

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

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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

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URANIUM REFINING ATOMIC WEAPONS EMPLOYERS
(AWEs) WORK GROUP

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FRIDAY
JANUARY 13, 2017

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The Work Group convened via teleconference at 10:00 a.m. Eastern Time, Henry A. Anderson, Chair, presiding.

PRESENT:

HENRY A. ANDERSON, Chair
DAVID KOTELCHUCK, Member

ALSO PRESENT:

TED KATZ, Designated Federal Official

NANCY ADAMS, NIOSH Contractor

DAVE ALLEN, DCAS

JENNY LIN, HHS

JOHN MAURO, SC&A

JIM NETON, DCAS

JOHN STIVER, SC&A

BILL THURBER, SC&A

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

2 (10:01 a.m.)

3 **Welcome and Roll Call**

4 MR. KATZ: Welcome to everybody on the
5 line. It's the Uranium Refining AWE Work Group.
6 And we have a brief agenda today, to deal with maybe
7 wrapping up the Board's review of Hooker Site
8 Profile.

9 And the agenda for today, and the
10 materials related to that agenda, should be posted
11 on the NIOSH website under the Board section,
12 Scheduled Meetings, Today's Date.

13 And you can go there and follow along
14 with the documents that we're talking about, and
15 you're welcome to do that. So, roll call on Board
16 Members who do not have conflicts with the site.

17 Actually, we have three Board Members
18 that are a part of this Work Group. One Board
19 Member's going to be absent, that's Dr. Field. Dr.
20 Anderson chairs it, and Dr. Kotelchuck's one of the
21 Members.

22 And so, we're fine going forward with

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1 the two. So, let's do roll call.

2 (Roll call.)

3 MR. KATZ: It's your agenda, Dr.
4 Anderson.

5 **SC&A Review of NIOSH Technical Basis Document**

6 **for Hooker Electorchemical (Rev #3) and**

7 **NIOSH Response**

8 CHAIR ANDERSON: Yes, thanks. On this
9 review of the only open part of the review to
10 discuss is number four, which had to do with the
11 residual period and estimating doses from the
12 surface contamination.

13 There were some issues initially raised
14 by SC&A. I don't know if one of you want to review
15 this technical issue here.

16 DR. MAURO: This is John Mauro. I
17 would suggest Bill Thurber. Bill, you're on the
18 line.

19 MR. THURBER: I am.

20 DR. MAURO: We both worked on it. I
21 did read it over again yesterday, and I'm familiar
22 with it. But I think you're closer to it than I

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1 am.

2 If you want to go ahead and take a run
3 at it, and I'll help out where I can?

4 MR. THURBER: As you said, the only
5 open issue was our finding number four. And our
6 concern there was -- at a couple of prior meetings
7 of the Work Group, we had a considerable discussion
8 about the applicability of TIB-009 to the residual
9 period.

10 And there was concern expressed on all
11 sides that that was -- whether or not that was an
12 appropriate approach was open for discussion.
13 Some of us, myself included, went away from those
14 discussions with an opinion --

15 With the impression, rather, that
16 TIB-009 should not be used. And in our review in
17 November, we pointed out some of the language from
18 the transcript that we felt supported our
19 understanding.

20 But NIOSH responded and said, no, SC&A,
21 you didn't really understand exactly what we were
22 saying. And we think that it is appropriate under
23 certain circumstances to use TIB-009.

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1 And we took that position under
2 advisement. We looked at NIOSH's arguments on
3 which that position was based. And the gist of the
4 argument was that, if you used TIB-009 during the
5 residual period, you should not consider
6 resuspension.

7 And so what NIOSH proposed was, you take
8 the airborne concentration at the end of operations
9 and you extend that through the residual period.

10 Now, obviously, that's very
11 conservative because the concentrations are going
12 to decay. Certainly, and NIOSH said this
13 categorically, that the airborne concentrations
14 will decay very rapidly.

15 And, therefore, the real concern during
16 the residual period is surface contamination,
17 which can then be via some hand-to-mouth transfer
18 mechanism result in ingestion.

