

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

+ + + + +

WORK GROUP ON SEC ISSUES

+ + + + +

WEDNESDAY
APRIL 18, 2012

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The Work Group convened telephonically, at 1:30 p.m., James M. Melius, Chairman, presiding.

PRESENT:

JAMES M. MELIUS, Chairman
JOSIE BEACH, Member
GENEVIEVE S. ROESSLER, Member
PAUL L. ZIEMER, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official
TERRIE BARRIE
STU HINNEFELD, DCAS
JENNY LIN, HHS
JOHN MAURO, SC&A
DAN MCKEEL
JIM NETON, DCAS
LAVON RUTHERFORD, DCAS
JOHN STIVER, SC&A

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

2 1:35 p.m.

3 MR. KATZ: Okay, it's about time,
4 so let's get started with roll call. It's the
5 Advisory Board on Radiation and Worker Health,
6 it's the SEC Issues Work Group.

7 (Roll call.)

8 MR. KATZ: Okay then, as I said,
9 the agenda's posted on the website. It's very
10 simple, one issue. And Jim, it's your agenda.

11 CHAIRMAN MELIUS: Welcome,
12 everybody. And what we had talked about at our
13 last Board meeting when we were discussing the
14 implementation of NIOSH's ten year review
15 recommendations, one of those recommendations
16 had to do with developing a definition, at
17 least an operational definition, for
18 sufficient accuracy, which has been an issue
19 that's come up repeatedly in the Board's
20 review of the SEC evaluations.

21 And we were a little unclear what
22 was the best place within the Board, how the

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1 Board should approach this. And so, really
2 what I want to do, and I don't expect this to
3 be a very long conference call today, but is
4 for us to see where NIOSH is in terms of
5 working on this issue.

6 And secondly then, talking to some
7 of the Work Group about how we might approach
8 it and who should be involved from the Board
9 or if there's anything we want our contractor
10 to start working on at this point in that.
11 So, Jim Neton, do you want to let us know
12 where you are with this issue?

13 DR. NETON: I could. I was hoping
14 Stu might take the lead on that. Stu, are you
15 on the phone yet? Okay.

16 CHAIRMAN MELIUS: Stu's decided
17 you are.

18 DR. NETON: I guess so. We have
19 started, as part of our matrix of these action
20 items that we've developed out of the ten year
21 review, and it was a two part approach to
22 this.

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1 One is to establish a review
2 matrix looking at previous SEC decisions for
3 examples of how past decisions were made. And
4 that might inform us as to where we currently
5 stand with sufficient accuracy, at least from
6 a case history perspective.

7 And then from that we were going
8 to develop a series of paragraphs to define
9 some aspects of a definition, based on what we
10 gleaned from where we think the case history
11 informed us.

12 That's being worked on. But,
13 honestly, I have not been doing that
14 personally. I'm not familiar with where we
15 are status-wise. But that's the approach that
16 we've adopted.

17 CHAIRMAN MELIUS: Who's handling
18 that for NIOSH, it's LaVon or Stu?

19 DR. NETON: Stu had the action
20 item on the matrix. I'm not sure who would
21 have been doing that.

22 MR. RUTHERFORD: I can up-date it.

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1 This is LaVon, I can up-date it a little bit.
2 We have pretty much pulled together most of
3 the decisions from previous SECs. And we
4 actually had already had that in place. So
5 we've got a pretty good start on that portion
6 of it.

7 The other portion of it, the
8 paragraphs, I know nothing about that at this
9 point. And I can tell you the matrix itself,
10 with past decisions, is well on its way.

11 CHAIRMAN MELIUS: Well, LaVon, I
12 should tell you that when I talked to Stu the
13 other day about something else we talked very
14 briefly about this meeting. And he threw you
15 in also. So I didn't hear you in the
16 background or I would have put you on the spot
17 first.

18 MR. HINNEFELD: Dr. Melius, this
19 is Stu Hinnefeld.

20 CHAIRMAN MELIUS: Oh, yes, okay.

21 MR. HINNEFELD: Time got away from
22 me for a little bit there. I didn't realize

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1 it was 1:30, I'm sorry.

2 CHAIRMAN MELIUS: That's okay. We
3 started more quickly than we usually do.
4 LaVon or Stu, whoever, Jim, do you have a time
5 table for when this matrix might be available?

6 MR. RUTHERFORD: I'll jump in on
7 this, Stu. I think the matrix itself, that
8 with the past decisions, that will be
9 available, I would say, probably by the Board
10 meeting, close to the Board meeting anyway.

