

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi ET Audio File
Day 17

Docket Number: n/a

Location: n/a

Date: March 27, 2011

Work Order No.: NRC-1100

Pages 1-178

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

AP/17

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

+ + + + +

JAPAN'S FUKUSHIMA DAI-ICHI ET AUDIO FILE

+ + + + +

MARCH 27, 2011

+ + + + +

NEAL R. GROSS
COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (CONFERENCE CALL INITIATED.)

2 minutes

2 MALE PARTICIPANT: While we're waiting if
3 I could interject two items, we'll work one with the
4 RST here in the next shift.

5 (b)(5)

6
7 talked about. The (inaudible) of information about
8 fresh water capacity limited to the amount of water
9 required to fill drywells to the required levels, et
10 cetera.

11 So I need to work with your team on a
12 little, think about the bar, how much water capacity
13 (inaudible), and how much (inaudible) we need to push.

14 MS. EWELL: Okay, but in order to fill the
15 -- it keeps flooding. It can't keep flooding because
16 then you're going to lose all your equipment. So if
17 there's already saltwater, they're going to have to
18 remove that saltwater before fresh water can replace
19 it.

20 In the drywell if there's not, you know, a
21 whole lot (inaudible) with fresh water. So how would
22 they propose to get, the saltwater's going to get out?

23 MALE PARTICIPANT: That's a good question.

24 And (inaudible) talk about it here (inaudible). We
25 know what the capacity is and what it did and what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (inaudible) drywell (inaudible).

2 The other concern is as you're pushing
3 that in there, you're going to start raising pressure
4 (inaudible). There's a mix there.

5 So let me copy this (inaudible) stuff and
6 I'll get it to you guys (inaudible). The other thing
7 is that table discussion that Marty mentioned,
8 (inaudible). That was the brain child of (inaudible).

9 MALE PARTICIPANT: Headquarters Operations
10 Officer, I've added the individual to the bridge.

11 (CONFERENCE CALL ENDED.)
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (CONFERENCE CALL INITIATED) 21 minutes

2 MS. EWELL: Oh, hi. This is Jennifer
3 Ewell. I'm the director of the ETs right now in the
4 Ops Center. And Marty Virgilio here's with me as
5 well.

6 We were wondering about the use of what,
7 I don't know if you've heard the name NARAC, is
8 producing as far as projected dose rates, if that, in
9 fact, (b)(5)

10 meeting that he's supposed to have.

11 FEMALE PARTICIPANT: I can find out. Dan
12 Dorman has been involved with some more discussions.
13 He's in the next room. Let me bring him in.

14 MS. EWELL: Okay, thanks.

15 MR. DORMAN: Hey Marty, Dan Dorman.

16 MS. EWELL: Not Marty, it's Jennifer.

17 MR. DORMAN: Hey, Jennifer.

18 MS. EWELL: I got the whole crew here with
19 me, Marisa (phonetic), Bailey (phonetic), and Chris
20 Miller, and Randy Sullivan too, and me and Marty.

21 MR. DORMAN: Hey, everyone.

22 MS. EWELL: We have a question on how the,

23 (b)(5)

24
25 NARAC produced.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 And there's a question whether or not he's

2 (b)(5)

3
4 that?

5 MR. DORMAN: I know he has a meeting at

6 (b)(5)

7
8 meeting. In fact, I have a meeting with him in a
9 little over an hour to prepare for that.

10 What's the concern?

11 MS. EWELL: Well -- yes.

12 MALE PARTICIPANT: One of the dose
13 projections that we did, Dan, it's likely to be off by
14 a certain amount. We're not sure how far off it is
15 right now because of some errors in the data.

16 MR. DORMAN: Okay, off in a conservative
17 or a non-conservative direction?

18 MS. EWELL: A non-conservative direction.

19 MR. DORMAN: So it's understating the dose
20 projection?

21 MS. EWELL: Yes.

22 MR. DORMAN: Okay.

23 MS. EWELL: And we're trying to rectify
24 the problem now. If we knew as far as, you know, his

25 (b)(5)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 We can come up with like a factor and say
2 well, consider the dose rates to be X percent
3 underrated, or we could, if we had more time we could
4 get another calculation.

5 MR. DORMAN: Okay, now the one that you're
6 talking about, is this the one of the plausible,
7 realistic case?

8 MALE PARTICIPANT: Yes. That's the title
9 on it, where you have 70 percent steel melt (phonetic)
10 in Unit 1, 33 percent in Unit 2 and 33 percent in Unit
11 3.

12 MR. DORMAN: Okay.

13 MALE PARTICIPANT: And you have, I guess
14 the worst case is that you've lost containment
15 altogether and all of it goes out of Unit 3 over the
16 course of one day.

17 MR. DORMAN: Okay. And this is a
18 projection, this source term is saying what we think
19 has happened or what we think could happen?

20 MALE PARTICIPANT: I think at the time
21 that this was developed back on Monday, the 21st, it
22 was a projection of the worst, you know, a realistic
23 worst case of what, you know, could happen.

24 MR. DORMAN: Okay.

25 MALE PARTICIPANT: I think that, you know,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 if you were to do it all over today, you would
2 probably have different assumptions of core melts.

3 MR. DORMAN: Yes.

4 MALE PARTICIPANT: Not all three units.

5 MS. EWELL: There's a certain delay that
6 we incur because of interaction with NARAC.

7 MR. DORMAN: Right. I understand that.

8 MS. EWELL: Yes, all right. Takes six
9 hours for the runs, they don't work on weekends and
10 they only work during normal working hours.

11 MR. DORMAN: Right.

12 MS. EWELL: But it was decided by, you
13 know, the federal family, that the NARAC was the tool
14 we were going to use.

15 MR. DORMAN: Right.

16 MALE PARTICIPANT: This table I have says
17 that you exceed the one ram petty (phonetic) at 12
18 kilometers away from the site.

19 (b)(5)

20
21 MR. DORMAN: Okay.

22 MALE PARTICIPANT: I think what we just
23 wanted to make sure that you're all aware of is there
24 a calculational error here.

25 MR. DORMAN: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: So we've underestimated
2 the dose, and we're just trying to make sure we get it
3 straight. It's easy to have any --

4 MR. DORMAN: But the bottom line then is
5 this is our worst case projection, realistic worst
6 case projection.

7 MALE PARTICIPANT: On the 21st of March.

8 MR. DORMAN: Okay. And that while we have
9 found an error in the inputs, we have not determined
10 the full impact of that error, but we expect that it
11 will increase the range of consequences.

12 But that it's not, it's the increase --
13 these results and that increase would not warrant any
14 actions at this time.

15 MALE PARTICIPANT: I know this is not
16 linear, but I mean what we're out to is 12 kilometers.
17 So I mean it's, double it. You're only out to 24
18 kilometers.

19 MR. DORMAN: Right. And it would take you
20 a lot more than doubling the source term to double the
21 range of the protective action.

22 MALE PARTICIPANT: It's not linear. I'm
23 just throwing that out there. But I mean you're out
24 to 12 kilometers, I mean, you know, we're not talking
25 about factors of ten, are we?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. DORMAN: You asking me that or are you
2 asking --

3 MS. EWELL: Yes, at this point we don't
4 know. Randy Sullivan's here. We're going to be
5 trying to get you that factor as quick as we can.

6 MR. DORMAN: Okay. Can you explain to me
7 what the error is that we found, just so I have that
8 in my hip pocket?

9 MALE PARTICIPANT: The Unit 3 source term
10 is low by a lot, and it's due to an operator error or
11 a computer glitch.

12 I'm not sure I know or care which, but we
13 did the wrong thing with RASCAL, and we ended up with
14 a source term that's well low from where it should be.
15 Now Unit 1 and 2, I guess the source term was
16 correct.

17 MALE PARTICIPANT: So and Unit 1 was 70
18 percent and Unit 2 was 33, so this would only be a
19 fraction of the total that we were modeling, right?

20 MS. EWELL: Yes, but just if you want more
21 information, from what Cindy Jones (phonetic) told me
22 was that there was an error on the input that was
23 essentially making the release delayed by 24 hours,
24 and that really wasn't what was supposed to be
25 modeled.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 And then because that logic in the code
2 was rarely used, there was a determination that in
3 that logic now only residuals of what would still be
4 there after a 24-hour release had been going on,
5 actually got released.