19 And so, as I said, this is clearly a very
20 bounding approach, very conservative. And the one
21 -- a couple of comments that we made about the
22 approach was that the TIB model, as you may or may
23 not recall, consists really of two parts.

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1 There was one part involved, basically
2 hand-to-mouth transfer. And the second part
3 involved deposition -- airborne deposition.
4 Deposition into a cup of coffee.

5 And, obviously, if you take the
6 position that the airborne contamination will die
7 off very quickly during the residual period, then
8 that mechanism really goes away.

9 So, the bounding approach taken by
10 NIOSH is even more so, because only half the
11 contribution that you calculate using the TIB
12 procedures is going to be present during the
13 residual period.

14 Having said all of that, we are okay
15 with using this as a bounding mechanism. And the
16 only caveat that we included in our short write-up,
17 from the end of last year, was that this approach
18 is fine, except when it creates a situation where
19 compensation would be considered.

20 And it's just way too conservative to
21 be used in compensation rewards. So, that kind of
22 summarizes our position on this.

23 CHAIR ANDERSON: Just let me -- I'm

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1 trying to sort through all of my documents here.
2 And one of you may know this, since I haven't been
3 able to quickly find it, there was no cleanup after
4 they ceased operations?

5 I mean, because the issue here was
6 re-entrainment as well. So, if you have surface
7 contamination, and hand them out from that surface
8 contamination, you can get re-entrainment, which
9 would then fall into the coffee cup.

10 Obviously, it wouldn't be as high a
11 concentration as if you'd had operations going on
12 and there's kind of a new source being added to the
13 air on a continuing basis.

14 So, your issue here of air will quickly
15 drop down if there's re-entrainment. It obviously
16 won't get to the 50 percent, I wouldn't think. But
17 does that play into this at all? Or was there
18 cleanup to the extent that it wouldn't be
19 particulate readily re-entrained?

20 MR. THURBER: This is Bill Thurber
21 again. No, there was no cleanup involved.
22 Certainly, there could be some residual
23 resuspension, and some of that resuspended

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1 airborne material could deposit in the
2 hypothetical coffee cup.

3 But that contribution would be much
4 smaller than what you calculate using the airborne
5 concentration at the end of operations, which is
6 what NIOSH has proposed.

7 CHAIR ANDERSON: Right. Okay, that's
8 what I recall.

9 MEMBER KOTELCHUCK: This is Dave. Let
10 me ask, I follow you up to the point that you said,
11 well okay TIB-009 is okay. And what it leaks out
12 is minimal in this case.

13 But then you said, but you can't use it
14 for compensation purposes. And that I did not
15 understand.

16 MR. THURBER: Well, the reason I said
17 that is that this model is extremely conservative
18 because it assumes that the concentration you
19 calculate from TIB continues in perpetuity, if you
20 will.

21 There is no decay in the airborne
22 concentration during the residual period, which is
23 -- so it's unrealistic and it's conservative from

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1 that point. And it's additionally conservative
2 from the point that one of the two mechanisms
3 obviously is significantly diminished by the
4 physical situation.

5 MEMBER KOTELCHUCK: Right. So, what
6 you're saying is that --

7 CHAIR ANDERSON: It's an overestimate.

8 MEMBER KOTELCHUCK: Right, right.
9 It's an overestimate. On the other hand -- right.
10 So, it's an overestimate.

11 MR. THURBER: Yes.

12 DR. MAURO: This is John. I can help
13 a little bit here.

14 MEMBER KOTELCHUCK: Sure.

15 DR. MAURO: Normally, what we expected
16 to see is, when you get into the residual period
17 and you're concerned with the inhalation or
18 ingestion pathway -- I think this goes toward
19 ingestion -- what you would do -- and this is
20 OTIB-009. This is classic OTIB-009. You assume
21 that there is -- you're assuming that you're
22 continuously generating an aerosol during
23 operation.

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1 And that's settling out and creating a
2 film on the surface. And, normally, what we expect
3 to see in a calculation like this is, okay, that
4 would be the activity that's on the surface.
5 There's no longer any new airborne activity being
6 produced and ascended.

