

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

convenes the

WORKING GROUP MEETING

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

SURROGATE DATA

The verbatim transcript of the Working
Group Meeting of the Advisory Board on Radiation and
Worker Health held telephonically on Nov. 16, 2007.

STEVEN RAY GREEN AND ASSOCIATES
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TRANSCRIPT LEGEND

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-- "*" denotes a spelling based on phonetics, without reference available.

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

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P R O C E E D I N G S

(2:00 p.m.)

1

2

WELCOME AND OPENING COMMENTSDR. CHRISTINE BRANCHE, DFO

3

DR. BRANCHE: Welcome to the conference call for the working group on surrogate data. Thank you for joining the call. I want to make sure, do a short roll call to make sure that we have members of the committee. Jim Melius.

4

5

6

7

8

9

DR. MELIUS: Yes, I'm here.

10

DR. BRANCHE: Josie Beach.

11

MS. BEACH: I'm here.

12

DR. BRANCHE: Mark Griffon.

13

MR. GRIFFON: Here.

14

DR. BRANCHE: Jim Lockey.

15

DR. LOCKEY: Here.

16

DR. BRANCHE: Wanda Munn.

17

MS. MUNN: Here.

18

DR. BRANCHE: And then, Stu, you're sitting in for Jim Neton?

19

20

MR. HINNEFELD: That's correct.

21

DR. BRANCHE: John Mauro.

1 **DR. MAURO:** Yes, I'm here.

2 **DR. BRANCHE:** Are there other people who'd
3 like to introduce themselves? Let's start
4 with other people within NIOSH, please.

5 **MR. ELLIOTT:** Larry Elliott is here.

6 **DR. WADE:** Lew Wade is here.

7 **MS. BURGOS:** Zaida Burgos.

8 **DR. BRANCHE:** Other people from HHS.

9 **MR. STAUDT:** This is David Staudt from PGO
10 of CDC.

11 **MS. HOMOKI-TITUS:** Liz Homoki-Titus with
12 HHS.

13 **MS. HOWELL:** Emily Howell with HHS.

14 **MR. BROEHM:** Jason Broehm in the CDC
15 Washington office.

16 **DR. BRANCHE:** Are there others from other
17 federal agencies?

18 **MR. KOTSCH:** Jeff Kotsch with Department of
19 Labor is here.

20 **DR. BRANCHE:** Any other members? Anybody
21 else who would like to offer their names? Any
22 members of the public?

23 **DR. MAKHIJANI:** This is Arjun Makhijani from
24 SC&A.

25 **DR. BEHLING:** Hans Behling, SC&A.

1 **DR. BRANCHE:** Okay -- I'm sorry. Did I cut
2 someone off?

3 **MS. BERMINGHAM:** This is Sarah Bermingham in
4 Senator Schumer's office.

5 **DR. BRANCHE:** Thank you.

6 All right, we have a quorum of the
7 group, and but yet not of the Board. Isn't
8 that right, Lew?

9 **DR. WADE:** Correct.

10 **DR. BRANCHE:** Thank you for participating in
11 the call. We do ask that if you're not
12 speaking, if you could please mute your phone
13 so that others can hear what's going on in the
14 call. The background noise can often make it
15 difficult for every word of the speaker to be
16 heard. And if you don't have a mute button,
17 if there's some way for you to cover the
18 receiver of the phone that would be helpful.

19 We're going to start with some
20 information from Liz Homoki-Titus, and then
21 we'll go on to the Chair, Dr. Jim Melius.

22 Liz.

23 **MS. HOMOKI-TITUS:** Thank you, Dr. Branche.

24 Based on a document that was recently
25 produced by SC&A that the Office of General

1 Counsel received yesterday, I need to remind
2 the Advisory Board that SC&A is not a legal
3 advisor to the Advisory Board or to Health and
4 Human Services. It's not appropriate for SC&A
5 to provide legal analysis or opinions on the
6 statute or regulations to the Advisory Board
7 in this format, i.e., the document that they
8 provided to you, or any other format. We're
9 asking that you do not rely on any of the
10 opinions that SC&A provided you in this
11 document since they're inappropriately
12 provided and a number of them are incorrect.

13 I'd also like to remind you that any
14 legal or interpretive questions regarding the
15 statute or the regulations are to be made by
16 HHS. And if you ever have any questions
17 regarding the proper interpretation of EEOICPA
18 or the statutes, you need to provide them to
19 Lew Wade or whoever your designated federal
20 official is and then the program will be in
21 touch with the Office of General Counsel to
22 reply to the Advisory Board as appropriate.

23 If I may, I would like to remind you
24 what your statutory duty is as an Advisory
25 Board, and I'll be repeating this information

1 to the full Advisory Board at the meeting on
2 Tuesday. According to the Energy Employees
3 Occupational Illness Compensation Program Act,
4 which can be found at 42, USC, Section 73840
5 which describes the Advisory Board's duties.
6 It reads, quote, "Advisory Board on Radiation
7 and Worker Health, Section B, Duties, The
8 Board shall advise the President on, number
9 two, the scientific validity and quality of
10 dose estimations and reconstruction efforts
11 being performed for purposes of the
12 compensation program."

13 There is nothing in EEOICPA or in the
14 charter that gives the Advisory Board
15 authority to advise the Secretary on legal
16 issues or to seek illegal advice from your
17 contractor.

18 Thank you.

19 **DR. BRANCHE:** Thank you, Ms. Homoki-Titus.

20 Dr. Melius, I'll turn it over to you.

21 **DR. MELIUS:** I'd like to make one correction
22 to what Liz said. I think it's fair to say
23 it's her opinion that some of these may be
24 incorrect, but it's only the opinion of the
25 General Counsel of HHS. It may not be

1 necessarily true. Opinions can --

2 **MS. HOMOKI-TITUS:** The opinion of the Office
3 of General Counsel is the one that provides
4 you with the legal interpretation of EEOICPA.

5 **DR. MELIUS:** As I said, it's an
6 interpretation.

7 **MS. HOMOKI-TITUS:** Right, and that's HHS'
8 interpretation, and that's the interpretation
9 for the Advisory Board. The Advisory Board
10 was provided with the interpretation of
11 EEOICPA on this question, and you charged your
12 contractor with a specific duty which our
13 contractor went outside of. So therefore,
14 we're advising you that SC&A is not your legal
15 advisor. The opinions provided are not the
16 proper opinions or interpretation of EEOICPA.

17 **INTRODUCTION BY CHAIR**

18 **DR. MELIUS:** What I've asked John to do
19 today is to walk through the reports because
20 we had not had an opportunity to meet and
21 discuss this before. And so if John could
22 walk through the two reports to brief
23 everybody on what the content is, does not
24 take long. And then I'd like to talk mainly
25 about how we move forward from here.

1 **DR. MAURO:** I'd be happy to do that. Can
2 everyone hear me okay? I'm on my cell phone.

3 **MS. MUNN:** Yes, John, but before you start
4 this is Wanda. I'm sorry, Jim, you said two
5 documents. I was only looking at the
6 Surrogate Data Report from SC&A of 11/06. Is
7 there another document that we should be
8 looking at simultaneously?

9 **DR. MELIUS:** Yeah, there's a September 12th,
10 2007, document.

11 **MS. HOMOKI-TITUS:** Dr. Branche, I don't
12 think anybody in OGC has received that. Could
13 you please e-mail it to us?

14 **DR. BRANCHE:** I'll make sure that it gets to
15 you.

16 **MS. HOMOKI-TITUS:** I have the November 6th
17 document. I don't know if Emily has the other
18 one.

19 **DR. BRANCHE:** Emily, do you have the other
20 one?

21 **MS. HOWELL:** I'll have to double check. I
22 don't believe I do.

23 **DR. MELIUS:** It's actually the one that we
24 discussed in that brief working group meeting
25 at the last Board meeting.