11 CHAIRMAN MELIUS: Okay.

12 MR. RUTHERFORD: Because, to be
13 honest with you, we ran with this. The
14 decisions that we made on previous SEC
15 petitions, we pulled them together into a SEC
16 petition matrix a long time ago.

17 It's just now we're going through
18 trying to determine, we need to determine
19 whether the details there, to really see our
20 decisions that were made, as well as we need
21 to for this.

22 So I'm going to work with Stu and

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1 Jim on that, to take a look at that, and to
2 see if we need to pull in more detail or not.

3 CHAIRMAN MELIUS: Personally, I
4 think that's a good way of starting on this.
5 Because I think that it would allow you to
6 classify the decisions and see, in what
7 circumstances, how the issue of sufficient
8 accuracy comes up in terms of making SEC
9 decisions, both from the NIOSH perspective as
10 well as the Board.

11 And again, I don't know where you
12 are with it. But it might be interesting to
13 identify where the basis for the SEC decision
14 recommendation by NIOSH, and then if the Board
15 didn't agree with that decision, where were
16 the issues for the Board. And from what cases
17 was sufficient accuracy a factor in the
18 Board's disagreement with NIOSH?

19 And otherwise it's usually very
20 straight forward because there's usually a
21 history. And there's more information that
22 comes up and it's complicated. But it would

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1 seem to me that would help to identify where
2 we're having the most difficulty.

3 MR. HINNEFELD: This is Stu. If I
4 could just offer, the volume of the material
5 is a difficult thing here and the
6 understanding in a particular case,
7 particularly where we've had one opinion and
8 the Board had a different opinion about
9 feasibility of dose reconstruction.

10 That sometimes takes a lot of
11 careful study to really remember and pull back
12 up and summarize the heart of the issues
13 there.

14 And so it's a little time
15 intensive to, once we've got these things
16 entered, it's a little time intensive to
17 really understand and put some sort of
18 interpretation on each of these. So that's
19 the difficult part about this.

20 CHAIRMAN MELIUS: I can see that.
21 And I'll even think that, even before you've
22 reached the interpretation section, because

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1 even where you've identified the broad
2 outlines of where there was a difference, it
3 would be helpful to just discuss those.

4 Because your recollection may
5 differ from ours and other factors. I mean,
6 these are complicated decisions. But I think
7 having the matrix also allows you to go back
8 and say, well, this is where we agreed and
9 this is a similar situation. What's the
10 difference between the two?

11 MR. HINNEFELD: Right.

12 CHAIRMAN MELIUS: And I think it
13 would be helpful. Of course, other Work Group
14 Members have any comments on that?

15 MEMBER BEACH: Jim, this is Josie.
16 The one thought that really comes to mind is
17 having a really usable report. Because I
18 think, like Stu said, this is going to be a
19 lot of volume. So just having it in a way
20 that we can go through it is going to be
21 important.

22 MEMBER ROESSLER: This is Gen. I

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1 think this matrix that they're putting
2 together is extremely important because I
3 think one of the things that we have to look
4 at is the uniformity or consistency of
5 decisions.

6 And in order to do that, we
7 certainly have to go back in time and look to
8 see, first of all, if they were consistent
9 from one place to another and then whether we
10 can derive something to apply that consistency
11 to the future.

12 CHAIRMAN MELIUS: Yes, and what
13 factors went into how the decision was made
14 from one incidence to another. Paul, do you
15 have any comments?

16 MEMBER ZIEMER: Yes. One thing
17 that I'm wondering is once we've done that,
18 and that certainly will help us understand
19 those issues, but at some point it might turn
20 up, then, to be helpful if there's a
21 formalization of what we actually mean.

22 It turns out to be very difficult

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1 because the accuracy that we're talking about
2 here is quite different from the usual
3 definition of accuracy in mathematics,
4 particularly since we had the one side of the
5 number is based on bounding.

6 And the other side of the number
7 you can't go below what you think the true
8 value is. So it's an interesting concept from
9 that point of view.

10 But it would be good if we can go
11 from seeing what we've done to formalizing, in
12 some way, what we really mean so that we can
13 compare future decisions against something
14 that's a little more like a gold standard
15 versus an intuitive.

16 CHAIRMAN MELIUS: Yes. I think
17 you have not only a little different approach
18 or use of accuracy and then you have the
19 qualifier in there of sufficient, which
20 loosens it up.

21 MEMBER ZIEMER: What is it that
22 makes it sufficient in this application.

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1 CHAIRMAN MELIUS: Yes.

