This transcript of the Advisory Board on Radiation and Worker Health, Idaho National Laboratory/Argonne National Laboratory-West (INL/ANL) Work Group, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the INL Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

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

+ + + + +

ADVISORY BOARD ON RADIATION AND WORKER HEALTH

+ + + + +

IDAHO NATIONAL LABORATORY/ARGONNE NATIONAL LABORATORY-WEST WORK GROUP

+ + + + +

THURSDAY
SEPTEMBER 8, 2016

+ + + + +

The Work Group convened via teleconference at 10:30 a.m. Eastern Time, Phillip Schofield, Chairman, presiding.

PRESENT:

PHILLIP SCHOFIELD, Chairman JOSIE BEACH, Member JAMES M. MELIUS, Member GENEVIEVE S. ROESSLER, Member This transcript of the Advisory Board on Radiation and Worker Health, Idaho National Laboratory/Argonne National Laboratory-West (INL/ANL) Work Group, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the INL Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

ALSO PRESENT:

TED KATZ, Designated Federal Official NANCY ADAMS, NIOSH Contractor BOB BARTON, SC&A RON BUCHANAN, SC&A PETE DARNELL, DCAS MITCH FINDLEY, ORAU Team BRIAN GLECKLER, ORAU Team STU HINNEFELD, DCAS JENNY LIN, HHS JOHN MAURO, SC&A AMY MELDRUM, SC&A JIM NETON, DCAS STEVE OSTROW, SC&A JOHN STIVER, SC&A TIM TAULBEE, DCAS

This transcript of the Advisory Board on Radiation and Worker Health, Idaho National Laboratory/Argonne National Laboratory-West (INL/ANL) Work Group, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the INL Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

Contents

Welcome and Roll Call	4
NIOSH and SC&A Updates on Current Activities	б
Work Group Discussion: Priorities/Plans 1	3
Reactor Studies and/or Other Activities 1	3
Adjourn 68	8

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

10:29 a.m.

Welcome and Roll Call

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

MR. KATZ: Welcome, everybody. This is the Advisory Board on Radiation and Worker Health. It's the INL/ANL-West Work Group. I think this is not a very long meeting today, but we're trying to address some priorities.

The agenda for the meeting is posted on the NIOSH website under the Board's schedule of meetings section, today's date. The agenda is There are not other materials to go with it because there have not been other materials distributed. But for anyone on the line who might be interested, one of the things we're talking about today is priorities with respect -- I think we're talking about today -- is priorities with studies to doing of reactors and respect feasibility of dose reconstruction for t.he different reactors with the current methods that we have.

And the two papers related to that were brought up and discussed, briefly at least, at the last INL Work Group meeting, which was back on, I think, August 4th, I believe -- 2nd or 4th. So if you want, you can go on that NIOSH website for that date, schedule of meetings, and those papers are posted, not that I would expect people to read them as we're having the discussion, but they are there afterwards if you're interested in those papers. There is one from NIOSH, and there is one from SC&A. So with that all said, then, let me just get into roll call. And let's begin with Board Members now. Everyone else, please speak to conflict of interest. My Board Members don't have conflicts for this site, so I'll just say that to But let's see who is on the line. (Roll call.) Alright. MR. KATZ: So that takes care of things. We have a lot of staff and so on on the line, so please everyone remember to mute your phones, except when you're addressing the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 group, and *66 to mute your phones. 2 And Phil, it's your meeting. 3 CHAIRMAN SCHOFIELD: Okay. As far as the reactors go, I would like to here start off with 4 SC&A and their response to the White Paper that was 5 put out by NIOSH on the prioritization of OTIB-54 6 evaluation. 7 8 NIOSH and SC&A Updates on Current Activities 9 MR. STIVER: Okay. This is John 10 I guess I can kind of lead off and let Steve kind of jump in. 11 basically finished 12 We 13 response paper to NIOSH's concerns that Tim raised 14 the earlier meeting. And we've also, 15 conjunction with that, done a comparison, you know, 16 checked on the claimant, the NOCTS website and so 17 forth, to identify the numbers of personnel and, basically, the dose ranges that they would have 18 19 been subjected to over periods of time for the 20 different reactors of concern. Steve, I guess you could kind of give 21

1 a little cameo about that. Before he does, though, I can say it is -- you should have a copy of it, 2 3 you know, should have it for the Work Group, probably sometime next week. 4 5 DR. OSTROW: Okay. Hi, this is Steve. 6 We pretty much finished our paper, as John was It just has to go into final editing and, 7 you know, clearance, et cetera, et cetera, et 8 9 cetera, but it should be with the Work Group shortly. 10 11 Just a little bit of quick history, if 12 people don't remember these things. We had put 13 out, in June and July, an INL Reactor 14 Prioritization Report and an ANL-West Reactor 15 Prioritization Report, two separate reports, with our thoughts on what priority NIOSH should address 16 detailed 17 some issues we've had with the applicability of OTIB-54 to model reactors. 18 19 NIOSH subsequently, on July issued a proposal -- Tim Taulbee put it out -- a 20 21 proposal responding to our report on what the reactor priorities should be. And they presented it at the last Work Group meeting, which was August 2nd.And they had made the good suggestion to consolidate the INL and ANL-West reactors, since it's basically the same type of technical work they would be doing for all the reactors and no sense in keeping it separate. And they had made I think it was eight recommendations altogether. In some cases, they accepted our list of prioritization, our high priorities. In a few cases, they didn't think that it was correct, and in a few cases, they had sort of a compromise. At the August 2nd Work Group meeting, the Work Group asked SC&A to respond to NIOSH's report. And this would basically set blueprint for how NIOSH would go ahead and evaluate the reactors, you know, according to OTIB-54, which would require apparently a lot of technical work using the ORIGEN code, et cetera, et cetera. The Work Group also asked SC&A,

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

addition to considering the technical aspects and neutronics, to also look at what's the potential for radiation exposure of personnel. You know, you can have an extreme case with a reactor that is way outside the bounds of OTIB-54, but the potential for exposing personnel is very low, so that shouldn't be given a high priority. other hand, you might have another reactor, at the other extreme, which is outside of OTIB-54, but not tremendously, but it had a big potential for exposing people, so that might be given a higher priority. So we did our report. It's unfortunate we didn't get it to you before this meeting. In I took a look at NIOSH's proposals with two parts. respect to the neutronics. And Bob Barton went ahead and did a deep dive looking at dosimetry records, et cetera, to see what the potential was for exposure of personnel. And in our response in this report, which you don't have in front of you, we agreed with