1 **MS. HOMOKI-TITUS:** I definitely don't have
2 that document. If I could get someone to send
3 me that right now so that we can follow along
4 with this discussion.

5 **MR. HINNEFELD:** This is Stu Hinnefeld. I
6 can do that.

7 **MS. HOMOKI-TITUS:** Thank you.

8 **DR. MELIUS:** Okay, Stu, because if not I
9 can.

10 **DR. LOCKEY:** This is John Lockey. Would you
11 send that to me because I had to leave early
12 before that ad hoc meeting in September.

13 **MS. CHANG:** This is Chia-Chia. Will you
14 send that to me please, also?

15 **MR. ELLIOTT:** This is Larry Elliott. I
16 would just like to note for the audience on
17 the line that's outside of this government
18 circle here that these two documents from SC&A
19 are working draft documents, and they have not
20 been made public at this point in time. So
21 there is no copy on the website for review for
22 the public.

23 **DR. MELIUS:** Can I ask the status of the
24 September 12th document then?

25 **MR. ELLIOTT:** You're asking that of me, Jim?

1 **DR. MELIUS:** Well, I'm asking, well, I never
2 know who to ask that of, Larry.

3 **MR. ELLIOTT:** I can understand. Well, since
4 Liz or Emily doesn't have it, I suppose they
5 have not had a chance to review it for
6 redaction although I'm not sure, that I may be
7 misspeaking there because perhaps John Mauro
8 should speak to this. I'm not sure if John
9 Mauro and SC&A felt that that document was at
10 a state of completion they wanted it reviewed
11 for public distribution. So I don't know.

12 **DR. BRANCHE:** I don't have a copy of it
13 either.

14 **DR. WADE:** John, maybe you could talk to us
15 about the status of that document.

16 **DR. MAURO:** Certainly --

17 **MS. MUNN:** It's a problem because if I filed
18 it, I did not file it under the heading
19 Surrogate Data, which would have made it
20 easier for me to find. So this is Wanda, and
21 I'm struggling trying to find it, too.

22 **MR. HINNEFELD:** I'm adding names to my
23 address list here.

24 **DR. WADE:** Well, let John though speak to
25 what the document is.

1 **SURROGATE DATA DRAFT REPORT OF SEPT. 12, 2007**

2 **DR. MAURO:** Yes. We delivered a draft
3 report dated September 12, 2007, to the
4 working group which I referred to as more of a
5 survey or a compendium which describes the
6 degree to which surrogate data of various
7 types were used in various site profiles,
8 primarily site profiles.

9 As you know SC&A has reviewed 21 site
10 profiles, and the question that was posed to
11 SC&A is for us to go back to our review of
12 those documents and identify places where the
13 site profile -- in other words, the primary
14 mission -- made use of surrogate data from
15 other sites. In other words are there any
16 site profiles that took advantage of data and
17 information from sites other than the site for
18 which the site profile was prepared in order
19 to supplement, complement, help fill in the
20 blanks, the site profile for a given site.

21 That report was delivered on September
22 12th, and it's primarily a compendium of
23 information, a large table. And that was
24 delivered. And subsequent to that once the
25 compendium was there a question arose, okay,

1 now that we have a set of how and to what
2 degree other site data is being used in
3 various site profiles, in various procedures
4 and also in various dose reconstructions at
5 least based on the slice that we view, and in
6 terms of the site profiles we reviewed; the
7 SEC petitions we reviewed, the evaluation
8 reports and the dose reconstructions that we
9 reviewed. We provided that information.

10 Then subsequent to that the working
11 group convened --

12 **DR. WADE:** Can I stop you for just a moment,
13 John, just to -- so the September 12th document
14 has not been submitted as a contract
15 deliverable?

16 **DR. MAURO:** No, it was delivered as a draft
17 report solely to the working group.

18 **DR. WADE:** So you haven't submitted it for a
19 Privacy Act review at this point?

20 **DR. MAURO:** No, it has not.

21 **DR. WADE:** So I just want to get that on the
22 record. If it's the desire of the work group
23 to do that, then we can talk about that. But,
24 okay, fine, you can go ahead, John.

25 **DR. MELIUS:** And I would say that it is the

1 desire of the work group.

2 **DR. WADE:** Okay, John.

3 **DR. MELIUS:** I mean, I think we need to get
4 this out so that we can --

5 **DR. WADE:** So then the action, John, would
6 be for you to submit it through the channels
7 that have been developed.

8 **DR. MAURO:** Certainly, and we do have a
9 follow-up procedure for doing that. It goes
10 to our point of (inaudible), and certainly I
11 will advise Nancy to get in touch with Liz.
12 Okay, let's put this one in the queue for
13 putting it through Privacy Act review, no
14 problem.

15 **DR. WADE:** So then you can continue, John.
16 I'm sorry.

17 **MR. HINNEFELD:** Real quick, this is Stu
18 Hinnefeld. I'm preparing to forward this to
19 Liz, Emily, Chia-Chia, Dr. Wade, Dr. Branche,
20 Dr. Lockey, Ms. Munn and Ms. Beach, I think,
21 was the one that said she didn't have it.
22 Anybody else?

23 **MS. BEACH:** I actually have it. Mine was
24 dated November 6th. This is Josie. Is this
25 that correct --

1 **MR. HINNEFELD:** I think this is a different
2 one. I believe this is an earlier report from

3 --

4 **DR. MELIUS:** It's an earlier one, Josie.

5 **MR. HINNEFELD:** Then I will send.

6 **DR. WADE:** You're a good man, Stu.

7 **MR. HINNEFELD:** I trust that will be the sum
8 total of my contribution.

9 **MS. MUNN:** Probably not.

10 **DR. BRANCHE:** Thank you for sending it.

11 So, John, please continue.

12 (no response)

13 **DR. BRANCHE:** John Mauro?

14 (no response)

15 **DR. BRANCHE:** John, did you have the floor?

16 **DR. WADE:** I wonder if we have John or not.
17 That's more the issue. We might have lost
18 contact. I assume if we did, he would call
19 right back in.

20 **MS. MUNN:** Well, he said he was on a cell
21 phone so that may create a problem.

22 **DR. BRANCHE:** Dr. Melius, could you please
23 (inaudible)?

24 **DR. MELIUS:** Yeah, I'm here. I just, sort
25 of waiting. I'd asked John to do the summary.

1 **DR. WADE:** Let's give John a minute to call
2 back in. He's a resourceful fellow. He'll
3 solve the problem.

4 **DR. MAURO:** Hello, this is John Mauro.

5 **DR. WADE:** Told you.

6 **DR. MAURO:** I was on the cell phone and for
7 some reason we lost connection so I called
8 from a land line, so I'm back online. Should
9 I continue?

10 **DR. BRANCHE:** Please do.

11 **DR. MAURO:** I'm sorry for that. That's one
12 of the problems with cell phones.

13 During the Naperville meeting on
14 October, I believe it was on October 4, 2007,
15 there was a brief meeting of the working group
16 whereby we very briefly discussed that
17 September 12th report. And the working group
18 then asked if SC&A would prepare a supplement
19 to that report which, in effect, the direction
20 was to come up with suggested technical review
21 criteria for the appropriate use of data from
22 other sites which is the document that you
23 have before you that's dated November 6th, and
24 it's titled "Supplementary Report Concerning
25 the Use of Data from Other Sites".

1 And our direction was to, when we
2 explore this issue, to make it as regulatory
3 driven as we could. In other words given the
4 regulations, and how they're framed to come up
5 with suggested technical criteria for the
6 conditions under which according to the
7 governing regulations would appear to be the
8 drivers for when and under what conditions it
9 would be appropriate to use surrogate data for
10 other sites. And that was my understanding of
11 our mission, and that's described in the
12 introductory language to this relatively brief
13 report which is about six or seven pages.