6 So it's like this input error that went
7 and got another error at a logic that we don't
8 normally use.

9 MR. DORMAN: Let me put that back to you
10 in my own words, Jennifer, and see if I got the
11 essence of what you were saying. If you did a 24-hour
12 release, you'd get a very big amount of material
13 coming out from Unit 3.

14 But because we inadvertently put in a
15 delay in the input, what the effect of that in running
16 the code is that it picked up the release after most
17 of it was gone.

18 MS. EWELL: Yes.

19 MR. DORMAN: And in effect, missed most of
20 the Unit 3 release in the plume?

21 MS. EWELL: Yes, that's exactly right.

22 MR. DORMAN: Okay.

23 MS. EWELL: That's my understanding, but
24 again, you know, we haven't done all the
25 troubleshooting on what occurred.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: That's a good
2 explanation.

3 MR. DORMAN: Okay. All right. Yes, I may

4 (b)(5)

5
6
7 that.

8 Do we have a sense at all of the relative
9 order of magnitude of the Unit 3 versus the Unit 1 and
10 2 contributions to this?

11 MS. EWELL: Well, I mean we know that Unit
12 1 was modeled at 70 percent melt and, you know --

13 MALE PARTICIPANT: Ten percent per day.

14 MS. EWELL: -- at ten percent per day, and
15 then Unit 3 was supposed to be 33 percent melt
16 released over I think a 24-hour period of time. So
17 it's hard to say without going back and doing some
18 more, because it's not apples to apples.

19 MR. DORMAN: Okay, but the 70 percent
20 released over 12 days, that seems like it except for
21 very shorter lived items, would contribute more than
22 even a 33 percent in a day. Am I reading that wrong?

23 MS. EWELL: I don't know. I can't do that
24 in my head yet. No, I'm thinking that they're about
25 the same.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MR. DORMAN: But I'm thinking that Unit 2,
2 a 33 percent released over two days, is going to have
3 a --

4 MS. EWELL: That would be more obviously
5 than the --

6 MR. DORMAN: I think it would be on the
7 order of magnitude of the Unit 3 over one day.

8 MS. EWELL: Yes, I agree.

9 MR. DORMAN: And then the Unit 1, 70
10 percent stretched over 12 days or whatever it is here
11 --

12 MS. EWELL: That one's well, you know,
13 because of the delay I think that's a lower
14 contributor.

15 MR. DORMAN: Right. Okay, so that if, you
16 know, if we even assume that Unit 3 doesn't even show
17 up in this thing that it would be on the order of a
18 doubling.

19 And I'll let you guys do all the detail
20 work obviously. I'm just trying to get a feel of the
21 order of magnitude that I'm in.

22 MS. EWELL: Yes, I mean I think it's
23 between 30 and 50 percent if I were to --

24 MR. DORMAN: Thirty to 50 percent increase
25 of what was actually showing up in here?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MS. EWELL: Yes.

2 MR. DORMAN: Okay.

3 MS. EWELL: But don't use those numbers
4 because --

5 MR. DORMAN: No, I won't. I'm just trying
6 to get the feel of, you know, I don't want to give
7 them the impression that the charts are hardly going
8 to -- you know, he's going to focus on the charts.

9 And I don't want to give him the
10 impression that the charts are hardly going to change
11 if they're going to change a lot, and conversely, I
12 don't want to give him the impression that the plume's
13 going to take over the plot if it's not going to
14 change much.

15 MS. EWELL: Again --

16 MR. DORMAN: But I think it's somewhere in
17 between.

18 MS. EWELL: Yes.

19 MALE PARTICIPANT: Dan, I'm sorry to have
20 to bring this up while we're trying to talk to you,
21 but I believe we told NARAC to use a real weather case
22 for this. I'll go check that.

23 If we're really trying to come up with
24 worst case then, you know, we should choose a weather
25 case that's more detrimental.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. DORMAN: Well, what I think we're
2 looking for is the realistic worst case. We're not
3 looking to pile on conservatisms on every aspect of
4 it.

5 You know, particularly with a one-day
6 release you might pick a weather that's more
7 detrimental, but for the 12-day release I think it's
8 reasonable to have the, from our experience of the
9 past slightly over two weeks, I think it's reasonable
10 to have most of it going out to sea.

11 MR. VIRGILIO: Well, I mean I think what
12 we need to do is just correct the errors and rerun
13 this one.

14 MR. DORMAN: Yes, I agree with that,
15 Marty.

16 MR. VIRGILIO: Three two (phonetic) on
17 3/21. And then we need to step back and say, what's
18 the better case to run today? But we need to fix this
19 one first.

20 MR. DORMAN: Yes, agreed.

21 MALE PARTICIPANT: I guess what we're

22 (b)(5)

23
24 path.

25 If we an rerun it, you know, perhaps

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

1 that's preferable, but if we don't have the time to
2 rerun it then tell us.

3 MR. DORMAN: No, I don't think he

4 (b)(5)

5
6 hour now.

7 And, you know, by that time, you know, if
8 NARAC's not working the weekend and it takes them six
9 hours if they are there, it's kind of a moot point at
10 this point.

11 So I'm just going to tell them, you know,
12 we've got an error in this. We're working to fix it,
13 but we're not going to have it for you today.

14 MS. EWELL: Now we can run this source
15 term. We can run RASCAL very quickly and we can tell
16 you what the fraction of the source term is increased,
17 but that's not -- and then if you, you know, assume
18 linearity on the dose, but again that's not going to
19 be linear on the dose either.

20 MR. DORMAN: Yes. If you can email me a
21 sense of the fraction of the source term, you know,
22 that'd be handy, but I don't want to overpromise
23 anything upstairs either.

24 FEMALE PARTICIPANT: You're looking at
25 being able to come up with a number, people we're

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 using 10 to the 14th, so you're looking at coming up
2 with a revision (phonetic) to the actual source term
3 number?

4 MS. EWELL: Yes, I'm not sure what you
5 mean by the 10 to the 14th.

6 FEMALE PARTICIPANT: I think that's what
7 (b)(5) was using.

8 MR. DORMAN: There was a, we got handed a
9 single point piece of data that (inaudible) the
10 ministry here that does the offsite monitoring, was
11 running speedy (phonetic) using at a release rate of
12 10 to the 14th (inaudible) per hour.

13 And we had had a conversation with Randy
14 yesterday to say, how does that compare with what
15 we've got? And I think the answer we got back from
16 Randy was that the source term on this thing
17 translated to approximately nine times ten to the 15th
18 (inaudible) per hour.

19 So I think more to the point I think of
20 what I was hearing you say, Jennifer, was if you guys
21 do a quick RASCAL run you might be able to tell me
22 that the change to correct the issue on Unit 3, you
23 can come back and tell me it's a 20, 30, 50, whatever
24 percent increase in the source term relative to what
25 the input was for the printouts that we're looking at.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Is that right?

2 MS. EWELL: Yes.

3 MR. DORMAN: Okay. Yes, if you get that
4 data point, if you could just email it to me that
5 would be helpful.

6 MALE PARTICIPANT: Okay, but ultimately,
7 Dan, we just need to do that NARAC run.

8 MR. DORMAN: Yes.

9 MALE PARTICIPANT: By the way, I'm
10 thinking that the NARAC people work for or are
11 connected to the DOE people that are with you there.

12 So I'm hoping that if we need to wake them
13 up we can get to them through maybe your contact with
14 DOE. Will get back to you on that.

15 MR. DORMAN: Okay. I'm not sure who.

16 FEMALE PARTICIPANT: Do you want us to do
17 that here?

18 MALE PARTICIPANT: Nothing yet. Give us a
19 little time.

20 MR. DORMAN: Okay.

21 FEMALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: One other thing while
23 I've got you, Dan.

24 MR. DORMAN: Yes.

25 MALE PARTICIPANT: Shielding, we hear

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that there's an interest in shielding now on the part
2 of the TEPCO folks.

3 MR. DORMAN: Yes, well, TEPCO, the
4 Japanese government, they're, not last night but the
5 night before last, the Cabinet stood up three working
6 groups.

7 And the highest priority one is the
8 shielding one, and they emphasized that again last
9 night. They acknowledge the priority on cooling the
10 reactors down, but they said these things are still
11 going to bleed.

12 And when they say shielding, there's a
13 couple of things that go through my mind. One is they
14 need, they're looking for, you know, fixed in-place
15 shielding that'll reduce those rates around the
16 roadways around the plant.

17 But even more so I think they're looking
18 to build some kind of confinement structures, is the
19 way I would characterize it, around these four units,
20 so that while they're still having very minor releases
21 from these buildings that they've got it wrapped in a
22 package that they can put ventilation on and stop
23 sending things downstream.