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

the NIOSH with some of the cases, and we disagreed with some of the other some of their ones, proposals. So, I don't know if it's really proper at this time -- and John, you can weigh in. I could give results over the phone right now, but we didn't actually finalize the report yet, and the Board does not have it in front of them. What do you think about that? Should I actually just read off the results? Can I -- this is Ted. MR. KATZ: Ted, yeah. DR. OSTROW: MR. KATZ: Maybe, if the Work Group Members don't object, I can make a suggestion. think, right, no one has it in front of them, but I think this would be then an opportunity still, if you can explain things with sufficient detail, it is an opportunity for NIOSH to get clarification on matters that may not be clear to them, and that may save some time down the road. I don't know. It depends on how complicated all

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	of this is, but that's
2	DR. OSTROW: No, our summary response
3	is we have one of our tables, Table 5, which I
4	have in front of me, actually. And I could go
5	through the eight NIOSH recommendations and our
6	response, and our responses are fairly short. I
7	mean, I think could cover the whole thing in about
8	15 minutes, probably, or 10 minutes.
9	MR. KATZ: Yes, we have the time,
10	Steve, unless the Work Group Members don't want to
11	go down this road.
12	MEMBER MELIUS: Well, this is Jim
13	Melius. While I don't have any objections to
14	hearing a summary of it, I'm not about to make any
15	recommendations or any decisions until I've seen
16	a report.
17	MR. KATZ: Right, and I wasn't
18	MEMBER MELIUS: And so that should be
19	understood, and I don't want to get into a long
20	debate about, you know, results. And, frankly, I
21	think NIOSH should have the opportunity to also see

that, before we can discuss this report, so anything in terms of priorities on reactors, I think both NIOSH and the Work Group need an opportunity to review the report. KATZ: Right. And just to be MR. clear, Jim, Ι wasn't suggesting anything otherwise. I was just -- sometimes, whichever side, SC&A or NIOSH, they need clarifications about how one got to whatever conclusion one got to, and sometimes it's a good way to do it. MEMBER MELIUS: No, I wasn't objecting to doing it, I just wanted it understood up-front that we weren't going to -- I wasn't prepared to act on this. Right. MR. KATZ: This is Tim Taulbee. DR. TAULBEE: do have a question along the lines of what you're talking about, Ted, because Ι do have some confusion on the reports that had come previously. I saw John Stiver sent an email earlier this week, and it was bringing up some of

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

the MTR concerns, as well as Initial Engine Test #10, and I guess you were correct, or partially correct, in your email, John, that we, NIOSH, didn't address those as part of our response. that was because I was under the, I misunderstanding that the Reactor Prioritization Rev. 1 was the final for INL, and the ANL one was the final for ANL. So we were just working off of those two reports and had not gone back to that November report. And so my question is, this next report that you guys are coming out with with all of this rolled together, does it combine all three of those reports from SC&A, or is it just the most two recent ones? Work Group Discussion: Priorities/Plans Reactor Studies and/or Other Activities DR. OSTROW: Tim, the report that we have right now that we're working on just has the two latest reports. It doesn't include the one that I had done on TRA, where we looked at a few

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

of the reactors, and the one that John Mauro did on TAN. It does not include all of that in it because I think the way it evolved is that, after we did the TRA and the TAN reports, we were told by the Work Group, whatever, we decided to go ahead and look at the reactors that weren't included in those two earlier reports, so there might have been a little confusion here.

And to tell you the truth, what happened is that, when I was writing this latest report, it dawned on me, you know, it sort of occurred to me, jogged my memory, that we had those two earlier reports where we addressed some TRAand TAN-specific issues. And I had written an email to John Stiver just to, you know, sort of put it on the table that we should also figure out, since, you know, today we're figuring out where we're that this shouldn't fall going to go forward, through the cracks, it should be addressed somewhere. So that's a little bit what happened.

DR. TAULBEE:

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

But could I ask that that

get rolled into this report so that we have a kind of complete finalization? Because they all are kind of similar here of how we are applying OTIB-54, and so I'd love to hear what the Work Group's priority is for addressing all of them, not just these last two, but also those previous two reports from November. That would be okay with DR. OSTROW: It would delay our getting out the latest me. report by a few days to roll it into it. Stiver, what do you think? You know, to the extent MR. STIVER: that it kind of puts everything on the table in the one report, as opposed to having to deal with the time lag and the types of things that were going on since last year, it would probably be -- I think it'd be better to just go ahead and roll them all into one. DR. OSTROW: Okay. So just to be clear with the Work Group, this will probably delay things like a week or two.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	MEMBER ROESSLER: This is Gen. I
2	think it would be worth the time to do it that way.
3	DR. OSTROW: Okay.
4	MR. KATZ: Okay, Steve, go ahead.
5	Thank you.
6	CHAIRMAN SCHOFIELD: I have no
7	objection to that.
8	DR. OSTROW: Okay. Okay, so we'll go
9	ahead and do that. We have the two original
10	reports, so we should be able to roll it in. It's
11	just a question of, you know, rewriting and
12	formatting a little bit so it all hangs together.
13	Alright. So let me just go now, just
14	for future reference, this is Table 5 of our latest
15	report that people haven't seen. And we respond
16	to NIOSH's eight points and their recommendations.
17	The first one is simple: NIOSH proposed
18	merging INL and ANL-West high priority category
19	reactors for the evaluation of OTIB-54
20	applicability. So, we concur with that. That
21	will roll them all together.

Number two, NIOSH proposes that Okay. the Loss-of-Fluid Test Facility, LOFT, be removed from consideration for evaluation of OTTB-54 applicability this time due nuclear at to operations not commencing until December '78. And our response is -- I have to read our response here. SC&A recognizes that Okay. the first five LOFT experiments were non-nuclear thermal hydraulic experiments, and the potential for radiation exposure did not occur until December '78, which is after the INL SEC period. SC&A believes that, given this facility's size, long operating history, beyond-design-basis operating scenarios, and potential to have exposed a significant number of personnel, the LOFT reactor merits a more detailed examination with respect to whether it can be adequately modeled by OTIB-54, and such an examination could be conducted as a Site Profile exercise. So, this is just to keep track of it. Perhaps it's not an SEC issue because it's outside

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	the time period, but we shouldn't lose this, the
2	LOFT reactor. We should make a note somewhere,
3	wherever we make notes on these things, that it
4	might be a Site Profile issue. I'm not sure how
5	we deal with that.
6	DR. TAULBEE: This is Tim. Could I
7	interject here for a second?
8	DR. OSTROW: Yes.
9	DR. TAULBEE: I fully agree, and I
10	think the Work Group can easily move this to a TBD
11	issue to be revisited once we get the SEC closed
12	up. And so it can certainly be added to the TBD
13	issue, which, to me, is where it should be.
14	DR. OSTROW: Yeah, I agree. I just
15	want to make sure that we have a good mechanism that
16	we don't lose these things somewhere.
17	DR. MAURO: This is John Mauro. I
18	think I'd like to also add another dimension to this
19	discussion. I know we're making segregations
20	between TBD and SEC issues, and this LOFT
21	discussion is a good example of something that I