14 So given that what I did, and I think
15 this is where the offending language came in,
16 that is, I went through and I read, I started
17 with the statute, and I read the statute very
18 carefully to judge is there any language in
19 there that would speak to the question of the
20 use or non-use of other site data in
21 performing dose reconstructions. And as you
22 may have noticed, I try to quote those
23 portions of the statute, starting with the
24 statute, that might, might directly or
25 indirectly be relevant or related to that.

1 And basically what I concluded was,
2 well, the statute really is silent, but I did
3 make one conclusionary statement. That's on
4 page two of my report toward the bottom which
5 I suspect is probably part of the problem that
6 we're discussing today whereby -- I'll
7 actually read the words that I wrote that
8 says, "the law itself is somewhat ambiguous
9 but may imply that data used for dose
10 reconstruction should be from the same
11 facility where the employee worked."

12 As I pointed out in the introduction,
13 this is purely my reading or our reading,
14 SC&A's reading, and I was trying my best to
15 communicate my sense of the degree to which
16 there's any direction given in the statute.
17 And we came away with that conclusion. And I
18 suspect that that's probably one of the places
19 where there's some concern.

20 The report then goes on --

21 **MS. HOMOKI-TITUS:** John, there's a number of
22 places that are as much, probably even more
23 concern than that, and I'm not comfortable
24 with you going through this document and
25 providing your legal opinions that you

1 provided in it.

2 **DR. MAURO:** Yeah, I was hoping they wouldn't
3 be legal. What I was doing, the way I think
4 about this is I was doing what I used to do
5 which is called a licensing engineer. For
6 many, many years my role at engineering
7 companies was to read the regulations that
8 were in place and try to help identify what
9 the technical implications are of those
10 regulations so that the engineers and
11 scientists would be preparing their work
12 products, like environmental impact statements
13 or safety analysis reports that met the letter
14 and intent of the governing regulations.

15 So the way I look at this is sort of
16 as a bridge, a technical bridge, that says,
17 okay, as best I can tell this is the
18 regulatory drivers. So it's something that
19 I'm very familiar with and have done quite a
20 bit of on behalf of the design of nuclear
21 power plants, for example. But in any event
22 that's what I did, and I take full
23 responsibility.

24 And then I moved on to do the same
25 kind of thing, you'll see on the bottom of

1 page two, Section B, you'll see a brief review
2 of CFR-81. And then I go on to CFR-82 and
3 then CFR-83 where I effectively, to the best I
4 could, summarize those portions of the
5 implementing regulations that say something
6 either directly or indirectly that might be
7 pertinent regulatory drivers pertaining to the
8 use of other site data.

9 And then I conclude the report on page
10 seven with three -- and this is my creation,
11 three what I call technical review criteria
12 that says, gee, as best I can tell from
13 reading the regs, these would be what you
14 would use as your, in other words if someone
15 were to be, was about to use other site data
16 to let's say support a site profile or a dose
17 reconstruction, it seems to me the regulations
18 would establish, at least give you some ground
19 rules that you could interpret as best I can
20 tell, and these would be the criteria, these
21 three that I wrote here.

22 And I don't know if it's necessary to
23 go through them, but it's my construct of what
24 I believe to be technical review criteria that
25 would be almost like a test. You could use,

1 based on reading the regs, it seems that you
2 could use other site data, especially under
3 part 83, but it also seems that there are
4 certain tests that you have to meet, you know,
5 criteria, technical criteria, that need to be
6 met before you could leap to other site data
7 as the basis for, let's say, doing your review
8 of compliance with part 83 and also part 82.

9 And that's what this report was. And
10 so in summary without going into the details
11 of those criteria, this is my contribution to,
12 my response to the directives that we received
13 from the working group.

14 **DR. MELIUS:** What I'd like you to do, John,
15 is to just briefly describe the three
16 technical criteria.

17 **DR. MAURO:** Sure.

18 **DR. MELIUS:** Because I think aside, I mean,
19 aside from the regulatory issues, I mean, the
20 regulations reflect the, essentially were to
21 enable what would be a procedure for doing
22 dose reconstruction. And I don't think that
23 the criteria are as much regulatory driven as
24 they are sort of what are the procedures we're
25 going to put in place for doing dose

1 reconstruction.

2 And I think that's what we want to
3 focus on in the working group is the technical
4 side of these issues and not the regulatory or
5 legal side. And frankly, as far as I'm
6 concerned, and others may feel differently, if
7 Liz or General Counsel's Office finds the
8 first six pages so offensive or difficult,
9 they can be taken out. Because I think what
10 the key to this and for our working group
11 going forward is page seven on.

12 **MS. HOMOKI-TITUS:** The only part we want
13 taken out is where legal conclusions are
14 drawn. Where he lists what part of the
15 statutes are appropriate is fine.

16 **DR. MELIUS:** Yeah, I mean, you can work that
17 out. I'm not trying to, but it does, really,
18 you approached it in the way you're used to,
19 John, and that's fine. But if you think about
20 it, it also reflects what procedures Larry and
21 his group and his contractors do in doing dose
22 reconstructions that we're all familiar with
23 and in part of now.

24 And the idea is how do we put the use
25 of surrogate data in the framework of the

1 current program in sort of a technical
2 procedural way, not in a legalistic approach
3 to that. So if you could just go through
4 those because I think that's what I'd sort of
5 like to focus our attention on in this brief
6 call.

7 **DR. MAURO:** I'd be glad to, and they're
8 really relatively brief. They start on page
9 seven, and the first one that I call
10 "Technical Review Criterion One" -- and I call
11 that hierarchy of data, and I do cross-
12 reference the part 82 section that I felt was
13 applicable here.

14 And it really boils down to that what
15 I'm offering is the second paragraph in that
16 section that says, "under this technical
17 review criterion" -- which I'm suggesting --
18 "NIOSH would need to demonstrate that good
19 faith effort was made to use worker-specific
20 workplace-specific and site-specific data
21 before resorting to data from other sites to
22 replace, complement, supplement or confirm
23 data of greater stature in the hierarchy of
24 data."

25 So the way I read it is this. There

1 is a hierarchy of data that needs to be used
2 and preference is given to site-specific data
3 and before you resort to other site data, you
4 would want to make sure you worked your way
5 starting with the onsite data and demonstrate
6 that an attempt was made to do that.

7 **MR. ELLIOTT:** John, this is Larry Elliott.
8 Just if I could jump in --

9 **DR. MAURO:** Sure.

10 **MR. ELLIOTT:** I offer a point of
11 clarification. The hierarchy of data that is
12 presented in our regulation specifies the
13 preferences being on individual monitoring
14 data.

15 **DR. MAURO:** Yes, but you do go to, for
16 example, eventually you can go to criteria
17 related to the operation of the facility in
18 your different hierarchies. Well, for better
19 or worse, I mean, I'm not saying --

20 **MR. ELLIOTT:** Not in the hierarchy, but the
21 preference, the data that we prefer to use is
22 individual monitoring data for individuals, an
23 individual working at that given site.

24 **DR. MAURO:** Right, right. Yes, and well,
25 what I'm saying is that eventually if you do

1 use, move to data from another site, the
2 philosophy being -- and this is my
3 interpretation, and it was my offering so that
4 it would actually initiate a discussion that
5 we're having right now.

6 Before you move to, let's say, using
7 data from another site whether it's air
8 sampling data or bioassay data or whatever,
9 data from another site, you would want to
10 exhaust the availability of data from the site
11 of interest. And that's criteria number one,
12 pretty simple and pretty straightforward.

13 Then the second criterion,
14 documentation, and it's really related to the
15 first one, is that at least some data was used
16 from the site of interest. This goes, of
17 course, to part 83 that actually explicitly
18 requires that. But then I go on to explain
19 that one of the areas that may need some
20 further development related to that, what I
21 call exclusivity constraints, is how much and
22 to what extent would you define, that is, the
23 rule in part 83 does require that at least
24 some data be used from the site of interest.