24 MS. EWELL: Okay. So we were thinking
25 lead bricks. That's not what you want obviously.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 MR. DORMAN: Well, you know, I think the
2 lead and tungsten and all these kinds of
3 conversations, we're having these conversations too,
4 but I think they're even looking more.

5 You know, we had sent some emails back and
6 forth earlier in the week where we were using words
7 like entombment and sarcophagus. But I think it's,
8 and that was us losing something in the translation as
9 well.

10 I think they're really looking more at
11 what would ultimately be a temporary lighter weight
12 structure that would encapsulate if you will. So that
13 I think they're starting to get the feel that things
14 may have, even if you flood the containments and have
15 long term cooling that with potential damage states to
16 containments and potential damage states in pools,
17 that they're still going to want to bottle this thing
18 up somehow is what they're trying to figure out I
19 think.

20 Now having said that they had their
21 kickoff meeting yesterday and the guys just went off
22 to meeting number two. And our guys are wondering, so
23 how long do we do daily meetings on a 10-year project?

24 MALE PARTICIPANT: Right. So I was trying
25 to ferret whether there was a short term interest and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 need, but now I understand better that this is a
2 longer term project.

3 MR. DORMAN: Yes, it's a longer term
4 project but their, you know, at least last night their
5 Cabinet and Parliament level folks were setting it at
6 equal priority to cooling.

7 MALE PARTICIPANT: Okay, thanks.

8 MR. DORMAN: Okay.

9 MALE PARTICIPANT: Anything else for us?

10 MR. DORMAN: Nothing jumping out right
11 now. But Chuck and John got up to J-Village today but
12 we haven't, they should be back shortly but we haven't
13 seen them yet.

14 MALE PARTICIPANT: Okay.

15 MS. EWELL: All right, take care.

16 MR. DORMAN: Okay, you too. Bye.

17 MALE PARTICIPANT: Thanks, Dan.

18 (Conference call concluded)

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

29 minutes

MS. EWELL: I mean I think really the more the issue at hand is do we believe these results? Because okay, we ran RASCAL, you know the federal family said use RASCAL to feed into NARAC, but that was based on the fact that RASCAL was from what (inaudible).

So the first thing I would do is just figure whether or not that makes a lot of sense. Because to me, if that were the case, I mean there'd be no lift (phonetic) from, you'd just hold up and you just really reduce, and you really increase your containment structure integrity or reliability and then there's no risk of nuclear power at all.

And so that tells me if you reduce your (inaudible) down to one percent or three percent.

MALE PARTICIPANT: Well, this is not, this three percent it's three pieces, Unit 1, Unit 2 and Unit 3, although Unit 3 is less of a contributor.

MS. EWELL: Okay, but this what I'm saying, how much of, factually, of Unit 3, how much has it reduced by holding up the 24 hours?

MALE PARTICIPANT: Twenty percent.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

(202) 234-4433

1 MS. EWELL: But that's not what you said.

2 MALE PARTICIPANT: Most of it is noble
3 gases. So the total activity was 3.2 times ten to the
4 seventh. If you don't hold it up for a day it's 2.7
5 times ten to the seventh.

6 MS. EWELL: Okay, that's a completely
7 different message than I got when you first told me
8 that.

9 MALE PARTICIPANT: Well, it's all due to
10 the nobles, exposure.

11 MS. EWELL: Well, but nobles don't do
12 anything. Nobles don't --

13 MALE PARTICIPANT: Well, they give you the
14 (inaudible). But if you want to consider the thyroid
15 (inaudible) then yes, the iodine from the Unit 3 would
16 be significantly reduced.

17 MS. EWELL: Yes, but I guess I'm still not
18 -- are you guys clear as to how much the hold up for
19 the 24 hours reduced the source term from Unit 3? I
20 thought you said up to 97 --

21 MALE PARTICIPANT: I thought it was just
22 down to four percent, but that's not exactly --

23 MALE PARTICIPANT: If you consider total
24 activity, right.

25 MS. EWELL: No, we're just talking about

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Unit 3. How much has the wait out --

2 MALE PARTICIPANT: I'm also talking just
3 about Unit 3. See, the noble gas source term is
4 (inaudible) in Unit 3. But maybe we could answer your
5 question better if we were to run that case without
6 the 23-hour hold up and with (inaudible).

7 MALE PARTICIPANT: Okay. Yes, that's what
8 I'm just talking about. This is a select radionuclide

9 (b)(5)
10

11 computers for as long.

12 (b)(5)
13
14
15
16

17 MALE PARTICIPANT: Well, if you add it up
18 that's the way it stacks up. Source term enroute
19 (inaudible) Unit 3, 3.2 (inaudible) versus 2.7 you get
20 seven.

21 It's about 20 percent less because the
22 radionuclides that have been reduced significantly
23 didn't contribute that much to the source term before
24 it reduced.

25 They're in the order of ten to the fourth,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 ten to the third (inaudible) rather than ten to the
2 seventh, ten to the fifth (phonetic).

3 Does it make it difference that the way
4 this was bottled was nothing happened for 23 hours if
5 I understood what you said, and then all the release
6 occurred in the last hour?

7 MALE PARTICIPANT: No.

8 MALE PARTICIPANT: Is that what I heard?

9 MALE PARTICIPANT: No. They calculated,
10 the release was set up to release 100 percent per day,
11 so even though it was held up for a day then they
12 released the rest of it over 24 hours plus.

13 I did the calculation for two days. Most
14 of it gets out in one day and a little bit dribbles
15 out after that so it's not --

16 MALE PARTICIPANT: So there's additional
17 played out as you're releasing, so at hour 23 I
18 believe we start a release of 100 percent a day.

19 So in the next day, you know, release 100
20 percent and then release 100 percent of the volume of
21 containment again on the following day, so it's
22 exponential. And most of it would come out in this,
23 you know, 23 hours, in the next 24 hours most of it
24 would come out.

25 But the same physical processes, if it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 models it is it going on during that release period
2 here?

3 MALE PARTICIPANT: So if so much of it is
4 dominated by the noble gases, why does it look that
5 much different at 24 hours of played out?

6 MALE PARTICIPANT: Well, because the
7 nobles are not attracted by the played out so they all
8 get out. But if you have a significant reduction
9 factor of 100 or even more for the other radionuclides
10 then (inaudible) get out.

11 MALE PARTICIPANT: But my question was
12 centered around the fact that Unit 3 (inaudible) its
13 numbers were so much different, and you're saying that
14 was -- I thought I heard you say that was because of
15 played out but you're also saying that it didn't
16 really, the played out really wasn't that significant
17 on the correction of it.

18 MALE PARTICIPANT: When you talk about
19 total activities.

20 (b)(5)

21

22

23

24

25

MALE PARTICIPANT: Well, Unit 2 is
(inaudible), and you can see from this table that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Randy's holding here, Unit 2 had the biggest kick in
2 terms of the release. So the percentages of
3 radionuclides released were in the 60,70 percent just
4 for Unit 2 alone.

5 MALE PARTICIPANT: Unit 1 contributes on
6 the average of like 17 percent (inaudible)
7 radionuclide. And if we release it immediately as
8 soon as the core's uncovered, then Unit 3 would
9 contribute in the order of 20 percent on average for
10 its radionuclide.

11 If you hold it up for a day that 20
12 percent is reduced to one percent for everything
13 except for these.

14 MALE PARTICIPANT: That's the way it's
15 modeled. I understand that. I'm not sure I agree
16 with it but I understand that's the way it's modeled.

17 So a little bit suspicious at the way it's intended
18 to be modeled. These guys should have more reactors.

19 (Inaudible) and we have a new guy
20 (inaudible), but Holdren and Charlie and Nibioki
21 (phonetic) agreed to the, I guess the initial
22 assumptions.