7 MEMBER KOTELCHUCK: Right.

8 DR. MAURO: But now you do have this
9 surface contamination. And the way in which NIOSH
10 typically addressed this, under OTIB-070 -- this
11 is what we were expecting to see -- is that, okay,
12 you start with that activity on the surface.

13 But it's going to be declining at a rate
14 of .00067 per day, based on empirical data. So,
15 that activity on the surface is actually going to
16 decline.

17 And then, from there, you could model
18 the hand-to-mouth behavior for ingestion. And
19 this is all laid out in guidance, it's actually in
20 reg 5512. NIOSH has adopted this basic strategy.
21 We have deliberated on that, and everything's fine.
22 So, we were expecting to see that, okay? We've got
23 your beginning activity, and then it's going to

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1 decline.

2 MEMBER KOTELCHUCK: Right.

3 DR. MAURO: What NIOSH actually did is
4 say, listen, there's an ingestion activity going
5 on during operations that is high. The way in
6 which they do it, they key it back to the airborne
7 activity.

8 And there was a lot of discussion on
9 that. So, you have a relatively high intake, of
10 course, of inhalation, because you're operating in
11 these aerosols.

12 And you also have smaller but also an
13 ingestion going on continuously. But, as soon as
14 operation ends, all you really have left is this
15 residual activity.

16 And then it becomes just this
17 hand-to-mouth activity, which will be declining in
18 time because of the natural attenuation that occurs
19 once you stop producing it.

20 Now, what NIOSH did was they said, well
21 we're going to simplify it. It was surely an
22 efficiency, as I understand it. This is our
23 takeaway.

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1 Really, an efficiency method.
2 Whatever the ingestion rate was during operation,
3 we're going to assume it basically continues right
4 into --

5 MEMBER KOTELCHUCK: Right.

6 DR. MAURO: Which is conservative.
7 It's actually going to decline.

8 MEMBER KOTELCHUCK: Right, which is
9 conservative, meaning claimant-friendly.

10 DR. MAURO: Claimant-friendly. You
11 can overestimate.

12 MEMBER KOTELCHUCK: Yes.

13 DR. MAURO: So, we understand that now.
14 There was another -- in fact, we talked about it.
15 there was another approach that could have been
16 used, that would have been used, if they actually
17 cleaned up.

18 MEMBER KOTELCHUCK: Right, right.

19 DR. MAURO: It's a completely
20 different approach that's been adopted.

21 MEMBER KOTELCHUCK: With the DuPont.

22 DR. MAURO: With DuPont, exactly.
23 DuPont Deepwater.

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1 MEMBER KOTELCHUCK: Yes.

2 DR. MAURO: Which was using DuPont
3 Deepwater. They used it for --

4 MEMBER KOTELCHUCK: Right.

5 DR. MAURO: I forget the exact units,
6 but it's all there now.

7 MEMBER KOTELCHUCK: Yes.

8 DR. MAURO: And that approach is a good
9 approach, when the cleanup is done right when you
10 terminate operations. But there's still some
11 residue.

12 And so, they could use that
13 ten-to-the-minus-four approach. So, really what
14 we have is -- and that was one of our questions for
15 you. Why didn't we use the DuPont Deepwater
16 approach?

17 And the answer was, well there wasn't
18 -- in DuPont Deepwater, there was cleanup. But,
19 at the Hooker, there wasn't, right? So, what we're
20 going to simply do is, whatever the ingestion rate
21 was during operations, we're going to assume the
22 ingestion rate just continues, which is an
23 overestimate.

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1 And that's fine, because it's always
2 fine to use efficiency methods to simplify the
3 calculation. But our only concern is that, well,
4 you cannot really compensate a person using what
5 would be considered to be an overestimate.

6 MEMBER KOTELCHUCK: Yes. Right,
7 right, right.

8 DR. MAURO: So, it wouldn't be fair to,
9 you know, to do that. So, our only real endpoint
10 on all of this was that this is fine, as long as
11 the person isn't being compensated.