1 sort of had on my mind. I think there's general agreement that 2 3 we are really immersed in a process regarding reactors now where when OTIB-54 could be used in 4 a claimant-favorable way, and times when perhaps 5 6 it can't. And we've got a long list of reactors that we're looking at and selecting for more 7 detailed consideration. 8 9 The fact that we will refer to this, let's say, LOFT discussion now as a Site Profile 10 11 issue implies that if you cannot use OTIB-54, there 12 are other ways of dealing with this. Am I correct 13 in presuming that the implications are that when you do have a unique circumstance where 54 doesn't 14 give assurance you could get a claimant-favorable 15 16 result, the solution is to actually run ORIGEN and not use the default set of OTIB-54 mixes, but come 17 up with a mix that applies to that particular 18 19 reactor? I ask the question because if it's the 20 21 general consensus that that is your solution and that it will work, the implications are, yes, the doses can be reconstructed, but they have to be dealt with on a case-by-case basis because of the unique nature of each reactor. So, on that basis, if that's the general sense that, yes, it is a manageable, tractable problem, then I would agree that, okay, we're dealing in Site Profile space. And I quess I would like to get a sense from folks if I'm thinking about this correctly. That is, it is a manageable problem. Just because you can't use OTIB-54 doesn't mean you can't reconstruct doses. This is Tim. DR. TAULBEE: That is However, I wouldn't rule out, if correct, John. we were to do this and we did run into some other unique problem, if for some reason ORIGEN didn't work for the reactors along this line, or something along those lines, there is still another avenue,

and that's the 8314 process for there. So there

current focus is trying to close out the current

are other issues along that line.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

I quess my

SECs. And so as long as you don't lose that this
evaluation needs to be done, I would like to propose
that we just move it to the TBD to address after
we get the SEC buttoned up.
DR. MAURO: And I appreciate the
answer, and I agree. As an 8314 solution, on those
rare occasions when that might emerge, that does
bring us into SEC space.
DR. TAULBEE: It does, but it brings us
in through a different avenue.
DR. MAURO: Okay. Okay.
MR. STIVER: This is Stiver. I'd like
to interject something at this point. I think that
we're
MR. KATZ: Just before you do, someone
is typing rapidly. Can you just mute your phone?
Because it is pretty loud, at least on my end.
Thanks.
MR. STIVER: Anyway, I was just saying
there were two areas that really we thought were
more related to data adequacy and completeness,

which kind of comes to bear more on the SEC side of the house. And, you know, I think Josie had sent around this one-page memo a little earlier, a couple weeks ago, to the rest of the Work Group. One was the Chemical Processing Plant in years pre-1963, and the other was Burial And then the other aspect in what we're talking about here with the reactor modeling really has to do with technical feasibility. And these are things like, you know, Hans's paper on general air versus breathing zone sample applicability with 54 and the reactors that we're talking about And then some of the follow-on investigation now. which Ron was doing about, you know, it wasn't the data that are out there and content and so forth actually comport well with OTIB-54 predictions. And those can really go either way. They're an SEC, as Tim was saying, with an 8314 type of solution, or could be deemed to be Site Profile issues, depending on, you know, what the findings are from those investigations. So, I feel like

1

2

3

4

5

6

7

9

10

11

12

13

14

15

16

17

18

19

20

_	
1	we're sort of jumping around a little bit here, but
2	just to kind of set the table, you know, the big
3	picture here.
4	(Pause.)
5	MR. STIVER: But anyway, go ahead.
6	Continue.
7	DR. OSTROW: Okay. So we're up to
8	NIOSH's recommendation number three. NIOSH
9	agrees with us that the OMRE reactor that's the
10	Organic Moderated Reactor Experiment, OMRE
11	should be evaluated for OTIB-54 applicability due
12	to its unique moderator and coolant.
13	And so we agree with NIOSH agreeing with
14	us. And we added that after Bob Barton did his
15	looking at dosimetry records, there appears to be
16	a significant potential for exposure of hundreds
17	of regular workers and visitors. We have a lot of
18	data on that, and there was a lot of people that
19	could potentially have been exposed to OMRE. So
20	we are in agreement, NIOSH and SC&A.
21	The number four, NIOSH's

recommendation number four: NIOSH agrees with us that the Power Burst Facility, PBF, should be evaluated for OTIB-54 applicability due to the use of ceramic fuel. And we agree with NIOSH's agreement and note that also, based on the limited data available -- we only had a few years of -- we only had data for the first few years of operation of the Power Burst Facility -- there appears to be potential exposure for mostly less than 100 regular workers and visitors. I think only one year we went over 100, but the rest were, a few of them, So, for Power Burst Facility, we agreed to 100. be evaluated. is item five, Next NIOSH's one recommendation five. This has to do with the SPERT reactor test. That's the Special Power Excursion Reactor Test, and there were several of them. NIOSH proposes that a model for the most extreme experiment from all the SPERT tests, in terms of possible departure from OTIB-54, be represent the bounding case to cover all four SPERT

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

reactors.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

So NIOSH is basically proposing, look at all the experiments that were done -- use that for detailed analysis with ORIGEN. We disagreed with NIOSH's recommendation. said We t.hat. although the four SPERT reactors were all part of of the series reactor experiments subjected the reactor system to large reactivity excursions, we still think that the reactors differed significantly from each other and should be examined separately, and perhaps by choosing the worst case for each reactor. So, rather than having one worst case for all the SPERT reactors, we are suggesting that it might be better to look at the worst case for each individual reactor. And we just make a little addition that whatever NIOSH decides to do, that when they write it up, they should have, you know, sufficient detail justifying how they picked what they thought the bounding case was.

Tim, do you have any comments on that?

1	DR. TAULBEE: No, not at this time. I
2	would like to read your
3	DR. OSTROW: Yes, of course, of course.
4	But yeah, you sort of agree that, whenever you make
5	choices like this, you need sufficient in the
6	report, you know, sufficient backup why you chose
7	a particular case as the worst case.
8	DR. TAULBEE: No, that part I fully
9	agree with.
10	DR. OSTROW: Yeah, that's just a
11	general comment, yeah.
12	DR. TAULBEE: Yeah, it's more of the
13	differences of the reactor designs as your basis
14	that I really want to look at.
15	DR. OSTROW: I understand, got to look
16	at it more carefully. And we might be wrong too,
17	you know. If you come back with, you know, a fuller
18	discussion why you think you can bound it with only
19	one case, then we will look at that too.
20	DR. TAULBEE: Okay.
21	DR. OSTROW: Number six NIOSH

recommendation is related to the Boiling Water Reactor Experiment, that is, BORAX. And NIOSH notes correctly that the BORAX experiments I, II, and III all ceased operations before the end of the SEC period for ANL-West. So NIOSH proposes that BORAX through III be removed from the consideration for evaluation of OTIB-54 applicability as their operating years are covered by the SEC period, and bioassay data is known to be incomplete and the infeasibility to reconstruct doses has already been established. Okay. So, that the NIOSH was assessment. And NIOSH agrees that BORAX-IV, which is within the period, should be evaluated for applicability OTIB-54 due its of to use uranium/thorium oxide fuel. But then NIOSH proposes that BORAX-V be from consideration for evaluation of OTIB-54 applicability. It's а very configuration to BORAX-IV, but it just added a superheating section, steam which we