23 Were they agreeing to this 23-hour hold up
24 or were they agreeing to all of it was going to be
25 released, maybe a linear fashion over 24 hours?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

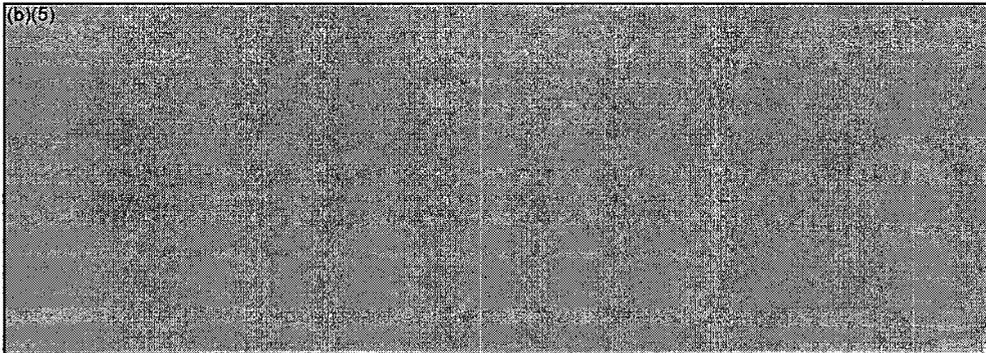
(202) 234-4433

www.nealgross.com

1 MALE PARTICIPANT: I think what they
2 wanted to do was to model it as it actually happened.

3 That what we found is that in the chronology it's
4 documented that the core was uncovered the 13th at
5 noon. And then was seeing the hydrogen explosion, was
6 11 o'clock, 23 hours later.

7 So I think whoever modeled this, at first



9
10
11
12
13 RASCAL is working at (inaudible). But overall, the
14 NARAC (inaudible) wouldn't change that much, you know,
15 if we moved it back and released it right there at the
16 time the core was uncovered you'd get 20 percent more
17 out.

18 So you're not going to see much of an
19 impact on the (inaudible). They go out a little bit
20 farther, maybe five percent farther than they do now.

21 So I think you've got a good product for
22 making a relatively good decision (inaudible). I
23 don't have the sense (inaudible). So we need to
24 connect the new with the focus now (inaudible)
25 wherever whether it was OSTP (phonetic) or --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Yes, but now we need to
2 get back to the site team to make sure a third --

3 MS. EWELL: I think we can talk to source
4 term experts, but that played out (inaudible).

5 MALE PARTICIPANT: So who did you say --

6 MALE PARTICIPANT: Well, wake up Chaparow
7 (phonetic) and Dinkler (phonetic) and --

8 MALE PARTICIPANT: Chaparow, Dinkler, yes.

9 MS. EWELL: Yes, and maybe Dana Powers.

10 MALE PARTICIPANT: But I'm happy to do
11 that, but since this model is not going to show -- I

12 (b)(5)

13
14
15 MS. EWELL: No, not if the played out is
16 absolutely wrong and we're releasing a heck of a lot
17 more than what is modeled.

18 (Crosstalk)

19 MALE PARTICIPANT: Not a heck of a lot
20 because we told you it would be, if it's not one
21 percent it'd be 20 percent of the total of source term
22 and it's not going to change tags from 15 kilometers
23 to 150 miles. So I mean --

24 MALE PARTICIPANT: It might change it from
25 13 miles to 15 miles.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Well, even if it goes
2 to 20 miles, (b)(5)

3 (b)(5) If
4 it's trying to have an accurate --

5 MS. EWELL: I guess I don't have a lot of
6 confidence in RASCAL at all after I hear what it's
7 calculating. So that's my concern.

8 MALE PARTICIPANT: Yes, I'll go for that.
9 But I don't mind, I'm happy to pursue what you're
10 suggesting. (Inaudible), I'm just saying do we need
11 to do that before we get back to the site team with
12 what we think the situation is?

13 MS. EWELL: Personally, I would prefer
14 that you talk to (inaudible) people.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: We can work it out with
17 OSTP.

18 MALE PARTICIPANT: Well, we've put the
19 site team on notice. I don't want to cycle them, so I
20 think that, I agree. I think we need to talk to them.

21 (b)(5)

22
23 Make sure they understand that we didn't
24 make a mistake, it's just the way that this model
25 operates, and get that put in the box and then we can

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 go back to the site team and tell them.

2 MALE PARTICIPANT: Sure. And by the way,
3 another option would be to release the units and do
4 not put the delay on the Unit 3 (inaudible), develop
5 that source term, revise it and send it to NARAC to
6 run again.

7 MALE PARTICIPANT: Another option.

8 MALE PARTICIPANT: That takes this up to
9 the (inaudible). I mean I still --

10 MALE PARTICIPANT: Actually you would
11 release it linearly over 24 hours or how would you
12 approach it?

13 MALE PARTICIPANT: If there's a concern
14 that this stuff is not plating (phonetic) out, we can
15 just back up at a reduced time, 23 hours, then it'll
16 all be released just like the other two units.

17 MALE PARTICIPANT: It wouldn't be linear.
18 It would be the typical evacuation of a volume over
19 24 hours, which I believe is an exponential, right?

20 MALE PARTICIPANT: Yes, yes.

21 MALE PARTICIPANT: And we would eliminate
22 this played out question all together and just give
23 them a source term with it being released at the time
24 of core melt rather than at the time of the hydrogen
25 explosion.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Well, the (inaudible)
2 release at the time of core melt.

3 MALE PARTICIPANT: Yes. We could finish
4 whenever, 24, 48 --

5 MALE PARTICIPANT: If it's 100 percent per
6 day. It'll get out mostly in the next 24 hours.

7 MALE PARTICIPANT: Yes, and then something
8 the day after that. I mean that was eliminated. Now
9 I still don't like the RASCAL (inaudible).

10 I still think MELCOR is a better way to
11 generate (inaudible), and experts sitting at a table
12 outside, you know, is a better way to do it. But that
13 might answer this mail (phonetic).

14 MALE PARTICIPANT: We recognize that the
15 technology's out of date based on NUREG 1465. It's
16 more conservative than helpful.

17 MALE PARTICIPANT: I still believe the
18 next step is we get the experts involved. Make sure
19 we understand the anomalous behavior of the code, or
20 how the code behaves relative to how it would behave
21 as best we understand it.

22 (b)(5) then we'll go back
23 to the site after we've worked it out (b)(5)
24 you all agree we need to do more runs by NARAC, that
25 better be okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: I'm sorry, could you
2 say that again. I don't want to --

3 MALE PARTICIPANT: I would not do another
4 run having it exponentially out over the 24 hours

5 (b)(5)

6 (b)(5)

7 so I think they came to an agreement as to how this
8 was going to be done. And I think we just needed, and
9 then they've raised the flag now. They've said that,
10 you know, this clears an error.

11 So we need to go back to them and say
12 well, this isn't an error. This is the way the code
13 is actually bottling this event. Do you want to do a
14 different run?

15 So we'd need, I would think before we do
16 that run we would need DOE and OSTP to say yes,
17 (inaudible), yes.

18 MALE PARTICIPANT: In which case we
19 develop a different source term without this 23-hour
20 hold up and --

21 MALE PARTICIPANT: If they agree to that,
22 whatever they want, yes.

23 MALE PARTICIPANT: -- and tap it off.

24 MALE PARTICIPANT: But before you do that
25 we need to get with our --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (Crosstalk)

2 MALE PARTICIPANT: And if they say well, I
3 think that played out term is too big, which wouldn't
4 surprise any of us, I would need to see that and the
5 (b)(5) (inaudible).

6 MALE PARTICIPANT: If that played out term
7 is too big, can you actually adjust for RASCAL?

8 MALE PARTICIPANT: Our contractor could
9 but he's not available at this time.

10 MS. EWELL: We don't have the source code.

11 MALE PARTICIPANT: Yes, (b)(5)
12 (phonetic) is our contractor.

13 MS. EWELL: Yes, but do we have it here,
14 the source code ourselves so that we could --

15 MALE PARTICIPANT: No, and even if we did
16 have it I couldn't do it myself (inaudible), time to
17 figure it out.

18 MALE PARTICIPANT: Yes, and I guess what I
19 hear you saying is I'm not so sure that needs to be
20 our top priority either.

21 MALE PARTICIPANT: Yes, I mean yes, we can
22 investigate the code and find out --

23 MALE PARTICIPANT: Yes, we can rerun the
24 model if we need to a different way to get the same
25 results as if we would have, I mean we need to look at

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 it in the long run, I agree.

2 But I think that if you could rerun the
3 model you don't need to fix it right now. And we may
4 not need to rerun it based on the fact that, I mean
5 we'll discuss that with OSTP.

6 MALE PARTICIPANT: Okay. All right. Now
7 we've got a straight path forward.

8 MALE PARTICIPANT: Yes, I have a straight
9 path forward except do you think I'm going to be able
10 to, (b)(5) have their
11 conversation, right? And (inaudible).