12 And so, that's how we sort of end there.

13 MEMBER KOTELCHUCK: Oh, okay, that's
14 clear. Thank you.

15 CHAIR ANDERSON: By and large, these
16 estimated doses are going to be pretty low?

17 MEMBER KOTELCHUCK: Yes.

18 DR. MAURO: No matter which way you do
19 it, by the way, the contribution from the residual
20 period from ingestion is always very low.
21 Although, I think in this case, that was the only
22 pathway.

23 I think this person's exposure was only

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1 during -- am I right, Bill? Or did I miss that one?
2 In other words, he had no exposure from the --

3 MR. THURBER: No, there is other
4 exposure.

5 DR. MAURO: There was? Okay.

6 MR. THURBER: The issue came about
7 because, in the original Site Profile, the
8 ingestion pathway during the residual period had
9 not been considered.

10 DR. MAURO: Oh, it wasn't even
11 considered at all?

12 MR. THURBER: No, it wasn't. So, this
13 was additive. And it's certainly true that these
14 contributions are very small. Our only concern is
15 that we're not setting precedence that are
16 misunderstood, and so forth.

17 MEMBER KOTELCHUCK: Right, right.
18 That, to me, clears it up. And, Henry, my feeling
19 is that, with the two parties agreeing, it seems
20 to me the issue is resolved.

21 CHAIR ANDERSON: Yes, I would agree.

22 MEMBER KOTELCHUCK: Yes.

23 CHAIR ANDERSON: I think the caveat --

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1 I mean, it's unlikely but potentially there would
2 be somebody that had significant prior exposure
3 that got up very, very close to the hot point.

4 And this little bit could put him over,
5 and then you'd want to --

6 MEMBER KOTELCHUCK: Yes.

7 DR. MAURO: Exactly right.

8 MEMBER KOTELCHUCK: Exactly, I see
9 that. Right, right. So, do we want to -- I mean,
10 do we want to put --

11 MR. ALLEN: This is Dave Allen.

12 MEMBER KOTELCHUCK: Yes?

13 MR. ALLEN: Can I say one thing first?

14 MEMBER KOTELCHUCK: Sure.

15 MR. ALLEN: About that caveat part.

16 The whole history on this one is -- just so you know
17 the history here -- originally, when we were
18 writing -- I mean, not originally, but at one
19 point, we were writing or revising -- I don't recall
20 which -- this TBD -- it was at the time that the
21 depletion factor that John and Bill have been
22 talking about, on the rate of decline of the
23 contamination.

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1 That rate was very much in debate. And
2 this particular site, that ingestion rate was very
3 small -- it's pretty trivial -- so, we ended up
4 writing a TBD where it just didn't decline.

5 And, since that time, this went through
6 a review board with the Secretary's Office. And
7 the Secretary's letter disagreed with us and the
8 Board, and said that it should be an SEC.

9 But they also, in that letter, stated
10 that we should do residual, in accordance with that
11 version of the TBD. So, at that point, it kind of
12 felt like my hands were tied and I'm stuck doing
13 whatever we were doing in that version, whether it
14 pays or not pays.

15 And, as you mentioned here, it's pretty
16 trivial. So, even if that's enough to push
17 somebody over, it's -- they were close enough. You
18 know?

19 CHAIR ANDERSON: Yes, I was going to
20 say, it's well within a rounding error.

21 MR. ALLEN: So, I mean, I just want to
22 make sure we don't get a caveat in there saying you
23 can't pay anybody by this. I don't think it will

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1 ever happen, frankly.

2 But I really don't want that kind of
3 caveat in there when we get this right -- thing from
4 the review panel that basically said, that's how
5 we should do it. And the Secretary agreed with it.

6 MEMBER KOTELCHUCK: Very good. And, by
7 this discussion, we're putting it on the record.

8 MR. ALLEN: Yes.

9 MEMBER KOTELCHUCK: Are we not?

10 MR. ALLEN: Yes, I guess we are.

11 MEMBER KOTELCHUCK: Yes, good.

12 DR. MAURO: I'm sorry to interrupt.
13 This is John. You just threw me a little bit of
14 a curveball, and I want to make sure that I
15 understand.

