certainly, in
2 terms of the mixing incident, routine monitoring
3 data in a single co-worker model.

4 And, I'm not sure where that stands, in
5 terms of NIOSH trying to resolve that, going
6 forward on that, in terms of the co-worker models.

7 So, I know Tim is not on the line, but
8 I don't know if Jim or Stu, if you have any comments.

9 DR. NETON: This is Jim.

10 I don't have any comments on that, other
11 than we have started looking at that, and we have
12 identified there's at least one instance where
13 there's a mixture of incident based and routine
14 monitoring. But, I can't exactly give you the
15 status of where we are.

16 CHAIRMAN MELIUS: Okay. I just urge you
17 to get that moving forward, because it's been a long
18 time on Savannah River.

19 MEMBER CLAWSON: Jim, this is just Brad.
20 If I could comment on one thing.

21 We've been working on these co-worker
22 data models for a long time, and then the added

1 problem with getting information from Savannah
2 River, which is getting harder and harder, I think
3 we really need to look, if it's myself personally,
4 if it's even feasible there.

5 So, I just -- we've been working on this
6 for so many years, and we've got a lot of them
7 presented to us, but they haven't been able to pass
8 it.

9 So, I'd just like to keep that in mind,
10 too, Jim, as we go on with this.

11 CHAIRMAN MELIUS: Okay. So, we've gone
12 through our Work Groups, and, Ted, do you want to
13 speak about the July --

14 MR. KATZ: Yes, sure, thanks Jim.

15 So, for July, I mean, we've discussed
16 one item that's been on there in one form or
17 another, which is -- I was thinking it was just the
18 update on INL, because I was under sort of the same
19 understanding as Jim, as to whether we are ready
20 on the Class Definition.

21 In any event, one way or the other, INL
22 will be on the agenda for July, either for an update

1 or for an actual potential action.

2 And, LaVon mentioned one other SEC that
3 will be on the agenda for sure, which is Carborundum
4 SEC. So, we have that scheduled.

The other potential actions are Rocky Flats and Kansas City Plant. So, I have those on there. This all adds up to, and we have, of course, the session on dose reconstruction review, as Dr. Melius mentioned and a brief update on the co-worker dose model, depending on where we get with the Subcommittee's work.

12 So, this all adds up to about a day and
13 a half, a full day the first day, July 23rd, and
14 a day, at this point, ending, you know, 11:00 a.m.,
15 on the second day, Friday, the 24th.

16 So, for your scheduling purposes, I
17 think that's about where we are. If the INL work
18 ends up being an action versus just an update, we
19 may need a little more time for that. We would push
20 out the time a little bit, but we are looking at
21 a day and a half.

22 || Any questions?

1 CHAIRMAN MELIUS: Okay.

2 MEMBER BEACH: Ted, this is Josie. Can
3 I ask one quick question? I'm sorry.

4 MR. KATZ: Of course.

5 MEMBER BEACH: Do we have a hotel lined
6 up? I've not seen anything, probably because I'm
7 not on my usual email.

8 MR. KATZ: You haven't seen anything,
9 because we haven't signed and sealed a contract.

10 MEMBER BEACH: Okay.

11 MR. KATZ: But, we are working on it, and
12 we are hoping for it to be the newer, whatever line
13 of Marriott it is.

14 MEMBER BEACH: Yes, Residence Inn
15 Marriott?

16 MR. KATZ: Right, that's what we are
17 looking at. That's what it ought to end up being,
18 but we don't have a contract in hand yet.

19 MEMBER BEACH: Okay.

20 CHAIRMAN MELIUS: If not, there's a
21 campgrounds nearby.

22 MEMBER BEACH: Perfect.

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1 CHAIRMAN MELIUS: Bring your fishing
2 rods, Henry.

3 MEMBER ANDERSON: Okay.

4 CHAIRMAN MELIUS: With a license,
5 though, this time. Okay.

6 If there are no other issues to bring
7 up or discuss, we will see everybody, if not on Work
8 Group meetings or calls, in the end of July in
9 Idaho.

10 Is the snow going to melt by then?

11 MEMBER CLAWSON: Maybe not.

12 CHAIRMAN MELIUS: Bring boots.

13 MEMBER CLAWSON: That would be a good
14 idea.

15 CHAIRMAN MELIUS: Okay. Thanks,
16 everybody. Hang onto your generators and stuff,
17 don't lose your equipment again, you know.

18 MR. KATZ: Okay.

19 CHAIRMAN MELIUS: Anyway, see you all in
20 July. Thanks, everybody.

21 (Whereupon, the meeting was concluded
22 at 12:17 p.m.)

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