12 (Crosstalk)

13 MALE PARTICIPANT: We're in agreement
14 we'll do that.

15 MALE PARTICIPANT: Yes, and I'm not sure I
16 (b)(5) but I
17 would certainly do that tomorrow morning.

18 MALE PARTICIPANT: Yes, make it a priority
19 for the morning.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: I'm not even sure we
22 need to wake up our folks tonight.

23 MALE PARTICIPANT: Yes, good question.

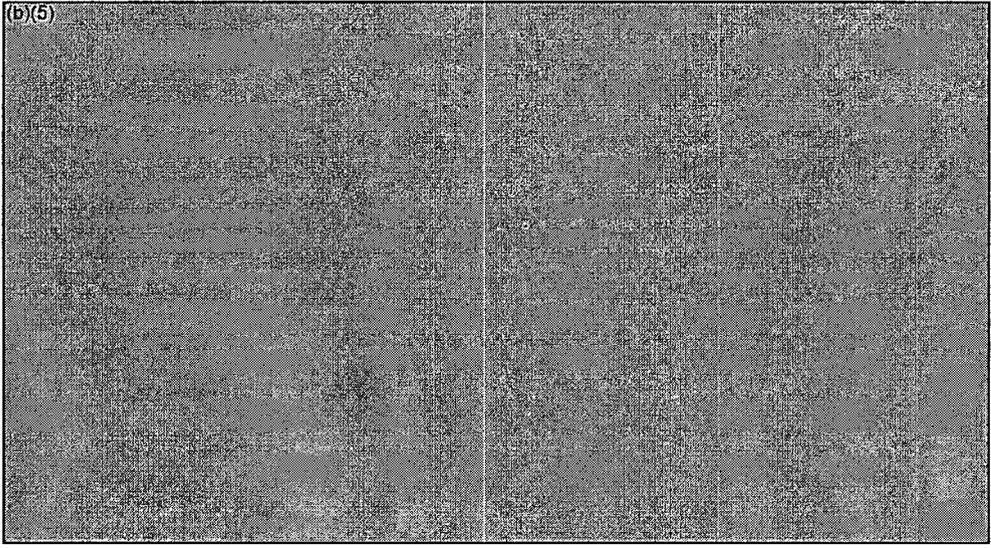
24 MALE PARTICIPANT: I agree with that. The
25 only reason why we wanted to do that was because we

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 wanted to stave off this, you know, lots more
2 questions about what is this, (inaudible).

3 (b)(5)



4
5
6
7
8
9
10
11 MALE PARTICIPANT: Historical record would
12 support your choices of inputs to the model even
13 though it's not what we've been doing in the last
14 couple of weeks. It's always structured.

15 MALE PARTICIPANT: You mean the choices of
16 the hold up and that, is that what --

17 MALE PARTICIPANT: Well, the hold up is an
18 automatic process and that (inaudible) delay to
19 uncover the core and then delay the release for 24
20 hours, that's an unusual choice. We've always
21 released it --

22 MS. EWELL: Just after you uncover the
23 core it takes awhile (inaudible) release primarily as
24 a (inaudible), so it takes awhile for the core to, you
25 know, heat up and then melt and then, you know,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 (inaudible) at that point of releasing all the
2 (inaudible).

3 Iodine and cesium which are really
4 volatile, they come out first. The other ones are
5 going to take awhile. The noble gases, iodine and
6 cesium they're easier to get out, but there are other
7 ones that have to be released at a higher temperature.

8 MALE PARTICIPANT: (Inaudible).

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: So there was no really
11 inaccurate team. You looked at that and so we're,
12 because that's the only thing.

13 I mean I think we want to be able to tell
14 somebody when they ask the question tomorrow morning
15 early that no, there wasn't any. It's just the way
16 the model was. Now we can rerun the model if we need
17 to.

18 MALE PARTICIPANT: I think we're
19 (inaudible) surprising results.

20 MALE PARTICIPANT: Where we're at is that
21 the operators did what we believed we were told at the
22 model.

23 We're perhaps surprised at the amount of
24 played out that RASCAL held them up there, so that
25 could be a problem there. But in fact, there's still

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 quite a bit of nuclide coming out.

2 MS. EWELL: Do we have (inaudible)
3 documents of this?

4 MALE PARTICIPANT: No.

5 MS. EWELL: We don't have to go with it
6 here?

7 MALE PARTICIPANT: Go with the documents?
8 I'm not --

9 MS. EWELL: Or like the (inaudible)? I
10 would hope we would (inaudible).

11 MALE PARTICIPANT: We have a source term
12 ready to build into RASCAL but we have to modify
13 unifaces to build it in. I have some documentation
14 but I don't have any (inaudible).

15 MS. EWELL: Okay, but the source -- I mean
16 the source term out of MELCOR is (inaudible) played
17 out. So why do we have to put it into RASCAL?

18 MALE PARTICIPANT: Well, it was built for
19 RASCAL, source term in RASCAL, there are seven choices
20 written out.

21 MS. EWELL: Yes, but you just said we took
22 the source term from (inaudible) and we were going to
23 --

24 MALE PARTICIPANT: No. I said (inaudible)
25 models a piece of software for us that we can build on

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 to RASCAL that little model (inaudible). But the
2 pieces are not built together yet.

3 MS. EWELL: Yes, but I guess what comes
4 out of RASCAL that you're giving to NARAC is just a
5 source term.

6 MALE PARTICIPANT: That's right. We're
7 modeling the meteorology in the RASCAL output, but
8 NARAC uses their own meteorology.

9 MS. EWELL: So we're just giving them a
10 source term.

11 MALE PARTICIPANT: A source term, right.

12 MS. EWELL: All right. So my question is
13 why don't we just give them the (inaudible)?

14 MALE PARTICIPANT: Well, yes. I think
15 that we've done that. In the past few days there was
16 a, I wasn't (inaudible) --

17 MS. EWELL: And all I'm doing is, can we
18 look at that source term?

19 MALE PARTICIPANT: So the results that we
20 got back from NARAC for the (inaudible).

21 MS. EWELL: No, no.

22 MALE PARTICIPANT: Doing the same
23 assumptions that we're doing in RASCAL we could do in
24 (inaudible).

25 MALE PARTICIPANT: No, we won't be doing

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the same assumptions. However, I believe that --

2 MS. EWELL: I'm just trying to get a copy
3 of the (inaudible) source term so that when I look at
4 the numbers and how the cesium and iodine is coming
5 out, and then that, can we look at that and based on
6 what's --

7 (Crosstalk)

8 MS. EWELL: And saying, you know, this is
9 (inaudible) low.

10 MALE PARTICIPANT: To the best of my
11 knowledge we have a MELCOR set that's essentially the
12 (inaudible) long term (inaudible) blockout at this
13 sort of term, although we also included spent fuel
14 pooling. But I wonder if we have the elements of that
15 somewhere.

16 MS. EWELL: Don't worry about it. I mean
17 --

18 MALE PARTICIPANT: It's back from 319.

19 MS. EWELL: I would just talk to the
20 source term on that code, how we get --

21 MALE PARTICIPANT: But no, I don't have
22 the (inaudible) NUREG computer here in the --

23 MS. EWELL: I think moving on to --

24 MALE PARTICIPANT: That'll work.

25 MS. EWELL: So your next steps are what?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 MALE PARTICIPANT: Well, I heard it a
2 couple different ways, but I think the way we left it
3 is you wanted to wake up Jason (phonetic) --

4 (Crosstalk)

5 MALE PARTICIPANT: I mean I don't know
6 that there's an immediate issue.

7 MALE PARTICIPANT: So we can wake him up
8 in the morning at 6 o'clock.

9 MALE PARTICIPANT: I was kind of anxious
10 to get back to Dan and give him a status or something,
11 but maybe I'm incorrect. Maybe we just want to cycle
12 him.

13 MALE PARTICIPANT: I really didn't want to
14 cycle him.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: Until we know what the
17 answer is.

18 MALE PARTICIPANT: Fair enough. All
19 right, that'll give us a little more time to dig in
20 and --

21 MALE PARTICIPANT: Just giving Dan a heads
22 up that there might be an inaccuracy here. So what
23 are we going to tell them if they called on this is
24 well, there may or not be. I mean I'm not sure we're
25 doing him much of a service.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MALE PARTICIPANT: Okay, then I also
2 wouldn't get back (b)(5) you know, until we talk to
3 Jason or Charlie.

4 MALE PARTICIPANT: So you talk to Jason
5 and Charlie (b)(5) and then you
6 talk to Dan.

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: (Inaudible) is that --

9 MALE PARTICIPANT: Now the difficulty is
10 going to be if we want to wait until morning I need to
11 have a good turnover with my replacement.