16 The method that you're using when
17 you're saying that the ingestion rates just
18 continues without, you know -- that would be a
19 bounding approach.

20 Are you saying that that can be used in
21 a case that's compensated? I think one of the
22 philosophies has always been -- I understand that
23 we're talking about a trivial change.

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1 But let's say this case was being done
2 today. And the outcome of it was that the person
3 was compensated. Would you feel that it was okay
4 to leave it on the record, in this current form,
5 using the current method that you have adopted for
6 adjusting?

7 MR. ALLEN: I think there are a number
8 of cases out there with TBDs that are, especially
9 prescriptive ones, where we have been conservative
10 in lieu of research -- especially on something that
11 is trivial.

12 DR. MAURO: Yes.

13 MR. ALLEN: Yes, in those situations,
14 we would pay somebody. We could use prescriptive,
15 and we would do -- it comes out however it comes
16 out.

17 In this particular case, we got the
18 research done and we could decline this, and
19 normally would. But, I think my hands are tied as
20 a result of the review panel.

21 DR. MAURO: I'm sorry, let me see if I
22 understand this. So, if you were doing it today,
23 though, would you still do it the same way regarding

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1 the residual period?

2 MR. ALLEN: Yes, we would do it by the
3 TBD, which is a constant throughout the residual
4 period.

5 DR. MAURO: And you would feel that
6 there would not be any -- and I'm not disputing at
7 all, I just want to make sure I understand. The
8 fact that you would not be using the more realistic
9 method, where the activity declines, that would not
10 represent any type of contradiction to not using
11 bounding approaches for cases that are being
12 compensated?

13 Even though this particular bounding
14 approach only applies to the residual period, and
15 it really wouldn't change anything. But you'd
16 still -- and, because of that, you would have no
17 problem still doing it this way if you were to do
18 that today?

19 MR. ALLEN: Well, we would follow the
20 TBD.

21 DR. MAURO: You would follow the TBD.

22 MR. ALLEN: Right.

23 DR. MAURO: Which has -- and the TBD

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1 currently has this same treatment. So, in this
2 regard -- so, if I understand it correctly -- I
3 didn't check the TBD. The TBD has this same
4 approach where you just continue the ingestion rate
5 going constant? Is that how this particular TBD
6 is written?

7 MR. ALLEN: Yes, it is.

8 DR. MAURO: Okay. And you would not
9 change it. And I would agree that this does not
10 represent a circumstance where you'd ever find
11 yourself at that fractional percentage, close to
12 the compensation.

13 The fact that you're being conservative
14 on this aspect, would end up with a compensation
15 that otherwise would not be compensated, if you're
16 following me? Do you understand my question?

17 MR. KATZ: John, so, what Dave has said
18 is that it's theoretically possible that you could
19 have a case where the vast majority of the doses
20 from other experiences --

21 DR. MAURO: Yes.

22 MR. KATZ: And this little bit could
23 put them over.

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1 DR. MAURO: Yes.

2 MR. KATZ: And he's saying, in that
3 case, that will be fine, we will still compensate
4 that person. We are beholden to use this method
5 because the Secretary's put the stake in the ground
6 in terms of applying this method.

7 DR. MAURO: Even though it's not the
8 way you would do it at other sites?

9 MR. KATZ: Right.

10 MR. THURBER: That's my question. For
11 clarification, this is only for Hooker?

12 CHAIR ANDERSON: It's been mandated
13 for this site.

14 MR. KATZ: Yes, this is only for
15 Hooker. It's only for this very unusual
16 situation, where there was an SEC Class which, upon
17 appeal, was granted by the Secretary. And the
18 Secretary's determination, in effect, was that she
19 put a stake in the ground about applying this method
20 for the residual period.

21 So, we're complying with the
22 Secretary's position, since the Secretary has the
23 ultimate policy measure -- that we'll use this

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1 method.

2 DR. MAURO: I gotcha, I understand now.
3 I just needed a little help with that. Thank you.

4 MR. KATZ: Yes, sure.

5 MEMBER KOTELCHUCK: So, Henry, would
6 it now be appropriate to say that our Working Group
7 accepts that this is resolved? Or, that the
8 Working Group considers this issue resolved?