25 And all I'm really raising here is

1 there's probably a little work that needs to
2 be done to define what the threshold is for
3 that. As I point out in this write up, I've
4 seen it range from, for example, where the
5 data from, when you take a position that, yes,
6 we did use data from the site of interest.

7 Perfect example as I point out in the
8 write up is Bethlehem Steel where there's
9 quite a bit of site-specific data that was
10 available, was used, and then you resorted to
11 Simonds Saw data to sort of supplement that
12 where some data was lacking. That would be a
13 place where there was considerable amount of
14 site-specific data used. To the other extreme
15 would be, for example, TBD-6000 where just the
16 knowledge that a site was a metalworking
17 facility would be sufficient site-specific
18 information. What I would call that would be
19 very low threshold.

20 And as long as you know that a site
21 was a metalworking facility, uranium
22 metalworking facility, that constitutes site-
23 specific information. And then you can move
24 on and use TBD-6000 which is a compendium of
25 information for many sites to supplement the

1 data for a given site.

2 So I use that as two examples of the
3 range of interpretation, and I guess the point
4 being made here is that I guess it would be
5 helpful to establish some type of reasonable
6 threshold of when have you made use of onsite
7 data, met the letter intent of part 83 and met
8 some threshold. I think right now there's a
9 lot of judgment left on that.

10 Finally, what I talk about in
11 Criterion Three is really something that needs
12 to be developed also. And when I prepared the
13 compendium, you may, those of you who had an
14 opportunity to look at it, you may have
15 noticed that I described the type of surrogate
16 data into different categories. I actually
17 broke them into two types, one and two, and
18 where you could see that there's a vast array
19 of other site data or surrogate data in
20 general that is made use of, the conditions
21 under which you would use other site data
22 differs depending on what the data's being
23 used for.

24 So what I describe here is that there
25 probably is a need to provide some guidance as

1 to, this gets really into what you would call
2 the implementation of this philosophy. You
3 know, when would you use lower limits of
4 detection from another site? When would you
5 use bioassay data from another site, air
6 sampling data from another site, under what
7 conditions?

8 For example, if you are going to take,
9 a great example would be the Bethlehem Steel-
10 Simonds Saw example. Under what conditions is
11 it appropriate to use air sampling data from
12 one site to supplement data from another site?
13 And there may be a lot of, I guess, guidelines
14 that could theoretically be developed for each
15 category of other site data that, and you may
16 hold some data to a higher threshold because
17 they're more fundamental, for example,
18 bioassay data or air sampling data which
19 really go directly toward the dose
20 reconstruction process.

21 But other data such as what are you
22 going to assume to be a default lower limit of
23 detection. There may be a different threshold
24 or criteria as applied to the use of neutron-
25 to-photon ratios, medical x-ray exposures. In

1 other words each one is, theoretically, you
2 could draw upon experience at other sites or
3 throughout the complex, and if you're going to
4 apply it to a particular site, there needs to
5 be, what I see, some direction or guidance on
6 under what conditions is it appropriate to do
7 that.

8 And that is really what I discuss
9 under Technical Review Criterion Three. And
10 that really boils down to my offering for the
11 consideration by the working group in response
12 to the questions that, well, I guess the
13 mission that was given to SC&A.

14 **DR. MELIUS:** Are there any questions for
15 John?

16 **MS. MUNN:** No, but this is Wanda. I have a
17 comment with respect to his observation about
18 the need for judgment as opposed to
19 establishing some clear criteria. So far as I
20 believe we have observed to-date, this
21 hierarchy that we discuss is pretty well
22 agreed to and understood by most everybody
23 involved. It seems strange to me that we
24 could consider the possibility of establishing
25 guidelines for these circumstances where we

1 get down in the third, fourth levels of the
2 hierarchy because each of the sites that we
3 would be comparing would in most cases have
4 such different histories even though they were
5 doing the same kind of work.

6 I don't think we have assurance with
7 respect to the time elements involved. It's
8 hard for me to see at this juncture how we can
9 establish criteria and eliminate the need for
10 judgment on the part of the individual dose
11 reconstructor or the individuals who are
12 reviewing the sites for an SEC. Maybe I'm
13 missing some of the finer points, but I don't
14 see how we can eliminate the need for reliance
15 on judgment at some juncture.

16 **DR. MELIUS:** Yeah, I understand. I agree
17 with you. I think John would. I think the
18 issue is sort of maybe not what we call strict
19 criteria, but it would be more there are maybe
20 guidelines or factors that need to be
21 considered as part of that judgment because
22 you also want that judgment to be consistent
23 from case to case so that, or situation to
24 situation, so that you're not ending up with
25 vastly different types of judgment or you'd

1 have the situation where two people looking at
2 the same situation would come up with very
3 different interpretations or very different
4 judgments.

5 So there's sort of, I think, a happy
6 medium there where you provide the framework.
7 And I actually think that many of the
8 procedures that OCAS has developed are really
9 providing guidance to the dose reconstructors
10 recognizing that judgment is required but
11 providing some framework for that judgment so
12 that it's done in a consistent and fair manner
13 and reflects the overall approach of the
14 program.

15 Is that a fair way of putting it,
16 Larry?

17 **MR. ELLIOTT:** I appreciate what you said
18 there, Dr. Melius, and I do agree. I think
19 that's been what we strive to do is provide
20 instruction and guidance to make sure that we
21 have consistent dose reconstructions. So
22 anything that we can do to improve upon that,
23 we certainly would be interested in doing.

24 **DR. MAURO:** Larry, this is John. What drove
25 me in the direction of the, especially the

1 third item, is I was thinking about the way in
2 which other site data has been used. And the
3 two places that come to mind immediately,
4 something I became intimately familiar with,
5 was Bethlehem Steel and TBD-6000.

6 **MR. ELLIOTT:** Yes.

7 **DR. MAURO:** And I thought they were very
8 good examples of, okay, what happened with
9 Bethlehem Steel where data from Simonds Saw,
10 air sampling data, was used to supplement.
11 And I said, hmmm, and I thought about it. A
12 lot of thought went into that, that is, in
13 terms of the design of the facility, the mode
14 of operation, the type of ventilation system,
15 the kind of equipment, the salt baths.

16 In other words before that air
17 sampling data were used a great deal of
18 thought went into whether or not it's prudent
19 to do that. So of course, those judgments
20 were made but not within a framework that had
21 any guidelines that said, it almost was like
22 good science.

23 In other words let's make sure we do
24 our homework before we use the Simonds Saw
25 data. And it's very well documented in the

1 work that was done. So I said to myself,
2 okay, what does this tell us. What does this
3 precedent tell us? It tells us that, yeah,
4 there probably are some guidelines that could
5 be assembled of when you're going to use air
6 sampling data from one site.

7 And then I went on and said, okay,
8 what's the other place where I have some
9 pretty good experience. And I said, well,
10 when I looked at TBD-6000, I said what do we
11 have here. I said, well, you have a one-size-
12 fits-all. If you're a uranium metalworking
13 facility, and you have very limited site-
14 specific information, you could resort to TBD-
15 6000 as a bounding default approach for doing
16 dose reconstruction.

17 I said, okay, what cautions should
18 someone use, and basically what I pointed out
19 was that -- and this is actually in the write
20 up that you have before you -- is that, well,
21 there is a certain degree of care that must be
22 taken to make sure that the array of data upon
23 which TBD-6000 is based, the measurements that
24 were taken, the historical records, are, in
25 fact, bounding and appropriately applied to

1 the particular case at hand where you're using
2 TBD-6000 as your other site data surrogate for
3 exposures at a given site.

4 And I think that one of the things,
5 the cautions, I put in here is that having
6 TBD-6000 is an extremely convenient tool, and
7 in my opinion, and again, I'm talking from a
8 technical perspective, there's a place for
9 such a tool. But, of course, it's also easy
10 to use, and there should be some criteria of
11 when you resort to that and certain tests you
12 may actually want to impose upon yourself as a
13 dose reconstructor.