12 MS. EWELL: Well, call him before you
13 leave.

14 MALE PARTICIPANT: Yes, I would call him
15 before you leave.

16 MS. EWELL: 7 o'clock.

17 MALE PARTICIPANT: Oh, okay.

18 MALE PARTICIPANT: 6 o'clock. I'm just
19 saying --

20 MS. EWELL: Yes, 6 o'clock.

21 MALE PARTICIPANT: 3 o'clock.

22 MALE PARTICIPANT: (Inaudible).

23 MALE PARTICIPANT: Okay. And Jason rather
24 than Charlie?

25 MS. EWELL: I saw them both. And Charlie

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 said that they (inaudible), but most likely they're
2 going to want to stop a day to redevelop.

3 MALE PARTICIPANT: They may want to come
4 in and, you know, work from here or the deck rather
5 than (inaudible). But anyway we can get it started
6 before I leave. There's no problem with that.

7 MALE PARTICIPANT: Yes, I think 6 o'clock
8 at least would be a good --

9 MALE PARTICIPANT: Yes, and that'll help
10 people kind of kick it around for a little bit before
11 the (inaudible) be coming from OSTP is what I'm --

12 MS. EWELL: (Inaudible).

13 MALE PARTICIPANT: And then we also need
14 to interface (b)(5) like just in the morning and
15 then say, you know, we could run this again without
16 the delay or maybe we'll have more recon on it.

17 MALE PARTICIPANT: Well, I think we can
18 explain what appeared to you to be an error. I mean
19 that just might where, I might start there.

20 MALE PARTICIPANT: All right. This is
21 good news. Thank you.

22 MALE PARTICIPANT: Yes, this is good news.

23 MS. EWELL: So viewed from a sense that we
24 didn't make a silly error, you known the downside
25 would be we didn't make an error but your codes were

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (inaudible).

2 (Crosstalk)

3 MALE PARTICIPANT: We made a bigger error
4 potentially in code. (Inaudible) with it, because
5 it's not going to change the results by all that much.

6 MALE PARTICIPANT: No. But I'm still
7 worried that we're using last week's weather for --

8 MALE PARTICIPANT: No, I'm with you. This
9 is, if we're going forward, you know, if we were going
10 to do another run, maybe we would need to convene that
11 group again, say what are the conditions? What are
12 the conditions today?

13 Here we can explain what happened on the
14 21st, or what happened as a result of it being on the
15 21st, so we get its run on the 24th. MS.

16 EWELL: You have to recognize it takes NARAC a day or
17 two to turn their lab (phonetic).

18 MALE PARTICIPANT: Yes, and so I would
19 agree with you. I would agree with you completely
20 that going back and running this case, totally doesn't
21 make a lot of sense.

22 Shouldn't we look at where we are today
23 and the more likely scenario today?

24 (b)(5)

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 what thoughts we have and from where we sit.

2 MALE PARTICIPANT: But that's a whole
3 different conversation,

4 MALE PARTICIPANT: Which today I think we
5 would pretty much take off the table this (inaudible).

6 We would take off Units 2 and 3 and you would focus
7 on Unit 1 if we had got the concern about the hydrogen
8 and inability to flood out.

9 So then you'd have to think about for Unit
10 1 what fraction of the core would you want to assume
11 is melted and how much do you want to assume it's
12 released and over what period of time.

13 MALE PARTICIPANT: If you took the other
14 two units away and the spent fuel pool, you're
15 probably going to shrink that size back down to 12
16 meters, 12 kilometers.

17 MALE PARTICIPANT: Well, if you wanted to
18 take a snapshot today, and this could change tomorrow,
19 but I mean if you did the snapshot today, you know, I
20 would be the only one I'd be worried about in its
21 prediction.

22 By the way, we saw a bump up of the
23 variation of the (inaudible) and we were, I had my
24 guys to talk to RST, could they have been venting or
25 something?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 And do you think they just want to vent
2 Unit 1 because they want to inert first or something?

3 MALE PARTICIPANT: Well, they were talking
4 about inerting first, but I don't know if -- somebody
5 said that they had container pressures up in the 40
6 pounds or plus. Weren't you saying that, Jennifer?

7 Talking about Unit 1 and whether they
8 could have possibly vented. And my only thought is
9 it's possible that they had (inaudible), if they
10 haven't graded (phonetic) that --

11 MS. EWELL: Yes, they haven't, yes. We
12 would have seen a spike in (inaudible).

13 MALE PARTICIPANT: But that's what they're
14 saying that they saw a spike through the one.

15 MR. SULLIVAN: I mean it's probably in the
16 opposite direction. It's out of the main gate. It'll
17 probably blow out to sea, but we see that kind of
18 spike, right?

19 MALE PARTICIPANT: What time, Randy?

20 MR. SULLIVAN: I don't know.

21 MALE PARTICIPANT: (Inaudible), do you
22 have that current of status here?

23 MR. SULLIVAN: Sure.

24 MALE PARTICIPANT: You're not seeing real
25 time?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. SULLIVAN: No.

2 MALE PARTICIPANT: There was a delay, but
3 it was --

4 MR. SULLIVAN: Like hours ago. I can have
5 the guys come in.

6 MS. EWELL: (Inaudible) big huge spike?

7 MR. SULLIVAN: No, but, you know.

8 MALE PARTICIPANT: It's noticeably let up.

9 MR. SULLIVAN: From, you know,
10 (inaudible).

11 MS. EWELL: (Inaudible), twice as much or
12 is it --

13 MALE PARTICIPANT: Why don't I send the
14 guy in to brief you, because I would focus on this and
15 I would just (inaudible) --

16 MALE PARTICIPANT: And no, we have not
17 heard, and do you want me to do I mean with our
18 (inaudible) --

19 (Crosstalk)

20 MALE PARTICIPANT: Yes, so let me see if
21 he's hitched up with RST, if they know something, then
22 I'll ask him to come in and tell you what we do know.

23 MS. EWELL: Thanks.

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED)

8 minutes

MR. VIRGILIO: Hello, Dan.

MR. DORMAN: Hello, is this Marty?

MR. VIRGILIO: Yes, what's up?

MR. DORMAN: I just came from the

(b)(5)

MS. EWELL: Yes.

MR. VIRGILIO: Yes, yes.

(b)(5)

And the paper talked about them as plausible future outcomes.

MS. EWELL: Where are they getting these releases from? What codes were they using?

MR. DORMAN: It's coming from NARAC. And

(b)(5)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 (b)(5)

2
3 But we've marked up the paper, which is
4 currently, it doesn't have any classification markings
5 on it but I'm told that it's handled as confidential,
6 so they're sending it to you on the secure fax to the
7 HOO (phonetic).

8 MS. EWELL: (Inaudible), you've got to be
9 kidding me. All right.

10 MR. DORMAN:

(b)(5)

11 they're sending it back to Aoki.

12 (b)(5)

13
14
15
16 MR. DORMAN: Well, maybe it did. I don't
17 know the original sourcing of the document. I just
18 got handed a document with absolutely no markings on
19 it.

20 But as we started talking through it and

21 (b)(5)

22
23 Hang on a second. Somebody's talking to
24 me.

(b)(5)

25 MR. VIRGILIO: Okay, that's right. Now is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 it the plausible, realistic case?

2 MR. DORMAN: The plausible, realistic case
3 that we were talking about two hours ago is one of
4 three scenarios in this thing. The second scenario is
5 one reactor, very short release, blowing straight
6 toward the south.

7 And then the third scenario is a very
8 conservative release fraction from two spent fuel
9 pools all blowing to the south.

10 MR. VIRGILIO: That's not one of the cases
11 that -- well, you can combine I guess a couple of

12 (b)(5)
13
14

15 And I thought that they agreed to this V3
16 (phonetic) probabilistic, this plausible, realistic
17 case.

18 MR. DORMAN: Okay.

19 MR. VIRGILIO: And that was the one that
20 we were working with. But that was a week ago and it
21 doesn't really represent I think where we are today
22 with the reactors and the spent fuel pool.

23 MR. DORMAN: Well, that's kind of what I

24 (b)(5)
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 something I could have written a week ago before I
2 came over here.

3 MR. VIRGILIO: Right, and now, when
4 reactor conditions were different.

5 MR. DORMAN: Yes.

6 MR. VIRGILIO: And now we've got, I think,
7 if I were going to run this case tomorrow morning or
8 discuss it tonight, I would have put the spent fuel
9 pools off the table, and I'd probably put Units 2 and
10 3 off the table and just be focusing on Unit 1.