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 shouldn't really affect the neutronics of the 2 reactor. 3 So, in short, we agree with NIOSH with respect to the BORAX reactor experiments. 4 NIOSH's recommendation seven, this has 5 6 to do with the Experimental Breeder Reactor I, And EBR-I had several different cores that 7 were tested over the years, and NIOSH proposes that 8 9 the most bounding of the last two EBR-I cores be While it was initially believed that the 10 used. 11 plutonium core would be bounding, some preliminary 12 modeling would be needed to be performed on all four cores to confirm this. 13 14 So, we agree with NIOSH. And we just note that, when we looked at the occupancy, that 15 16 several hundred workers and visitors were present 17 during the period of operation for the Mark IV core. That's their last core that we had data for. 18 19 we agree. The last recommendation by NIOSH, this 20 21 has to do with Experimental Breeder Reactor II,

1 And NIOSH agrees with SC&A that EBR-II EBR-II. 2 should be evaluated. And we note, based on our 3 additional study, that several hundred workers and visitors could have been exposed each year. 4 in some years, the average worker-penetrating 5 6 doses were greater than 100 millirem. So we're just basically in agreement with NIOSH. 7 So I think when NIOSH looks at our 8 9 we're in agreement with most of the There's a few that are up for 10 recommendations. 11 discussion. And as we just discussed a few minutes 12 ago, we're going to also roll in now the summaries 13 of the two earlier reports we had from TRA and the 14 TAN reports. So, as Tim suggested, this will be All the reactors will be in one place, 15 convenient. 16 and NIOSH can make its plan for how they're going to address things all working off one report. 17 18 So, that's it. I am done. 19 (Pause.) CHAIRMAN SCHOFIELD: Tim or anybody 20 21 have any comments on these?

1	DR. TAULBEE: The only comment I have
2	is thanks, Steve, for going over that. That does
3	help, and I look forward to seeing the report.
4	DR. OSTROW: Okay. Very good. I just
5	want to make a separate comment.
6	I just want to praise Tim a little bit
7	here in the Work Group meeting. Tim came out a few
8	days ago with the INL Facility Quick Reference
9	Guide, which I think he did because the Board wanted
10	something like this. It's really, really good.
11	It has great illustrations, it's a great summary
12	of all the different reactors, and it impressed me
13	where you can jump from one section to the other
14	just by clicking on things, you know, hyperlinks.
15	So I just want to say, nice job, Tim.
16	MEMBER ROESSLER: This is Gen.
17	Thanks. Am I off mute?
18	DR. OSTROW: Yeah, we can hear you,
19	Gen.
20	MEMBER ROESSLER: Okay. I appreciate
21	your saying that, Steve. I think I'm responsible

1	for suggesting this, and
2	DR. OSTROW: Okay. Good job, Gen,
3	then.
4	(Laughter.)
5	MEMBER ROESSLER: Well, initially, I
6	thought maybe a simple matrix would do it, a couple
7	pages in Excel, but I can see now that would not
8	have worked at all, probably. This was really
9	creative and very well done. I find it very
10	useful. And I think, maybe from a Work Group
11	Member point of view, this sort of thing is useful
12	because we have other things we do most of our
13	lives, and we come into this on occasion, and we
14	have to get up to speed on everything, on a site.
15	And with a large site like this, this is just
16	extremely useful to just, bingo, you get right back
17	into it. So, thanks, Tim.
18	DR. TAULBEE: You are quite welcome,
19	and thanks for all of the good comments on that.
20	I do have one question, I guess, for the
21	Work Group. Do you want this to be, I guess,

available to the public type of standpoint, that we should go ahead and go forward with the way it is? Or are there other comments that people have on it? Well, I guess I'm looking for feedback from you all. MEMBER ROESSLER: I'll chime in again, and I hope to hear from others, too. You asked does this summary have enough information in it, and I think it does. Certainly, one of the pluses of it are the photos. I think that helps a lot. also very, very useful to click back and forth, as Steve said. Whether it should be made available, I would say yes, if it's not too time-consuming. Ιt does need a few edits, but I think we have to leave that up to -- well, maybe others want to chime in to evaluate whether it's worth that much time. This is Steve. DR. OSTROW: I think it's really going to be useful. I'd just suggest, if you're going to make it public, that you just mention somewhere that if people want

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

information, they should consult Susan Stacy's Proving the Principle tome, which has great detail on the whole history of INL. You know, mention that somewhere. DR. TAULBEE: Okay. CHAIRMAN SCHOFIELD: Has this been checked to make sure there's nothing that could any problems from the standpoint classification? I mean, I've looked at it, but I mean, if we were to put this out for the public. Well, it has to DR. TAULBEE: through that review as well as a PA review. Some of the photos that are in there do show some people's faces. I think those have to be blurred And so I think there are some -- well, there is some additional work. If the Work Group wants to keep it for their own personal -- or for their own use, which is what it was intended for, that's fine. I think it is good the way it is. But if you did want it to go out further, then there is 508 compliance and

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

other things that have to be done to it. So I was looking for feedback as to what you all want to do with that document. Tim, this is Josie. MEMBER BEACH: Ι have glanced at it but haven't had an opportunity yet this week to really read it, so I'm going to withhold any comments at this time. DR. TAULBEE: Alright. That's fine. CHAIRMAN SCHOFIELD: My question is, how much time and effort would it take to polish this up? And how much would be lost in order to send it out to the general public? If that's going to take a lot of time and effort and money, I would be inclined to not put it out. Maybe at a later this time, with the number but at priorities we have, number of things we're looking at, I kind of hate to commit too much time to it. TAULBEE: Okay. Yeah, it will take time in order to do those things that I talked So, yeah, how much time? I don't have a I don't know all of the 508 compliance good feel.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	type of things that have to be done to it. Sorry
2	I can't give you a better estimate of the level of
3	effort to fix that. I'd have to get with some other
4	folks to find that out.
5	CHAIRMAN SCHOFIELD: I just feel there
6	are higher priorities at this time.
7	DR. TAULBEE: Okay. I concur.
8	CHAIRMAN SCHOFIELD: Anybody else?
9	MEMBER MELIUS: This is Jim Melius. I
10	agree.
11	MEMBER ROESSLER: Go ahead, Jim.
12	MEMBER MELIUS: I'm just saying I agree
13	with Phil and Tim. We have other priorities right
14	now.
15	(Pause.)
16	CHAIRMAN SCHOFIELD: There's a couple
17	of other things that we haven't brought up here.
18	We've been talking about the reactors, but I know
19	we have some interviews coming in November and
20	probably December, some of the fire department
21	personnel. I was wondering if any of the personnel

from the guards or their union are going to be interviewed too, because we have questions about the CPP and, you know, what happened when there was a response from -- I mean, you obviously have a few people that are located nearby. But then again, depending on the issue and, you know, how many personnel are out on vacation or sick leave, et cetera, that would impact bringing people who would not have exchange badges into the area to answer they are fire department alarms. whether security alarms. Well, as you mentioned, DR. TAULBEE: Phil, we are focusing on the fire department. have interviewed a couple of security individuals. One of them we want to bring back to ask more specific questions about that. But the most recent interview was with a security individual who indicated that he had badges there at each of the facilities. So, like Ι said, will be interviewing least at one other security personnel, but the focus was going to be on