14 And my sense is that right now the
15 guidance in 6000 does say use site-specific
16 information when you have it, but it doesn't
17 say too much about under what conditions
18 should you use, if you don't have site-
19 specific data, and you're about to resort to
20 TBD-6000, are there any questions you should
21 ask yourself about what you're about to do.

22 And it seems to me right now I don't
23 believe that kind of guidance exists. And
24 that was my intent in the third category. So
25 I drew upon that experience to try to

1 generalize and create these criteria, and that
2 was my intent. And so --

3 **MR. ELLIOTT:** The other point of guidance in
4 TBD-6000 that I would point out, John, is that
5 it specifies use for specific facilities down
6 to the name of the facility.

7 **DR. MAURO:** Yes, the appendices are there.
8 There's no doubt about it.

9 **MR. ELLIOTT:** So that may, in some people's
10 mind I hope it may need to be explicit, but it
11 would imply that before you pick this document
12 up and use it for a facility not on that list,
13 you better make sure you understand why it's
14 okay to use it, or you can't use it. So maybe
15 we need to look at it that way.

16 **DR. MAURO:** I agree and keep in mind that
17 the appendices are there, and they're growing.
18 So data is being compiled, and you certainly
19 go to the appendices --

20 **MR. ELLIOTT:** Appendices really are
21 developed, for TBD-6000 the appendices are
22 developed for unique exposures that are not
23 addressed in the cover document, the Technical
24 Basis Document 6000 itself. So I just want to
25 be clear on that point because I don't want

1 people to become confused that the appendices
2 speak to something more on uranium metal
3 refining or manufacturing than is already in
4 the TBD-6000.

5 I don't believe those appendices do
6 that. I believe they only speak to unique
7 exposures outside of the, like the Appendices
8 BB for GSI and the Betatron. That only deals
9 with that Betatron exposure, that appendix.
10 See what I'm saying?

11 **DR. MAURO:** Absolutely. I guess I'm going
12 in the other direction, when you're going to
13 use the TBD-6000, and you don't have an
14 Appendix BB or CC, and you want to reconstruct
15 the doses at a particular site. You don't
16 have the data. You have all the look-up
17 tables which are well researched, but they are
18 based on certain datasets.

19 And all I was saying was that when
20 you're going to use that as your surrogate,
21 perhaps it would be a good idea to have
22 certain, I guess, a checklist to make sure
23 that you have a full appreciation of how that
24 dataset was compiled and why it is appropriate
25 to use for the particular case at hand as a

1 bounding method or at least a claimant
2 favorable method. I guess it's as simple as
3 that and not just go directly and resort to
4 it.

5 **MR. ELLIOTT:** I think we understand your
6 point.

7 **DR. MAURO:** Yeah, and that's all I was
8 offering up. So there's nothing really very
9 profound about my three criteria. They sort
10 of fall right out of the regulations, and
11 that's the reason I put the regulatory review
12 in the front. Because as I said, I do think
13 in terms of regulatory-driven technical
14 criteria. And that's all I was trying to do.

15 **DR. MELIUS:** Other comments?

16 (no response)

17 **DR. MELIUS:** From anyone?

18 **MS. MUNN:** Well, that certainly stirred up a
19 storm, didn't it?

20 **MR. ELLIOTT:** Well, this is Larry Elliott.
21 I would take us back to the other document
22 that was presented to the working group on,
23 dated September 12th. I believe it was before
24 the last Advisory Board meeting. We, of
25 course, at NIOSH haven't responded to anything

1 I don't believe yet that's couched in that
2 document. And we certainly, I think, may have
3 some thoughts and ideas in reaction to how
4 John has categorized or perhaps identified
5 certain uses of surrogate data. So just want
6 to put that marker out there that we haven't
7 had a, haven't come back with any response,
8 reaction or thinking about that yet, and we
9 would like to do that.

10 **DR. MELIUS:** Let me talk about what I see as
11 a way forward. And part of it was, not that I
12 necessarily disagreed with the September 12th
13 document, but as much as I didn't think it
14 provided enough of a framework for us to do
15 what we need to do in terms of this particular
16 working group. And I thought we ended up, we
17 end up really getting into sort of the weeds
18 of what Wanda's Procedures work group is
19 focusing on it.

20 It didn't make sense to have two
21 groups doing some of the same thing. So it
22 was in reaction to that document that I asked
23 John to do the second document as a way of
24 sort of stepping back a little bit and
25 thinking about how would we judge, how would

1 we develop a set of guidelines that would sort
2 of provide a framework for the use of
3 surrogate data in this program. And what I
4 would have in mind going forward is that we
5 produce a document that is similar to the SEC
6 review document that we put together a couple
7 years ago now at least, doing that that would
8 try to lay out the framework and guidelines
9 within that framework for the review of, for
10 the use of surrogate data in this program.

11 And it would not necessarily try to
12 address particular instances, though I think
13 it should be informed by particular uses that
14 are already in place, but wouldn't, because I
15 think you want it to be useful. You don't
16 want to be having a set of guidelines that
17 don't apply to anything that's being used but
18 reflect the variety of uses as well as some of
19 the complexities of this program and the
20 issues of judgment and so forth that Wanda
21 raised into that.

22 And I guess I'd like people's reaction
23 to that as a way forward because I think this
24 particular issue obviously is a source of
25 heartburn for all of us in many ways. It

1 gives the Legal people heartburn because of
2 what's in the regulations and law and so
3 forth. And it obviously, Larry, and I think
4 all of us, have to be concerned that we're
5 already doing a lot and already using
6 surrogate data a lot in this program. And we
7 have to be mindful of that and the fact that
8 we are comfortable in its use in many
9 instances.

10 And so I think what may be more useful
11 both in a sense of going forward is having a
12 document that looks at it from a sort of
13 overall guidelines criteria perspective like
14 the SEC document. So I guess I would be
15 interested in people's reaction to that.

16 **MS. MUNN:** This is Wanda. I'm not at all
17 sure I understand the format that you are
18 suggesting, Jim. Are we discussing the
19 insertion of some criteria in, for example, a
20 workbook? Or are we considering something
21 else?

22 **DR. MELIUS:** It would be a document. It
23 would be entitled as a straw document so to
24 speak, you know, "Guidelines for the Use of
25 Surrogate Data in the Dose Reconstruction

1 Program". And it would list the various
2 criteria, I think, using, say starting with
3 something equivalent to the three criteria
4 that John has starting on page seven of the
5 second SC&A report, and an explanation of how
6 those would be applied. And then it may have
7 some procedural recommendations also.

8 **MS. BEACH:** This is Josie. Do you mean
9 procedural recommendations or would we
10 actually make this a procedure?

11 **DR. MELIUS:** It wouldn't be a procedure.
12 This would be sort of an overall guidance
13 document like the original SEC review
14 document. Again, what we did there was
15 produce a set of guidelines and general
16 criteria that would be used in the review of
17 SEC evaluation reports. And these would be
18 things, was basically was designed to be the
19 type of information that would be a guide for
20 OCAS in preparing the evaluation reports, and
21 I don't want to say a checklist, but sort of a
22 general type of areas that the Advisory Board
23 felt should be focused on in the review of
24 those evaluations.

25 **MR. ELLIOTT:** I thought you were starting

1 off with this being a Board-related tool, but
2 now it sounds like it's, you're leading it
3 more to a guidance tool that we would use.

4 **DR. MELIUS:** Well, I think it's both. I
5 think the SEC ended up in some ways being both
6 because you used it as a -- correct me if I'm
7 wrong, Larry -- but as a way of, sort of an
8 outline for your reports, SEC evaluation
9 reports, the things that would be covered in
10 them. And then the Board used it as a way of
11 how we would evaluate.