11 (b)(5)
12
13
14
15
16
17

18 But the ultimate point of the paper that
19 you'll see is, we were making these assumptions based
20 on very limited information, and we recognize there's
21 conservatism in there and we want to work with your
22 experts on getting the right assumptions.

23
24 (b)(5)
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(b)(5)

MR. VIRGILIO: Okay.

MR. DORMAN: So let me ask you to do this.

Let me ask you to take a look at the markup that we did on the paper, I'll email you the slides because those are in the clear.

But take a look at the markup that we did on this one-pager and then reach back downtown on your end and see if we can align on that in time for the chairman and the ambassador to meet with them in about 20, 21, 22 hours.

So we'll need it kind of first thing in the morning our time if we're going to make this work.

MR. VIRGILIO: Yes, yes. Now it makes sense.

MS. EWELL: Now is there a reason why they've got it, why can't they just make it OUO, because it makes things difficult when it's restricted.

MR. DORMAN: You're above my paygrade, Jennifer. I'm with you, but that's how they handle stuff I guess until they actually hand it over.

The slides I'll send to you from NARAC are marked OUO, but I'm understanding from the guys here

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 in the embassy that these kind of cables until they
2 actually swap hands when the ambassador meets with
3 them are treated as confidential.

4 MR. VIRGILIO: Okay.

5 MR. DORMAN: So I'm not making those
6 rules, I'm just --

7 MS. EWELL: We know, we know.

8 MR. DORMAN: -- doing what I'm told.

9 MR. VIRGILIO: Okay.

10 MR. DORMAN: All right?

11 MR. VIRGILIO: So send it on.

12 MR. DORMAN: Okay, thanks, bye.

13 MR. VIRGILIO: Bye.

14 MS. EWELL: All right.

15 (Conference call concluded)

16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED) 15 minutes

MR. CASTO: Good morning. Yes, I'm here.

MALE PARTICIPANT: Hey, what's going on?

MR. CASTO: We had talked about a matrix that was formatted to describe the status of each unit, what the licensee's actions are, what are recommendations are, what the gaps are, strategies. Remember?

MALE PARTICIPANT: Yes, oh yes. We remember. We talked about it earlier in the shift, and we were just trying to confirm that after all that we went through yesterday, or you went through yesterday, that you still wanted that.

MR. CASTO: Well, I had promised to him at 6 o'clock tonight that I would have that matrix, and it doesn't appear we have it.

MALE PARTICIPANT: Right, we spent all our energy in just revising the document today.

MR. CASTO: Okay. I just wanted to confirm I don't have it. So yes, because they, you know, they're handing me the 16 -- I can't hand them 16 pages.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 So I just wanted to confirm that you guys
2 didn't, you know, do the work on it and then, you
3 know, we didn't use it.

4 MALE PARTICIPANT: Earlier in the shift we
5 asked Dave to check to see if you still wanted it.
6 And hang on, we're getting him now. I don't know if
7 he touched bases with any of your staff out there or
8 where we are on this.

9 How was J-Village?

10 MR. CASTO: It was interesting. We'll be
11 briefing on it later, but definitely not worth putting
12 anybody there.

13 MALE PARTICIPANT: Okay.

14 MR. CASTO: You know, it's a clothes
15 changing building.

16 MALE PARTICIPANT: Okay, kind of like an
17 operational support center or something?

18 MR. CASTO: Not even that. It's just a
19 way station, you know. They bus people in from there
20 and they, you know, they have them dress out.

21 They bus them in to the site from there,
22 and then when they come out contaminated, they bring
23 them out there, monitor them, decon them and send them
24 to the rear. [REDACTED] (b)(5)

25 [REDACTED] (b)(5)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 MALE PARTICIPANT: (b)(5)

2 MR. CASTO: (b)(5)

3 all. But we did get a lot of insights and I happened
4 to talk to the resident inspector who was rotating out
5 so, you know, we got a lot from him I'll share you
6 with later, (b)(5)

7 (b)(5)

8 And we got a lot of insights about the
9 working conditions and life on the site, which are
10 horrendous, and some other information. But, you
11 know, it was worth going up to find out that we don't
12 need to go up.

13 MALE PARTICIPANT: Yes, now that is good
14 to know.

15 MR. CASTO: Yes. And we flew over the
16 ocean and we actually found the barge on its way up
17 there too so we have --

18 MALE PARTICIPANT: One of the water
19 barges?

20 MR. CASTO: Yes, we found a water barge
21 out there being towed so we have some pictures of that
22 on the ocean we can send in sometime.

23 MALE PARTICIPANT: All right.

24 MS. EWELL: But does one of the admirals,
25 do they have people at J-Village? I mean they were

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

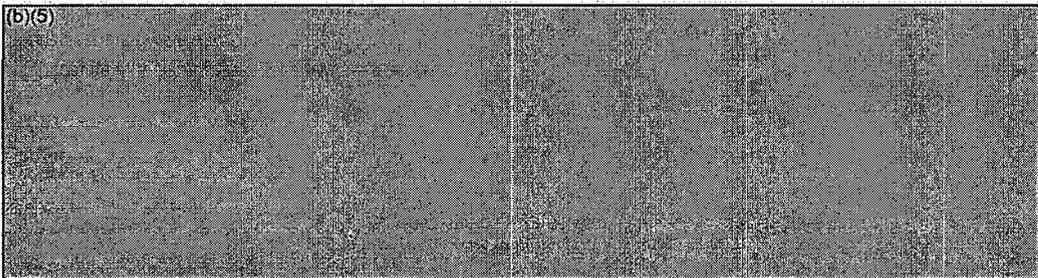
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the ones that were indicating that we were missing
2 quite a bit.

3 (b)(5)



7 in that.

8 MS. EWELL: Dave's here.

9 DAVE: Hey, Chuck.

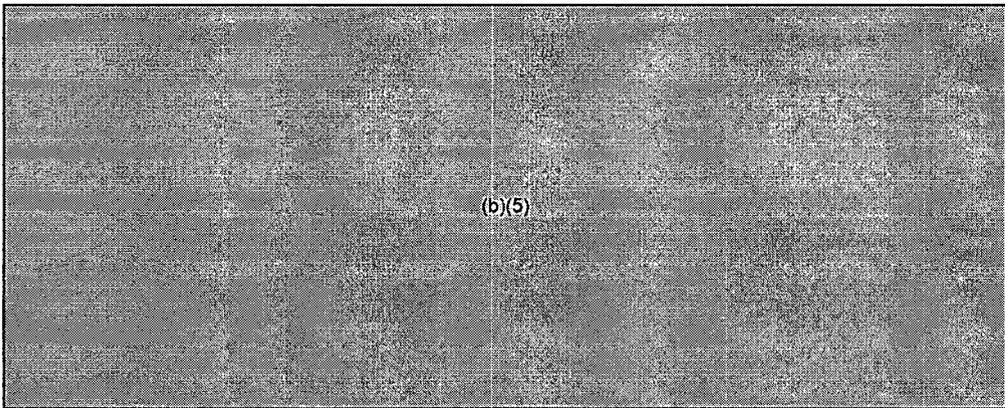
10 MR. CASTO: Hey.

11 DAVE: How's things?

12 MR. CASTO: Just a little busy. It was a
13 little windy on the back nine today but we got through
14 it.

15 DAVE: Well, that's good to hear. Hey
16 listen, you're still looking for this reformatted
17 thing of our assumptions for each unit and then
18 recommendations for what you do if they (inaudible),
19 right?

20
21
22 (b)(5)
23
24
25



NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

(b)(5)

1
2
3 that we have. So I'll, you know, Marty knows that I'm
4 good at dancing around things.

5 DAVE: Okay.

6 MR. CASTO: When I'm empty handed.

7 DAVE: I've got one our folks working on
8 to, you know, to put all the assumptions down in one
9 column and then try to put the recommendations. It's
10 not that easy, but we're working on it.

11 MR. CASTO: Yes, but we're talking like an
12 80,000 foot -- I mean, you know, that matrix that
13 gives the plant status and, you know, for the

14 (b)(5)

15 I mean, you know, all I'm talking about is
16 something at that level. I mean 80,000 to 100,000
17 foot.

18 DAVE: So not as detailed as (inaudible).

19 MR. CASTO: Oh, not even a fraction of
20 that. You know, something that says, you know, our
21 recommendation is to inert and vent and flood.