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 firefighters, so that was kind of the goal. 2 If you want more security guards, we can 3 certainly add a few more to that. I didn't want to infringe too much on -- I believe Joe mentioned 4 that you guys wanted to do some more 5 6 interviews with some more -- I don't know if it was CPP folks or Burial Ground folks -- I think it was 7 Burial Ground. But you're also looking at the 8 9 matrix, so I was trying to limit I guess our -- we have about 15 interview slots for the week, and so 10 11 I was trying to limit ours to five to six and leave 12 the rest for Joe and John to decide on. Yeah, this is John. 13 MR. STIVER: Τ 14 know Joe is interested in trying to run the Burial Hopefully there are some more people, you 15 Ground. know, in that early period, pre-1970 period, that 16 he's interested in looking at. 17 And Lynn is working on a 18 DR. TAULBEE: 19 matrix right now, correct? STIVER: Lynn is about halfway 20 MR. 21 As of the day before yesterday, she had through.

done a little over 30 of I think it was like 70 total that we had already interviewed, just to identify, you know, if there are any stones that have not been turned yet, if there are gaps that we really need to take a closer look at. And as expected, that should be done in a couple of weeks, I would think. this is So. John. Ted. Just question. Does that matrix give a sort of very brief thumbnail on what topics were covered by the interviewee? Right, that's the idea, MR. STIVER: just to kind of -- there were many different interviewees and to kind of get it altogether in one document where you can really see what topics were covered and what areas that may be, to the extent that there are, additional people out there that they can be interviewed and where we would want to go to really amass them under the economy of the that we don't spend a lot of money unnecessarily. I think we have talked to DR. TAULBEE:

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	enough reactor operators.
2	MR. STIVER: Yes. Yes, exactly.
3	That would be a perfect example.
4	And as I said, that matrix should be
5	finished up here within a couple of weeks, I would
6	imagine. Probably not much longer than that.
7	Certainly enough time to coordinate with Tim and
8	the rest of the NIOSH people for the November
9	interviews.
10	DR. TAULBEE: Should we try to have a
11	technical call?
12	MR. STIVER: Yes, I was just going to
13	suggest that. I think it would be a good idea to
14	have that technical call just to really make sure
15	that we everything lined up appropriately.
16	CHAIRMAN SCHOFIELD: I just have one
17	major question there that I want answered.
18	Obviously, the fire department, depending on what
19	the response is, will not have the time to stop and
20	exchange badges. But I would like the question
21	answered was for all the guards, did they all have

exchange badges there or only a select group that were maybe stationed normally in that area? don't know how their security system was set up, whether they had, in particular, different zones or did people move from area to area, depending on the workload that they might need more people or what was going on. The fire department, I think question can be answered there in interviews. But it seems like that particular question has not been answered to my satisfaction, whether all the guards, all security personnel had exchange badges there. DR. TAULBEE: Again, Phil, can interview some more quards, if you want. quard that we interviewed, he indicated that he had a badge at each of the facilities that he went into. But we can certainly interview more. And I do want to interview the one individual was responding on that the night of SL-1. So, he is one of the people we are looking to interview again

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

because he was a guard at that particular event but we didn't ask him the question the way you were asking it just now. So, I want to ask him that as well. CHAIRMAN SCHOFIELD: Well, I Okay. would be interested in hearing or finding out. And maybe even whoever is -- if you can find some of those people still around, who was in charge of badging and stuff for the entire site. And maybe it broke up between ANL and INL. I don't know. It seems to me they should have some documentation that says yes, everybody who went in that area had an exchange badge, regardless of what area of the site they worked on for like security or did only certain people have those exchange badges. Ι think this will addressed be adequately, I would hope, during the interview with the fire department. It is just a thought of mine that somebody should have that answer and it should be documented somewhere in their security plans.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 Anybody else have any comments? This is Jim Melius. 2 MEMBER MELIUS: 3 Not on that but I have a couple of other issues I'm trying to understand regarding the SEC or potential 4 5 SEC. As I recall, we still haven't settled 6 on -- there is a number of reserve years after the 7 current SEC for the Chemical Processing Plant and 8 9 some years before. I believe it is '63 or '64, something like that, before that where there was 10 11 some uncertainty for that. And I'm just trying to 12 understand where we are in terms of the evaluation of that, both NIOSH and SC&A. 13 This is Tim with NIOSH. 14 DR. TAULBEE: What we are working on is an ER addendum and we are 15 16 working to get that to the Board -- to the Work Group in early to mid-November, is our current schedule 17 The three time periods that 18 from that standpoint. 19 we are looking at are Test Area North 1961, I believe, up to 1965, where they were working with 20 21 The other two areas, one is the hot some uranium.

1	cell ARA-1. This would be 1968, March of 1968. It
2	was a separations of protactinium that was
3	conducted there in a very short time period, like
4	a week type of time period. And then the final one
5	is the retrieval of drums from the Burial Ground
6	in November of 1969. And so those are the three
7	areas that will be addressed in the ER addendum.
8	Those are the reserved areas that we have that we
9	do plan to address.
10	MEMBER BEACH: Tim, this is Josie.
11	That last one, or the second to the last one, the
12	hot cell ARA-1, you said from '68. Is that just
13	for
14	DR. TAULBEE: It was just in March of
15	1968.
16	MEMBER BEACH: Just that one month,
17	okay.
18	DR. TAULBEE: Yes. When we were doing
19	the ER originally, we ran into these things and were
20	basically running out time to research the details
21	of when it happened and about what happened and so

1	forth. And we have been able to narrow it down
2	well, identify it as March of 1968. Well, you see
3	the ER addendum when it comes out.
4	MR. STIVER: Tim, this is John Stiver.
5	Are you going to handle the reserve years at CPP
6	through a different mechanism then, like an 83.14,
7	then, or how is that going to work?
8	DR. TAULBEE: You're talking about the
9	time period post-1974.
10	MR. STIVER: Yes.
11	DR. TAULBEE: Yes, that is going to be
12	handled under an 83.14.
13	MR. STIVER: Okay, I just wanted to
14	make sure I was clear on that. Thank you.
15	DR. TAULBEE: Yes.
16	MEMBER BEACH: So, Tim, what is the
17	priority on that 83.14?
18	DR. TAULBEE: Well, that is one of the
19	reasons I am glad you are all on the call here today
20	because I think there may be some misunderstanding
21	there.