12 **MR. ELLIOTT:** Yeah, essentially how I recall
13 that going down was the Board through your
14 working group provided some recommendation on
15 how to develop an evaluation report that
16 addressed some things, some elements, some
17 concerns, some problems that you were seeing
18 in our evaluation reports. And you wanted to
19 make sure that we attended to those, and we
20 accepted that recommendation, and we started
21 living by that. So that could happen here, I
22 guess.

23 **DR. MELIUS:** Yes, I mean, I think that
24 there's differences clearly. I mean, I think
25 the use of surrogate data is in some ways more

1 diverse. There's different --

2 **MR. ELLIOTT:** Yeah, it is.

3 **DR. MELIUS:** -- yeah, and so I think, yeah,
4 some guidelines may apply, some criteria may
5 apply to one use, it may not apply to another.
6 And I think we have to try to make sure we
7 reflect that and so forth. What I'm thinking
8 of like a procedural recommendation, I mean,
9 there may be things like I would actually
10 (sic) responding to something you had just
11 said, Larry, which was for the 6000 procedure,
12 the appendices deal with unique situations.

13 **MR. ELLIOTT:** Yes.

14 **DR. MELIUS:** Essentially the exceptions.
15 Well, maybe one procedural recommendation is
16 that there should be an explicit procedure for
17 dealing with the exceptions.

18 **MR. ELLIOTT:** Or site profiles or technical
19 basis documents that utilize surrogate data
20 need to be explicit in how that came to be.
21 Maybe that's where we --

22 **DR. MELIUS:** Yeah, exactly, exactly.

23 **MR. ELLIOTT:** -- because I think we do it a
24 little bit of justice and service in some of
25 our documents while in others perhaps we are

1 not as explicit as we should be about the use
2 of surrogate data.

3 **DR. MELIUS:** And we all recognize some of
4 that as the programs mature then as we all
5 gain experience, and particularly your group
6 gains experience doing literally thousands of
7 dose reconstructions that situations become
8 more evident. I guess others on the work
9 group? Do I have you completely puzzled?

10 **DR. LOCKEY:** Yeah, Jim, Jim Lockey. I just
11 maybe a further explanation for me (sic).
12 What you're suggesting is that when surrogate
13 data is felt to be appropriate, appropriate
14 for use by NIOSH, this is the hierarchy as to
15 how that data would be used. Is that what
16 you're suggesting?

17 **DR. MELIUS:** No, these would be guidelines
18 that would guide the consideration of the use
19 and the utilization of surrogate data.

20 **DR. LOCKEY:** So what you're proposing is a
21 step before that. In other words a step in
22 regard to how NIOSH arrives at the decision
23 that surrogate data is appropriate for use.

24 **DR. MELIUS:** But I actually think that's
25 part and parcel of what goes on already. I

1 mean, I'm sure that, you know, some of it's
2 sort of obvious. If you have adequate data
3 for the site, you don't consider it, right?
4 So that already goes on. That's part of the
5 hierarchy.

6 **MS. MUNN:** Yeah, this hierarchy has
7 essentially been in place from the outset.

8 **DR. MELIUS:** One mustn't rewrite the
9 hierarchy. So it's guidelines on, if
10 essentially those guidelines aren't met,
11 you're not going to do it so to speak. But I
12 mean --

13 **DR. LOCKEY:** That's what I'm asking. Since
14 the hierarchy's in place and that, then what
15 are you proposing? That's what I'm having
16 trouble.

17 **DR. MELIUS:** I think there are criteria
18 beyond just the hierarchy, and there are
19 criteria as to what is the, let's call it the
20 suitability of surrogate data. I mean, one,
21 it's not always available. It doesn't always,
22 there's many cases where it's not going to be
23 used.

24 **MR. ELLIOTT:** Jim, if I might maybe I can
25 help out here and explain as I see what you're

1 talking about for Dr. Lockey here.

2 If we take the Bethlehem Steel example
3 that John Mauro spoke of earlier, and we
4 identified that we had some data gaps. In
5 that instance we didn't have enough exposure
6 monitoring data, and it led us to use air
7 monitoring data. And we still felt we needed
8 a little bit better handle on that aspect.
9 And we looked around, and we said, well, here,
10 we've got another site that was a pilot
11 operation similar to Bethlehem Steel. They
12 were rolling uranium. In fact, they were
13 trying the same process at Simonds as they
14 were trying to do at Bethlehem. And they
15 learned something at Simonds that they applied
16 at Bethlehem. So maybe there's some data at
17 Simonds that we can use to bound doses at
18 Bethlehem. And so that's exactly what we did,
19 but we didn't explain perhaps clearly and well
20 enough and thoroughly enough why we felt we
21 could use that data from Simonds. It could
22 have been that we looked at that Simonds data
23 and said, well, we can't use that, and we
24 should explain why we couldn't use that. I
25 think that's where Dr. Melius is going.

1 **DR. LOCKEY:** I understand. I assumed that
2 that's what you were doing. What I didn't
3 understand was that the justification of your
4 decision was not recorded.

5 **MR. ELLIOTT:** Well, I would say it is
6 recorded, but perhaps it could be more
7 explicit than it is.

8 **DR. MAURO:** This is John. I was very close
9 to the evolution. And one of the concerns
10 throughout the process in the review of
11 Bethlehem Steel was the use of Simonds Saw
12 data. And during the deliberations a great
13 deal of information was brought forth to
14 describe why the data that was used from
15 Simonds Saw was appropriate in this
16 circumstance. So that emerged during the
17 course of our deliberations.

18 So in a way that process represents a
19 good example of the kinds of deliberations
20 that were used in the past to get to the point
21 where it was generally felt that we can do it
22 under those circumstances. And in a way that
23 very same deliberative process is appropriate
24 for any time you're going to draw upon other
25 site data to help supplement the data you have

1 for a given site. So that's why I went to
2 Bethlehem Steel as a good example. And that
3 deliberative process emerged. That wasn't
4 something that was self evident from the very
5 beginning. It emerged during the course of
6 working through some of the issues that we
7 raised related to Bethlehem Steel.

8 **DR. MELIUS:** I mean, even if you, another
9 way of stating more generally, well, if data's
10 not available from a site for a particular
11 process or something or whatever. OCAS will
12 say, well, we'll consider the use of data from
13 another site, surrogate data. Well, under
14 what criteria would you do that? I mean, and
15 he'd say, we'll, we'd use our judgment. Well,
16 what goes into that judgment, and how is the
17 decision made to use it?

18 But once a review takes place of that
19 information that would determine that it's
20 appropriate and that it is applicable in that
21 situation. Now clearly, these situations are
22 diverse, so we're not going to try to produce
23 a document that covers every specific
24 situation, but I think there are some general
25 criteria that -- I mean, again, the same with

1 the SEC.

2 All the sites are different and the
3 criteria, the evaluation document does not
4 cover every situation or every consideration,
5 but I think it provides a framework, and I
6 actually think the process helps to, you know,
7 both the Board and the Board working with
8 NIOSH to sort of have a consensus on how we
9 will go forward on, you know, in one case the
10 review of SEC evaluation reports and the other
11 case with whatever Larry and the group propose
12 the use of surrogate data for a particular
13 situation or as part of a particular procedure
14 or dose reconstruction.

15 **DR. BEHLING:** Dr. Melius, can I make a
16 comment here? This is Hans Behling of SC&A.

17 **DR. MAURO:** This is John. If it's okay, I
18 would like to break. I am in a position where
19 it's very difficult for me to continue on the
20 line. If you'll forgive me, but certainly,
21 Dr. Melius, if I could give you a call at a
22 convenient time, any actions you'd like us to
23 take I certainly could discuss it, but I do
24 have to break right now.

25 **DR. MELIUS:** Okay, John.

1 **DR. MAURO:** Okay, thank you very much.

2 **DR. BEHLING:** Dr. Melius, can I make a
3 comment here?

4 **DR. MELIUS:** Yes, go ahead, Hans.