2 MEMBER ROESSLER: Jim, this is Gen.
3 I have an additional couple other thoughts.
4 As I think about sufficient accuracy, and
5 doing it properly, I think back to when this
6 whole program was put into place.

7 And whoever wrote this must have
8 had some idea as to what that meant. And I
9 don't even know who that was. But can we
10 elicit some of that background information to
11 see whether, in fact, we're following through
12 on what the intent of the program was.

13 MR. HINNEFELD: We do know the
14 author and I think we could get her to provide
15 us that kind of information. If you like that
16 in an oral discussion at some meeting at some
17 point or --

18 MEMBER ROESSLER: I'm not talking
19 about the ten year review, I'm talking about--

20 MR. HINNEFELD: The ten year review
21 author?

22 MEMBER ROESSLER: Pardon?

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1 MR. HINNEFELD: Is that who you're
2 talking about?

3 MEMBER ROESSLER: No, I'm talking
4 back at the beginning --

5 MEMBER ZIEMER: The original.

6 MEMBER ROESSLER: -- when the
7 program was put into place. Somebody sat down
8 and said here's how we're going to do it. And
9 then there's probably a case where you cannot
10 calculate dose and then came up with this
11 sufficient accuracy terminology.

12 I'm just wondering what the writer
13 or the writers of that original document
14 that's in the rule, what their thought was as
15 to how that should be done or what that means.

16 MR. HINNEFELD: You're talking
17 about the language that's in the rule then,
18 the --

19 MEMBER ROESSLER: Yes.

20 MR. HINNEFELD: -- regulation?

21 CHAIRMAN MELIUS: This is Jim
22 Melius. And Jim Neton, Paul and others, jump

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1 in on this. But there's a sufficient accuracy
2 was in the law. And I don't believe that
3 there's any background, at least helpful
4 background, on that in terms of Congressional
5 intent or other language that helps to
6 interpret that.

7 And way back when the Board was
8 first meeting and NIOSH was developing the
9 regulations on SECs and dose reconstruction,
10 we had fairly extensive discussions on this
11 issue and, I guess, how to implement it would
12 be a fair way of putting it.

13 And I know that NIOSH struggled
14 with that also, coming up with what was a way
15 of making that operational for the purposes of
16 making SEC evaluations, and really came up
17 with the bounding, that became at least part
18 of what was making that definition
19 operational.

20 But then we ended up with how to
21 then interpret what a plausible bound was.
22 And so we've, I think, gone back and forth

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1 interchangeably between is it a plausible
2 upper bound or it's a surrogate for, in our
3 discussions, although it's in the regulation,
4 for sufficient accuracy.

5 So I hesitate to claim that our
6 initial discussions would be helpful now but
7 they might be. It's been obviously a long
8 while. It's ten years. And I certainly
9 haven't gone back and looked at those
10 discussions.

11 MEMBER ROESSLER: It might be good
12 to revisit them if we could find them.

13 CHAIRMAN MELIUS: They're there on
14 our website.

15 MEMBER ROESSLER: But to locate the
16 right spot.

17 MS. LIN: Dr. Melius, this is Jenny
18 Lin with HHS.

19 CHAIRMAN MELIUS: Yes?

20 MS. LIN: I think what you're
21 asking in terms of the regulatory history, I
22 think the very first place that we should look

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1 at is the regs themselves and then going back
2 to look at the reg's preamble, the intent
3 language of what the Agency has intent, the
4 sufficient accuracy to mean.

5 And it actually does have a
6 definition in there. I think the question the
7 Work Group has tried to answer is a practical
8 application of that term.

9 So I'll be happy to provide an
10 excerpt from the preamble because it's a more
11 definitive history of the regulation on the
12 record as opposed to seeing individual authors
13 opinions of what that sufficient accuracy
14 actually means. So I'll be happy to provide
15 that to the Work Group and to the Agency as
16 well.

17 CHAIRMAN MELIUS: But, Gen, you
18 weren't involved then. But you should know
19 that, if I recall correctly, the Board's
20 comments on those regulations were quite
21 critical, particularly in the fact that you
22 didn't have a adequate definition of

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1 sufficient accuracy.

2 MEMBER ROESSLER: I think,
3 actually, I've been involved since the
4 beginning. But that's been ten years and I
5 don't remember that.

6 But I think if Jenny can provide
7 what she's just suggested, of course then the
8 practical application of the term is what we
9 can get some hints from by looking back at the
10 Board's discussions of it.

11 CHAIRMAN MELIUS: Yes, I guess what
12 I was recommending was that there's their
13 discussions. And I think there were two
14 attempts at the regulations and that there
15 were a set of Board comments, plus some
16 individual comments on the regulations, that
17 would be useful to review again. Obviously,
18 after ten years I think it changes but it
19 maybe helpful as background.