When we last talked the second of
August, I guess my marching orders, from the way
I understood it, was to work on the to finish
up the ER addendum, the reserve areas that we have
got to get done, and then my original plan was to
go on to the 83.14. However, I believe the Work
Group and Dr. Melius, I believe you were the one
who wanted us to address the air sampling issue with
ANL-West next, before that 83.14, before we pursued
that. Is that still our marching orders from a
priority standpoint?
MEMBER MELIUS: That was not I just
as I recall and it is in a transcript someplace,
but all I said is I wanted that issue at least left
open, the air sampling issue. It is a question to
be answered, not necessarily as a higher priority
than some other issues.
DR. TAULBEE: Okay, I misunderstood
you, then. I mean, we wouldn't obviously, we
wouldn't close one of these issues without a
report.

1	MEMBER MELIUS: Yes.
2	DR. TAULBEE: I mean, it's certainly
3	going to remain open.
4	MEMBER MELIUS: Yes, and as I recall
5	from that meeting, we when sort of got I want to
6	say bogged down but then we went into a long
7	discussion on the reactors and so forth and
8	prioritizing them.
9	I just didn't want the air sampling
10	issue to get shut it off completely until it had
11	been evaluated. That was all.
12	So, I would think the reserved area,
13	overall, is higher priority, simply because I think
14	it affects more people.
15	DR. TAULBEE: Okay, so the ER addendum
16	is the reserved area.
17	MEMBER MELIUS: Okay.
18	DR. TAULBEE: Now, the other issue is
19	the 83.14.
20	MEMBER MELIUS: The 83.14, that's
21	right. I'm sorry, yes.

1	DR. TAULBEE: Okay, the 83.14, which
2	just so everybody is clear on this, we committed
3	that we would look at that time period beyond what
4	the petitioner had originally asked for. And if
5	we found an infeasibility beyond 1975, that we
6	would initiate an 83.14.
7	And what that means is we go through,
8	we do the evaluation much like a regular SEC
9	evaluation. And then if we find an infeasibility,
10	then we find a petitioner and we will then go
11	through and make the recommendation.
12	So, after this reserved area, that is
13	what you want us to address next, correct?
14	MEMBER MELIUS: Yes, that is my
15	preference.
16	MEMBER BEACH: I agree with that.
17	DR. TAULBEE: Okay, that's not a
18	problem.
19	MEMBER BEACH: And then what about the
20	Class Definition question that we have been
21	struggling with? Where are we with that?

Yes, hi, Josie, this is 1 MR. BARTON: 2 Bob Barton. I think I can speak to that. 3 MEMBER BEACH: Hi, Bob. I do remember one of the 4 MR. BARTON: main issues remaining or the last real issue that 5 6 cropped up was the issue of these visitor cards that hadn't been indexed completely by DOE and so they 7 are undertaking that effort. And at the last 8 9 meeting, the Work Group requested that SC&A go in and come up with sort of a proposal of methods that 10 11 we could use for sort of a verification and 12 validation study, when that coding and indexing 13 effort, ideally, was completed. 14 And we have come up with data. It's not It is in the final round of 15 in your hands yet. 16 internal review on our side. I believe that might 17 one might have to go to DOE just because it is a 18 proposal and also a brief sort of proof of principle 19 to show that we think that the method could actually work to do that sort of V and V activity on the 20 coding effort, which I think will go a long way 21

1	towards answering a lot of the questions that the
2	Work Group had, especially regarding
3	implementation and things like that, such as
4	slightly illegible records, or misspelling of
5	names, or nicknames, or something that might appear
6	on the visitor cards.
7	So, we have come up with a method and
8	that should be it is a pretty brief memo but it
9	should be in your hands shortly.
10	MEMBER MELIUS: Thanks, Bob.
11	Tim, any change in scheduling or update
12	on the scheduling issue on that?
13	DR. TAULBEE: From DOE?
14	MEMBER MELIUS: Yes, the data
15	processing.
16	DR. TAULBEE: I have not heard anything
17	from them.
18	MEMBER MELIUS: Okay. I guess we
19	didn't Greg wasn't impressed with our subtle
20	pressure.
21	DR. TAULBEE: Okay. I mean, I can

1	contact Greg and we can get an update on that.
2	MEMBER MELIUS: Yes, if you could.
3	I'm more concerned that I'm not sure we can push
4	it up but at least we can I would hate to find
5	out that it is going to take another year or
6	something because of a change in resources, or
7	priorities, or whatever.
8	DR. TAULBEE: Okay, I can certainly do
9	that and notify the Work Group via email.
10	MEMBER MELIUS: Oh, okay. Thanks. I
11	appreciate that.
12	MR. STIVER: Tim, this is John. I have
13	got a question for you, since we are kind of on the
14	subject.
15	At the August 2nd meeting, you
16	indicated that the SRDB, the references that Joe
17	and Bob had captured back in March should be up on
18	the SRDB by the end of the month. And Bob indicated
19	to me that he had found a couple. I'm just
20	wondering to the extent that that has already been
21	completed or not.

It has not been completed DR. TAULBEE: and let me apologize for saying that would be done by t.he end of the month. That. was my misunderstanding of how long this takes. been in contact with ORAU and to get all of these requests uploaded is going to take into November. What we have asked for is that ORAU move the -- well, currently, we have references that we are using in the ER addendum that we are writing. This the reserved portions. So, we have moved those references up to the front to get indexed so that we have got SRDB numbers so they can be referenced properly in the documentation. What I asked them to do was then take all of the SC&A requests from that data capture and move that to just behind our ER addendum. they will go there before the remainder of them. Just to let everybody know, these were over 1,300 documents that were released on seven flash drives in August. So, this is taking a little bit of time for them to get them indexed into

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

the SRDB because they do where there is large
documents and subdocuments, they do index each of
those titles. And so this is more of a complicated
process than what I had envisioned or thought of.
And I apologize for that.
I believe that we will probably have all
of SC&A's documents in there, I am hoping, by the
middle of next month, if not sooner. Once they
are, I will let you know, though.
MR. STIVER: Okay, so probably
mid-October, then we will say?
DR. TAULBEE: Yes.
MR. STIVER: Okay, thanks.
MR. BARTON: John, this is Bob Barton.
I have been able to kind of dive in a little bit
more since we spoke a day or two ago.
A lot of the references that we
collected in January and the subsequent data
captures are actually in the SRDB, so, at least with
regards sort of the evaluation of the Chemical
Processing Plant prior to 1963. Of course, the