5 **DR. BEHLING:** And I guess we've discussed an
6 awful lot about when is the use of surrogate
7 data appropriate, and what are the potential
8 criteria. And I think collectively we can
9 talk about the degree to which surrogate data
10 has parity with the facility for which we have
11 no data. And parity is really based on the
12 number of criteria that can be used.

13 For instance, time is a critical
14 aspect as was the case with Simonds Saw and
15 Bethlehem Steel. The two facilities operated
16 during the same time period so time is of
17 critical importance of significance in the
18 sense where you wouldn't want to compare a
19 facility that's operating currently with one
20 that operated in the '50s and '60s.

21 The other issue is one of the
22 facility. The engineering controls, the
23 design of the facility. Another one would be,
24 for instance, the quantity of materials
25 processed. You cannot compare a facility that

1 processed a very small quantity with a
2 facility that processed megatons.

3 Another one would be the role of the
4 processes, the type of processes. Are they
5 identical or is there parity between the
6 chemical processes or the mechanical
7 processes. And lastly, there may be issues
8 regarding a known or established radiological
9 incident that would perhaps make one facility
10 not appropriate for it to another facility.

11 So these are all the criteria. And
12 collectively, I think the importance here in
13 using surrogate data is to establish a degree
14 of parity that says, yes, they are close
15 enough or nearly identical to the point where
16 there's no reason not to use it as opposed to
17 recognizing their differences in design, in
18 facility designs, the differences in the time
19 periods during which they operated at
20 differences in the processes that were used
21 for the same endpoint.

22 All these things would either
23 determine whether or not it's appropriate to
24 use surrogate data or perhaps the use of
25 surrogate data has certain limitations to it.

1 And I think there could be a reasonable, easy
2 checklist that would essentially provide an
3 overview in saying, yes, there is tremendous
4 amount of overlap here between these two
5 facilities that would make one set of data
6 very appropriate for use at a facility that
7 lacks that data.

8 **DR. MELIUS:** Thanks, Hans, I think that's
9 helpful.

10 Anybody else have comments?

11 **MS. MUNN:** If we can all get on the same
12 page with this it would be enormously helpful
13 for all of us I think. And it's of extreme
14 interest not only to the people that we have
15 on the call here, but certainly this is a real
16 hot button for most of the claimants who
17 cannot understand why it would be beneficial
18 for us to be using data from some other site.
19 It's, I think, really important for us to be
20 able to all agree what these guidelines are
21 appropriately without obliterating the fact
22 that we're always going to have judgment calls
23 that are involved here. I see no way we can
24 ever avoid that.

25 **DR. MELIUS:** Other comments?

1 **MS. BEACH:** I have a question. Will we use
2 any of these recommendations to go back and
3 look at previous dose reconstructions and how
4 they were used, or will we just be going
5 forward at this point?

6 **DR. MELIUS:** I think it's, in essence, it's
7 going, in some ways it's going forward, but
8 this -- I don't know how to state this, but
9 essentially the program is sort of always in
10 flux in the sense that procedures are always
11 being updated and changed and so forth. And
12 I'm not, I think we have a, for example, a
13 Procedures work group that's underway and to
14 the extent that we have a document for them
15 relatively soon, they will use that. I think
16 that as always whenever anything changes in
17 this program, if it's felt that it would have
18 an impact on a set of dose reconstructions
19 that had been done in the past where it might
20 need to be reviewed, then I think NIOSH's
21 policy has been to go back and look at those
22 and see if it does change it. But that's
23 probably jumping ahead, and I'm not predicting
24 that's what --

25 **MR. ELLIOTT:** This is Larry Elliott.

1 **DR. MELIUS:** Larry, I don't want to --

2 **MR. ELLIOTT:** If I could, I would speak to
3 Josie's question with this answer. Josie, we
4 here at NIOSH don't believe that we have made
5 use of surrogate data inappropriately up to
6 this point in time. We've been very careful,
7 in fact, with when and where we use it, fully
8 recognizing that it should be used
9 appropriately and to the advantage of the
10 claimant, not to a disadvantage.

11 And that somewhat is in the eye of the
12 beholder I know, but we would, if it comes to
13 pass that we have used surrogate data outside
14 of any guidelines or checklist or criteria
15 that gets established through this
16 deliberative process that we're engaged in
17 right now, we would then go, and if that, in
18 fact, added dose, that changed added dose,
19 then we would institute and implement our
20 program evaluation review to look at all non-
21 compensable claims that came from that misuse
22 of that data. But it's only when we increase
23 dose do we look back at claims. If we
24 decrease dose, we don't go revisiting claims.

25 **MS. BEACH:** Thank you.

1 **MS. MUNN:** My guess would be that what we
2 ultimately determine our suggestions to be
3 will not vary in large degree from what has
4 been done in the past. It's more a question
5 in my mind of whether this needs to be
6 formalized or not. As Larry said, the
7 perception in my mind is that we've seen a
8 very careful use of surrogate data. I'd be
9 surprised if our guidelines strayed from
10 what's been done in the past very much.

11 **DR. LOCKEY:** This is Jim Lockey. From what
12 Hans was saying, the various criteria that he
13 was listing to me seemed to be really quite
14 self evident and I would expect that that, in
15 fact, is what's going on. So if that's what
16 we're sort of looking at and going back and
17 making that a more formal written process or
18 at least guidelines as such, I think that's a
19 reasonable approach to take. It seems logical
20 that the guidelines, if that's the approach
21 that would have been taken rather than the
22 same production year or same type of process,
23 same type of manufacturing process, et cetera.

24 **MS. MUNN:** Or at least reasonably --

25 **DR. MELIUS:** Yeah, with some general

1 parameters on reasonable and so forth. And
2 then I think it helps, but --

3 **DR. LOCKEY:** That's what you're talking
4 about, Jim?

5 **DR. MELIUS:** Yes.

6 **DR. LOCKEY:** Okay, I think that's --

7 **MR. ELLIOTT:** If I might, this is Larry
8 Elliott again, Dr. Melius. If I could offer
9 another comment here. Ancillary to this
10 discussion is this working group I feel really
11 needs to come to grips with, is the use of
12 surrogate data allowed or not allowed. We
13 have the Bethlehem Steel SEC evaluation before
14 the Board and one hold on that is the outcome
15 of your discussion on use of surrogate data.
16 And at some point we really need to move that
17 along, but we also need to come out with a
18 collective consensus about the use of
19 surrogate data.

20 **DR. MELIUS:** I thought you were about to
21 have Liz strike me with lightning again or
22 something. You said allowed. No, I...

23 **MR. ELLIOTT:** At NIOSH and at OCAS, we
24 certainly feel that the law allows us, the
25 regulations allow us to use it appropriately.

1 But the perception on the outside is that
2 that's not read that way, or they don't see it
3 that way. And certainly in the Bethlehem
4 Steel instance we're tolling time on that
5 evaluation for that petition.

6 **FUTURE PLANS**

7 **DR. MELIUS:** No, I think we appreciate that
8 issue. Let me talk about what I see as the
9 way forward because I did try to promise
10 everybody we would do this call within an
11 hour. What I would like to do going forward
12 propose is that I think everybody should take
13 a look at the first, the September 12th report
14 because I think it's just a useful compendium
15 and albeit whether everything's completely
16 characterized or whatever. I think aside from
17 that it's useful just, to me, sort of the
18 breadth and different uses. It was helpful to
19 me in sort of thinking about this issue.

20 And then also again look at the second
21 report and the three criteria. And if there
22 are any sort of general suggestions or
23 something that people would have about the
24 other criteria, major criteria as opposed to
25 sort of the checklist type of criteria. We'll

1 get to the more detailed criteria a little bit
2 later.

3 But I would propose is that people get
4 back to me say within a couple of weeks with
5 any comments or sort of general suggestions.
6 I will work with SC&A to produce a sort of a
7 draft general report that sort of be an
8 outline and codify what we've been talking
9 about today in the form of a draft report that
10 would then circulate to the work group.