20 MEMBER ROESSLER: Plus, we've
21 learned a lot in the ten years that we've been
22 doing this. So it might be beneficial to look

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1 at that again.

2 CHAIRMAN MELIUS: At least we hoped
3 we've learned something, right? Anybody else
4 have comments or thoughts on that?

5 DR. MAURO: Dr. Melius, John Mauro.
6 I just had another thought. Early on, when we
7 were on the Board, we were asked to write a
8 procedure for doing SEC Petition Evaluation
9 Report reviews, which is quite detailed.

10 And it was reviewed extensively by
11 the Board. And it has a lot of language in
12 there regarding completeness of data, accuracy
13 of data, that sort of thing.

14 Basically it's the test that we use
15 when we do a scientific review of
16 completeness, et cetera. There may be some
17 language in there that will be helpful, also
18 as a source of information to shed light on
19 how we've been coming at this problem in the
20 past.

21 CHAIRMAN MELIUS: It's a good
22 point, John. And I think it comes to wrestle

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1 with the plausibility. I interpret a
2 plausible upper boundless was one of the
3 issues.

4 But it doesn't provide a direct
5 definition, or a criteria, as much as a set of
6 what needs to be evaluated and a procedure for
7 that evaluation.

8 DR. MAURO: I could say that
9 procedure, which goes back a ways, does not
10 talk about plausibility. Plausibility
11 actually emerged when we worked on the
12 surrogate data question that became front and
13 center, which was quite a bit later than when
14 we wrote the procedure for the SEC reviews.

15 CHAIRMAN MELIUS: Any other
16 comments, Paul or Josie?

17 MEMBER ZIEMER: No, I think it'll
18 be helpful to gather this information
19 together. And we can proceed to determine
20 whether it's really feasible at some point to
21 develop a more formalized definition or
22 structure against which we measure future

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1 decisions.

2 CHAIRMAN MELIUS: Yes, I just want
3 to make sure we were moving this along and not
4 ignoring it. And I think waiting wasn't
5 something we should be doing and --

6 MEMBER ZIEMER: No, I think we're
7 waiting for NIOSH to complete their first step
8 on this, right?

9 CHAIRMAN MELIUS: Yes, that's what
10 it sounds like. And I don't want to give you
11 an exact date, Stu, but I think if we could
12 have that matrix sometime around the time of
13 the June meeting, or say by the end of June or
14 whatever, and then we could set up a Work
15 Group meeting to focus on that and to provide
16 further discussion.

17 Same time we could, Jen, you said
18 you could help us and pull together the
19 regulatory history and so forth, that would be
20 useful also. I don't know if the old dockets
21 are kept online, hidden away someplace or --

22 MS. LIN: Actually, I have them.

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1 That's how I felt that the Board's comments
2 were all captured in this regulatory document.

3 CHAIRMAN MELIUS: And I believe
4 that our comments were submitted to the
5 Secretary at the time. I can't remember
6 exactly what the capacity was then but I know
7 we came to an agreement.

8 And I think there were some other
9 maybe helpful comments that were submitted on
10 those regulations also that would be useful.

11 MEMBER ROESSLER: Could Jenny send
12 those to Work Group Members?

13 CHAIRMAN MELIUS: Yes, we could put
14 together a package of information or make it
15 available on the O: drive or something.

16 MS. LIN: Okay, I can work on that.

17 CHAIRMAN MELIUS: Yes, good.

18 MEMBER BEACH: Sounds like a good
19 start.

20 CHAIRMAN MELIUS: Okay, any other
21 comments or suggestions? If not I think that
22 really accomplishes at least what I wanted to

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1 accomplish today.

2 And just long as I promised it
3 would be short. But I think we needed to get
4 organized and get coordinated with NIOSH in
5 order to be able to do this.

6 And let's move forward with that
7 plan and assume that we'll have a Work Group
8 meeting sometime after the June meeting in
9 Santa Fe. And then let's see where we go from
10 there.

11 I think pull hard until we've sat
12 down and met and had time to go through this.
13 Good, thanks everybody for taking the time.
14 Ted, do you have anything else you need to --

15 MR. KATZ: No, that's good. Thank
16 you, Jim.

17 CHAIRMAN MELIUS: Thanks and guess
18 I'll talk to everybody again next Thursday
19 next week. Okay, thanks. Have a good day,
20 everybody.

21 (Whereupon, the meeting was
22 concluded at 1:58 p.m.)

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