1	issue we are really looking at there is whether
2	there was any potential for exposure to alpha.
3	Internally, that was not in the presence of fission
4	products. So, there is a lot of references that
5	are uploaded. So, I don't think we have really
6	seen it at this point, with going forward with that
7	analysis. There may be a few more there but a lot
8	of them that we did capture have been uploaded
9	recently.
10	CHAIRMAN SCHOFIELD: I've got a
11	question. Josie brought this up a few minutes ago.
12	What is happening on the Burial
13	Grounds? Is anybody actually looking at that at
14	this point or has that been pushed down?
15	MR. STIVER: Phil, a lot of those
16	records that Joe collected back in March come to
17	bear on the Burial Ground. As Tim indicated, they
18	probably won't be available until mid-October.
19	We also wanted to interview some more
20	Burial Grounds workers in the early period, if that
21	is, indeed, feasible, and find them. And that

would be in early October. 1 So, it is still very much on the table. 2 3 It is just that because of the bottlenecks and getting some of this information available through 4 INL and so forth is just taking longer than we would 5 6 like. CHAIRMAN SCHOFIELD: 7 Okay. I do have one other question while we are all on the phone. 8 9 My understanding is that they want to 10 use the ten percent of the MPC as a bounding value. 11 I have real heartburn with that, how this could be 12 used as a bounding value. I mean, basically, you 13 are saying that that doesn't exist at a higher level than that is my take on this. 14 It seems like at least 50 percent of what that value is because if 15 16 it is not setting off any alarms or anything, you don't really know what level it is in that 17 particular facility or room or location. 18 Phil, 19 MR. STIVER: Yes, that actually kind of another aspect of the general air 20 versus breathing zone issue that Tim is going to 21

address after the ER addendum in the 83.14, I guess. 1 2 I don't know if that is possible to do parallel with 3 the resources we have got. But that is kind of the flip side, if 4 you will, of that other point because you are 5 6 sampling, getting general air sampling, and you come up with values that are less than ten percent 7 of the MPC, is that really representative of what 8 9 the workers are encountering in their breathing 10 zones? And that was the subject of Hans' paper 11 that we talked about very extensively at the last 12 meeting. 13 CHAIRMAN SCHOFIELD: Yes. 14 And based upon from our DR. TAULBEE: earlier discussions here, that is my third major 15 16 deliverable back to the Board, the way I look at The ER addendum, the 83.14 for CPP, and then 17 this. the air sample issue for ANL-West. 18 19 CHAIRMAN SCHOFIELD: Job security for you, Tim. 20 21 Tim, are those types of MR. STIVER:

1	things going to have to be done in parallel or are
2	you going to have to do them sequentially?
3	DR. TAULBEE: I don't know yet. I just
4	don't know the answer to that yet.
5	MR. STIVER: Okay.
6	DR. TAULBEE: I made the ER addendum,
7	based upon our current resources, the first one to
8	get done. The 83.14, and the air sample, that is
9	something we are going to have to look and see
10	whether we can or cannot.
11	My initial guess says probably not but
12	I'm actually not the one who schedules resources.
13	MR. STIVER: Okay. This is John
14	again. There was one other thing that we were
15	tasked to do at the last meeting, which was for Ron
16	Buchanan to kind of address some of Tim's concerns
17	about the review of the fuel developer contact,
18	kind of direct measurements of fission and
19	activation products and actinide activity ratios.
20	And so while I was on the phone, I
21	believe we talked a little bit about the issues and

process of reorganizing the data into monthly cycles and also looking at plume dose potential, and also some statistics of the distributions that are involved. So, Ron, if you are on, maybe you could give a little bit of a background on that, if you can. this is DR. BUCHANAN: Okay, Ron Buchanan with SC&A. We discussed this on the second of August. Just to give you a little background, my initial look at this was to see if there was actual benchmarks that we could compare to the computer-generated values in OTIB-64 for fission activation products with the cesium and strontium ratios and the actinides in TBD-5. And so I went through and searched for data that gave simultaneous measurements of cesium and strontium and also some fission activation products and actinides, if possible, and compared those with what was recommended in those documents.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

And so, initially, I did this and came out with some data that I started working on the waste data. And I issued a report in June on that and had some data points in there that showed that about 35 to 45 percent of them actually fell in a reasonable range for strontium and cesium. the of that is strontium-137 importance and -- cesium-137 and strontium-90 are considered to be about in equal ratios in these documents that will be used for dose reconstruction. So, the first thing was to look at that and see if they were around unity and then also, if the data was available, to look at the ratio of and/or strontium-92, cesium-137 the fission products that were reasonably long in half-life. I did not look at the ones that were very short because you don't know when they generated. So, you don't know what the equilibrium is. So, I looked at the ones in OTIB-54 that had about a year half-life or greater and compared those with the strontium and the cesium values and

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

also the actinides given in the TBD-5 in tables 522 The ratios there, the main dose concern and 523. was for about three of those radionuclides actually produced a significant dose and so I looked for those. Now, one problem you run into is if they actinides, they don't usually do products and vice-versa. So, there are very few tied together. I did present this information at the August report and NIOSH brought up the question of well, you used mainly annual results for the waste data. What about the monthly results? some months there would be no say cobalt-60 listed. So, that would kind of skew the annual dose for those months that cobalt wasn't listed. So, I went back and looked at some and Tim was gracious enough to provide me with -- I did know that he was familiar with it -- listed all the monthly and the annual, dug through thousands of documents and thousands of pages to find some

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 matching pairs that were done at the same time. 2 And so I came up with about 350 matching 3 pairs and I looked at those on a monthly basis and compared those to the yearly basis. 4 And at this 5 point, Ι am at that stage, getting that 6 information, getting it into Excel spreadsheets and those ratios, plotting that data. 7 be working on the statistical aspects of that to 8 9 see if there is an issue or not with it. I had simply done a scatter plot and it fell within 10 11 plus or minus a factor two on the ratios. 12 Ι looking Right am now, at some 13 regression analysis and, obviously, probability distribution and I have that about ready to discuss 14 with mathematician 15 our there who does the statistics. 16 And then ANL -- that was all for INL. 17 Now, ANL has a lot less orders of magnitude less 18 I did find some additional data. 19 data. It looks like the ANL follows the INL. So, to some extent, 20 21 and since there is a lot less information for ANL,

1	I will use what I have. I probably won't find any
2	350 pairs but it looked like it is mirrored by INL.
3	So, we will concentrate on that but I will look at
4	what I have for ANL on a monthly and yearly basis.
5	So, at this point, we are ready to do
6	statistical analysis on INL data and probably will
7	have something out to the Work Group, hopefully,
8	for the November Board meeting. This is fairly
9	manually intensive. So, it takes a while to get
10	all this data together and analyzed.
11	But at this point, I don't see any big
12	differences between the monthly and yearly but I
13	will reserve that until we can do some more detailed
14	statistical analysis on it and then also look at
15	what data we have for ANL.
16	So, I will try to have something out by
17	the November meeting.
18	Any questions on that?
19	DR. TAULBEE: None from me.
20	MEMBER BEACH: None from me, either.
21	Thanks.