11 And say that happens within say
12 roughly three or four weeks from now. That
13 then we would, I think either try to do a
14 meeting or more likely a conference call given
15 just the many work group meetings that are
16 coming up and the holidays coming. I'm not
17 sure that another meeting or something is
18 going to be easy to do, but to have something
19 for discussion and comments so that we can,
20 maybe even by conference call spending a
21 little bit longer, a few hours on this. And
22 then see if we can have something ready to at
23 least talk about with the full Board in the
24 January meeting.

25 **DR. LOCKEY:** This is Jim Lockey. I think

1 that's fine.

2 **DR. MELIUS:** And I will take the
3 responsibility for doing a lot of the, writing
4 an initial draft. I will get some input and
5 help from John and his group to some extent on
6 this.

7 **MS. MUNN:** I have one suggestion with
8 respect to our next steps. Is there any
9 disagreement currently within the working
10 group with respect to the reasonableness of
11 using surrogate data for SECs? Aren't we
12 talking about putting together a document that
13 is secondary to that issue? Have we not been
14 discussing here an applicability that would
15 move across both individual and SEC petitions?

16 **DR. MELIUS:** At some level there I think we
17 try to think of them as being related. That
18 if something is, yeah.

19 **MS. MUNN:** Yes, I do, too.

20 **DR. MELIUS:** Yeah, okay.

21 **MS. MUNN:** I guess my question is do we have
22 any issues within the work group with respect
23 to surrogate data being used in SECs. Does
24 anyone disagree with that?

25 **DR. MELIUS:** But they're not used in SECs,

1 by definition.

2 **MR. ELLIOTT:** This surrogate data goes to
3 dose reconstruction.

4 **DR. MELIUS:** Dose reconstruction. If it's
5 not feasible --

6 **MR. ELLIOTT:** If we can't use surrogate data
7 and that leads us to say we can't do dose
8 reconstruction, then we do an 8314 for a
9 class.

10 **DR. MELIUS:** I think what you're asking,
11 Wanda, is that if a dose constructions can
12 only be done using surrogate data.

13 **MS. MUNN:** Yeah.

14 **DR. MELIUS:** I mean, I think it's sort of
15 the corollary of what you're saying. And I
16 think that, I think we have to sort of, I'd
17 rather answer that question, at least I can't
18 answer that in a general sense, but I think
19 that we would let's produce an evaluation
20 report and set a criteria and it's applied
21 appropriately. And whatever we have pending
22 in terms of you know to the extent it's
23 helpful in your work group's procedure review
24 to the extent that it's helpful in dealing
25 with pending SECs and so forth, that's fine.

1 But I think we need to, I'd rather write a
2 report that doesn't try to think, specifically
3 address particular instances. But rather
4 let's, what are the general criteria and then
5 figure out how it applies.

6 **MS. MUNN:** Yeah, I think we have to do the
7 general criteria.

8 **DR. MELIUS:** And do that in a timely fashion
9 which Larry's request, and I think that's
10 quite appropriate.

11 **DR. LOCKEY:** Jim Melius, Jim Lockey. What
12 about Larry's question? That's a question
13 that we're not going to be able to answer.
14 What I hear is that that's a legal question
15 and Liz and group or whoever has to answer
16 that question. Is that correct?

17 **DR. MELIUS:** Yeah, but I think what Larry
18 was really asking is can we get in a position
19 where we would say that the use of surrogate
20 data is technically appropriate in particular
21 instances. And he obviously I think has, he
22 said he had, he was thinking of the Bethlehem
23 situation which is we do, I don't know whether
24 we tabled it or what our exact action was, but

25 --

1 **DR. WADE:** We tabled it.

2 **DR. MELIUS:** -- it's contingent on us making
3 progress on this particular issue. And I
4 think that's more what he was asking than the
5 issue of --

6 **DR. LOCKEY:** Yes, it was.

7 **DR. MELIUS:** -- appropriateness and -- and I
8 hope Liz is still on the line. We're not
9 trying to address the legal issues.

10 **MS. HOMOKI-TITUS:** Yes, I'm still here. I
11 understand.

12 **DR. LOCKEY:** So, Jim, at the end of this
13 process when we put criteria down as to what
14 Hans was saying, and then look at each one on
15 a case-by-case basis and the process was
16 followed, then the end result one would say,
17 yes, in this case it is appropriate. The
18 criteria are reasonable criteria. They follow
19 general guidelines and using surrogate data
20 under this situation is applicable.

21 **DR. MELIUS:** Yeah.

22 **DR. LOCKEY:** I was trying to figure where
23 we're going --

24 **DR. MELIUS:** Yeah, and then that's exactly
25 where we're going. I think that's what

1 Larry's saying, you know, keep in mind that
2 this has some practical or procedural
3 implications, and we need to get on with it.
4 But that's in some extent what I'm trying to
5 do.

6 **MS. MUNN:** So do you have a feel for when
7 you might be calling us back together?

8 **DR. MELIUS:** Either the week before the
9 Christmas holidays, or I'm suspecting more
10 likely the week after New Year's.

11 **MS. MUNN:** Okay, the week after New Year's
12 we're going to be in Las Vegas.

13 **DR. MELIUS:** But the immediate week after --

14 **MS. MUNN:** Not the day after New Year's.

15 **DR. MELIUS:** Well, not the day after.

16 **MS. MUNN:** Two days after New Year's.

17 **DR. MELIUS:** Well, someone was trying to
18 convince me we'd do a conference call next
19 Thursday on another issue. It also involves
20 NIOSH by the way.

21 **MS. MUNN:** Okay, so it'll be a month.

22 **DR. MELIUS:** Yes.

23 **MS. MUNN:** We need not --

24 **DR. MELIUS:** Again, two weeks for people to
25 get general comments to me on criteria and

1 then within a week or two after that I will,
2 in working with SC&A, we will get the report,
3 at least you'll have the main, the general
4 outline structure of the report. And we'll
5 undoubtedly need refinement and then input
6 from everybody.

7 **MS. MUNN:** Very good. Since I have not been
8 keeping decent notes of the conversations
9 we've been having here, it would be helpful if
10 you'd send us an e-mail --

11 **DR. MELIUS:** I will.

12 **MS. MUNN:** -- defining what you want from us
13 and when you want it.

14 **DR. MELIUS:** Okay, I'd be glad to.

15 **MS. MUNN:** Thank you.

16 **DR. MELIUS:** Other comments? Jim?

17 **DR. LOCKEY:** No.

18 **DR. MELIUS:** Mark, are you --

19 **MR. GRIFFON:** Still here and nothing to add
20 though. I'm still here and nothing to add.

21 **DR. MELIUS:** If we've done then I think we
22 can close off.

23 **MR. ELLIOTT:** Dr. Melius, this is Larry
24 Elliott. Given what you've just decided here,
25 does it still make sense I would ask to go

1 ahead with revealing and redacting the
2 September 12th working paper or not?

3 **DR. MELIUS:** Yes, I think it would simply,
4 again, I'm just more comfortable having our
5 documents publicly available.

6 **MR. ELLIOTT:** That's fine.

7 **DR. MELIUS:** The nature of the document
8 isn't such that I don't --

9 **MR. ELLIOTT:** I guess then that John will
10 need to get that to Emily.

11 **DR. MELIUS:** Yeah, right.

12 **DR. WADE:** Yeah, he said he would take that
13 as an action.

14 **DR. MELIUS:** Okay, thanks everybody.

15 **DR. WADE:** Thank you, very well done.

16 **MS. MUNN:** Thank you.

17 (Whereupon, the meeting was adjourned at
18 3:23 p.m.)

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I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of Nov. 16, 2007; I, Steven Ray Green, then transcribed the proceedings, and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 12th day of December, 2007.

STEVEN RAY GREEN, CCR

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