9 CHAIR ANDERSON: Yes, I would say so.

10 MEMBER KOTELCHUCK: Okay, I so make
11 that motion.

12 CHAIR ANDERSON: I think that is a
13 motion.

14 MEMBER KOTELCHUCK: That is a motion.

15 CHAIR ANDERSON: I'll second it.

16 MR. KATZ: Now you need to discuss it.

17 CHAIR ANDERSON: Right.

18 MEMBER KOTELCHUCK: Well, it seems to
19 me -- I mean, in this case, this is a mandated --
20 this is a mandated resolution. Even, it seems to
21 me -- even if SC&A continued to disagree, which they
22 do not -- they agree now. But if they did, we would
23 still be mandated to do it, because the Secretary

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1 has so defined it. And, for this case, there is
2 no question that this method shall be used. And
3 we're using it.

4 MR. THURBER: This is Bill Thurber. I
5 would suggest that that specific -- that there be
6 a specific reference to this decision included in
7 the minutes, so that when someone's, in the future,
8 trying to track this down, they can pinpoint the
9 source.

10 MEMBER KOTELCHUCK: Well, by our
11 speaking about it -- and this is being recorded,
12 right? This is on the record now. I don't believe
13 we need to add it to our resolution, that the
14 Working Group considers this point resolved.

15 And we've agreed -- both parties agree
16 -- technical parties agree that this is the way that
17 we're going to do it. And so we've certainly
18 mentioned that's the Secretary's mandate here.

19 CHAIR ANDERSON: I mean, we're making
20 a statement that's -- it is a true statement that
21 it is a conservative approach, a systematically
22 applied conservative approach.

23 MEMBER KOTELCHUCK: Yes.

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1 CHAIR ANDERSON: And there might be
2 other approaches that would be less conservative
3 that would also be acceptable. But, in this
4 instance, we're comfortable using it because it's
5 also mandated.

6 MEMBER KOTELCHUCK: Right.

7 CHAIR ANDERSON: So, is that okay,
8 folks?

9 DR. MAURO: This is John. It's fine.

10 MR. THURBER: Yes.

11 CHAIR ANDERSON: And I don't think we
12 -- the impact of it is relatively unlikely to occur
13 going forward. But I think it's important to have
14 it in the books.

15 MEMBER KOTELCHUCK: Agreed.

16 CHAIR ANDERSON: So, all in favor?

17 (Chorus of ayes.)

18 CHAIR ANDERSON: I don't know, do you
19 want to -- I suspect Bill will feel the same way.
20 Do we need to run it by him as well?

21 MEMBER KOTELCHUCK: No.

22 MR. KATZ: No, you don't.

23 MEMBER KOTELCHUCK: No, because we

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1 have a quorum.

2 CHAIR ANDERSON: Okay, we're good to go
3 then.

4 MEMBER KOTELCHUCK: Okay, very good.

5 MR. KATZ: Right. And, Andy, you
6 already gave most of the Hooker review at the last
7 Board meeting. So, do you need any support? Or,
8 are you fine with reporting out on this?

9 CHAIR ANDERSON: Yes, I don't think
10 we're going to have a PowerPoint or anything. Yes.

11 MR. KATZ: Yes.

12 CHAIR ANDERSON: I'm just going to say,
13 we talked about it. And I can also mention the
14 issue with the Secretary.

15 MR. KATZ: Sure.

16 CHAIR ANDERSON: But we discussed and
17 resolved it and it's appropriate to use it -- that
18 it is a conservative approach. Although we could
19 have considered other approaches, because of the
20 Secretary's indication that we are to use this
21 approach in this instance, we're comfortable with
22 that.

23 MR. KATZ: Okay, that sounds good.

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1 MEMBER KOTELCHUCK: All right.

2 CHAIR ANDERSON: Anything else, for
3 the good of the order?

4 MR. KATZ: No, I think that's all good.

5 CHAIR ANDERSON: Okay. All right,
6 thanks a lot.

7 **Adjourn**

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

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