1	MEMBER ROESSLER: None from me. I
2	don't know if I'm off mute.
3	MEMBER BEACH: Yes, you are, Gen.
4	MEMBER ROESSLER: Okay.
5	CHAIRMAN SCHOFIELD: I don't have any
6	questions on that.
7	MEMBER ROESSLER: I have a new phone
8	and I'm getting used to it.
9	MEMBER BEACH: Should we talk about a
10	next meeting, maybe, Phil or are we not ready for
11	that yet?
12	CHAIRMAN SCHOFIELD: I think with the
13	interviews coming up and stuff, I don't think we
14	I would hate to kind of set one at this point.
15	Maybe look at the one in January or something after
16	the interviews are done.
17	DR. TAULBEE: I would like to propose,
18	Phil, that we do a technical call about the
19	interviews for coordination purposes.
20	CHAIRMAN SCHOFIELD: I don't have a
21	problem with that, if John doesn't have a problem

1	with that and Ted. I mean, obviously, that would
2	have to go through
3	MR. KATZ: Oh, yes. No, there is no
4	trouble with having a technical call. For me to
5	notice it, that's a piece of cake.
6	So, just keep me in the loop and I will
7	arrange it whenever you guys figure out when is a
8	sensible time to do that, your preparations.
9	That's fine.
10	I did have a question, just for clarity.
11	So, we have a November, very end of November Board
12	meeting and I'm just not sure but the sense I am
13	getting from what has been said so far then is it
14	seems like we may not have any INL consideration
15	at that November Board meeting because nothing will
16	be ready that is going to move anything. Is that
17	correct, with respect to, for example, the current
18	proposed definition for the chemical plant?
19	DR. TAULBEE: Ted, this is Tim. We
20	were hoping to have the ER addendum done.
21	MR. KATZ: And enough in advance of the

1	November meeting that it could actually be taken
2	up then at the November meeting?
3	DR. TAULBEE: I'm hoping.
4	MR. KATZ: Okay. I guess what I want
5	to understand is is that something that is going
6	to come to the Work Group first? Is it going to
7	be early enough for that or is that just going to
8	be presented at the Board meeting?
9	DR. TAULBEE: I guess, that I leave to
10	you all, Ted.
11	MR. KATZ: Well, I mean, it depends on
12	the timing
13	MEMBER MELIUS: Ted, what I have down
14	is that Tim was estimating early November for that.
15	MR. KATZ: Oh, okay. So, do we want
16	the Work Group to hear that first or do we want to
17	just have that at the Board meeting?
18	CHAIRMAN SCHOFIELD: I think it would
19	be good for the Work Group to look at it and see
20	if we feel that it is far enough along that we can
21	make a recommendation. I would just hate to get

1	blindsided with it just a few days later,
2	particularly if we don't feel that we can go with
3	the recommendation, at this point.
4	MR. KATZ: Right. Well, if it is an
5	opportunity for that, then we might as well book
6	a Work Group meeting and then I'll send it outwe
7	don't have to do on the phone here, unless you want
8	to but for a few weeks out from the Board meeting,
9	so that we are able to have that Work Group meeting,
10	if the timing works out. Right?
11	CHAIRMAN SCHOFIELD: Yes.
12	MR. KATZ: Yes, if you guys have your
13	calendars and you want to do it now we can do it
14	or I can send something out.
15	MEMBER BEACH: I'm good.
16	MR. KATZ: Okay. I mean, I'm fine. I
17	have my calendar right here. We can book it now,
18	if you want. And of course, you know, depending
19	on when the timing of when it actually gets done,
20	the work gets done, it may affect things. But it
21	seems like we would want it no later than I mean,

1	Thanksgiving is the week before the Board meeting.
2	And I would think we would want it, ideally, no
3	later than the week of November 7th.
4	DR. TAULBEE: The week of November 7th
5	is when we are doing the INL interviews.
6	MR. KATZ: Oh, okay. So that week
7	doesn't work. What about well, the report isn't
8	your work, Tim, is it? I mean, at the end, you are
9	getting approval from
10	DR. TAULBEE: Yes, reviews and so
11	forth. I'm just looking I just pulled up the
12	latest project plan dates and this is actually
13	putting it at the end of November.
14	MR. KATZ: Oh, okay. Alright. Well,
15	the end of November is the Board meeting.
16	DR. TAULBEE: Yes. So, I don't think
17	this is actually going to be available for the Board
18	to look at, certainly not 30 days before.
19	MR. KATZ: Well no, not 30 days but then
20	it sounds like not really at all is what you are
21	saying, I think.

1	DR. TAULBEE: Yes.
2	MR. KATZ: So, then it sounds like it
3	is a presentation to the Board, Tim, or not even
4	ready for that?
5	DR. TAULBEE: It may not even be ready
6	for that. Let me get back to you on that. I
7	apologize.
8	MEMBER MELIUS: We can put it
9	tentatively on the agenda for November.
10	MR. KATZ: Yes, we will put it
11	tentatively on the agenda. But Tim, as soon as you
12	can figure out if it is going to make it or not,
13	then please let me know.
14	DR. TAULBEE: Okay.
15	MR. KATZ: Alright. Alright, then we
16	don't need to book another Work Group meeting in
17	advance of the Board meeting.
18	Okay, good. Alright, does that take
19	care of everything, Phil? Anything else for the
20	good of the order?
21	MEMBER BEACH: This is Josie. Who is

1	going to send around options for the tech call? Is
2	that going to be SC&A or
3	MR. KATZ: As soon as SC&A and NIOSH
4	figure out when the right timing is for that tech
5	call, one of them will send me a note and I will
6	send it around to the Work Group.
7	MEMBER BEACH: Okay. And I think,
8	John, you have Joe's schedule. So you can
9	MR. STIVER: Yes. Yes, we will work
10	together on that.
11	MEMBER BEACH: Okay, perfect.
12	MR. KATZ: Sounds good.
13	CHAIRMAN SCHOFIELD: Okay, sounds
14	good.
15	MEMBER BEACH: Thank you.
16	CHAIRMAN SCHOFIELD: Thank you.
17	Adjourn
18	MR. KATZ: We're adjourned. Thank
19	you.
20	(Whereupon, the above-entitled matter
21	went off the record at 11:43 a.m.)

This transcript of the Advisory Board on Radiation and Worker Health, Idaho National Laboratory/Argonne National Laboratory-West (INL/ANL) Work Group, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the INL Work Group for accuracy at this time. The reader should be cautioned that this transcript is for information only and is subject to change.

1

2

3

4

5