22 (b)(5)

23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 know, what are the activities?

2 I mean, you know, we're talking like that

3 (b)(5)

4 that does that. I could even have somebody do that
5 here or --

6 MS. EWELL: Yes, we didn't get quite that
7 description of what you wanted. Somehow that fell
8 through the cracks as far as --

9 (b)(5)

10
11 it out.

12 But I'll probably have either you guys or
13 us or somebody put together a -- and then the other
14 thing that I think John Monninger's working on I
15 think, is a milestone chart of, you know, what's the
16 next milestone of recovery, you know.

17 And a chart so that we can look at it and
18 say okay, we're making progress towards some stable
19 recovery state.

20 (b)(5)

21
22
23
24
25 So I've got John Monninger trying to work

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 up sort of a milestone of success and he can see if
2 we're making progress towards some stable recovery
3 state or not making progress.

4 We have to, you know, show people that,
5 they need something in their hand to say that we are
6 or are not making progress and what they can expect.

7 (b)(5)

8
9 You know, there's no forecast of, where
10 are we headed? Does that make any sense?

11 DAVE: Yes.

12 (b)(5)

13
14
15 organizations saying, you know, I just can't remember
16 what day it was, Friday or Saturday, you know, that

17 (b)(5) progress is
18 being made, when it was one of our gloomy days.

19 (b)(5)

20
21
22 blue skies.

23 So he's looking for something that, you
24 know. And I said well, you know, it might be one of
25 those days where you make little progress on something

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 but overall you're still not making progress.

2 DAVE: And I would think you could key off
3 that document that we've worked on and sent out at the
4 end of the last shift.

5 MR. CASTO: (b)(5)
6 think in this in terms of recovery is the venting
7 concern.

8 You know, (b)(5)
9 this thing going to stop venting, and if you're going
10 to have to do periodic manual vents, what's the
11 periodicity of that and, you know, when does it start
12 to slow down or stop?

13 (b)(5)
14

15 MR. CASTO: (b)(5) We
16 mainly hear from the news media I guess. I don't
17 think they're, you know, they're not coming down to us
18 and saying, we have to vent tomorrow.

19 DAVE: Well, Chuck, I just got off the
20 phone with (b)(6) (phonetic) and his folks.

21 We went through all this and, you know, we
22 were talking about, you know, was seeming like the
23 pressure was going up a little bit, and his question
24 to us was, well, what would our recommendations be on
25 when they should vent?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

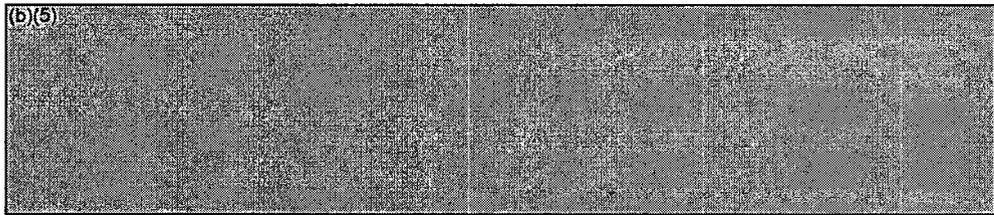
(202) 234-4433

www.nealrgross.com

1 And I think we put all that in the paper
2 but, you know, what you would do (inaudible) in our
3 country if it was, say it was 60 pounds with design
4 pressure at 150 percent or so, around 90 pounds or
5 something, you would say yes, you probably need to
6 vent. And that's when you can inert or not.

7 At that point you're getting in danger of
8 breaking containment. But, you know, we can give that
9 kind of general advice but you can't say exactly when
10 the Japanese should vent.

11 (b)(5)



14 MR. CASTO: Right.

15 DAVE: But I don't think they think the
16 same way we do that at some point you're getting up
17 above design pressure so high that you're going to
18 have to vent regardless of whether you inert or not.

19 MS. EWELL: But you've got to vent before
20 you inert because they're adding more (inaudible), so
21 you're going to have to vent and then enough to be
22 able to replace that atmosphere with a bunch of
23 nitrogen.

24 MR. CASTO: Right. But and that's the
25 kind of thing I think he's looking for is, you know,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

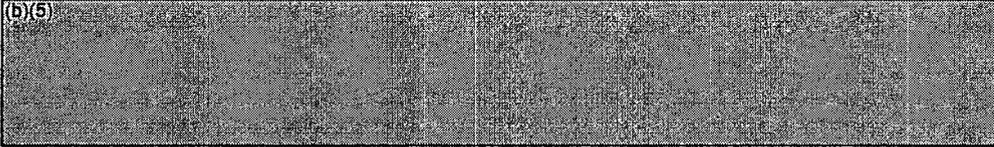
(202) 234-4433

www.nealgross.com

1 we would vent at this point.

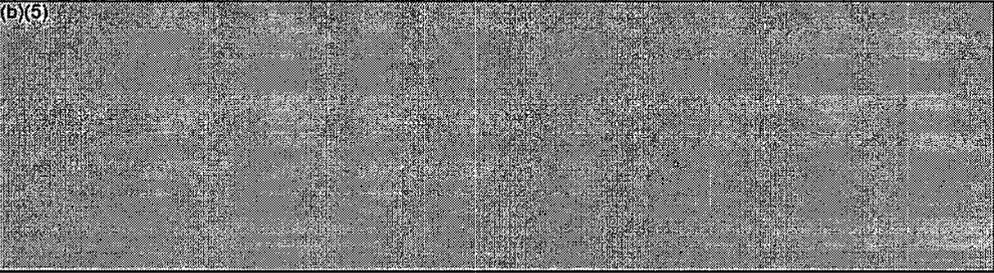
2 TEPCO's saying they don't want to vent at
3 this point and what's our dialogue. What's our
4 strategy to understand that? That's the kind of thing

(b)(5)



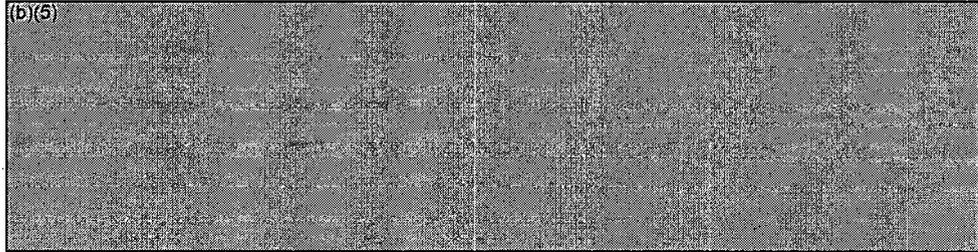
5
6
7 make sure we have command and control here, you know,
8 instead of just coming up and giving verbal briefs.

(b)(5)



9
10
11
12
13 So verbal briefings are not as powerful as
14 something written down and something, you know,
15 concise and visual that he can carry around in one
16 page in his notebook.

(b)(5)



17
18
19
20
21 MS. EWELL: Okay, but I think, I mean at
22 this point don't we, they're first filling up
23 (phonetic) the containment which for Units 2 and 3 is
24 a good thing. They're trying to restore, you know,
25 heat removal, which is a (inaudible).

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

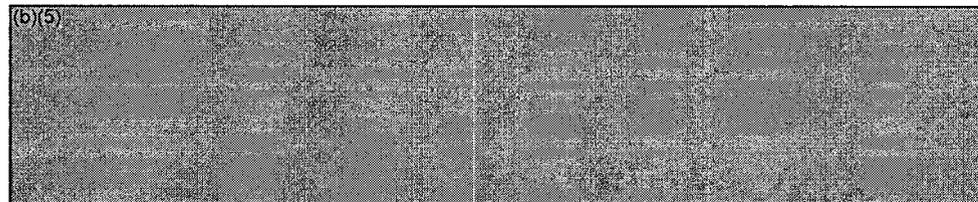
www.nealrgross.com

1 MR. CASTO: Well, and if that's one of the
2 milestones write it down. Restoration heat removal,
3 okay, which units have heat removal restored, boom,
4 boom, boom.

5 You know, whatever those things are, those
6 milestones, you know, we've got to give him those
7 milestones so he can see progress or not progress.

8 MS. EWELL: So are you asking us to do
9 that or are you, is John Monninger doing that?

10 MR. CASTO: Well, I'd asked John to do it
11 and I don't know where he's at on it. I'll check and
12 see but, you know, I need those milestones so he can
13 measure our progress.



15
16
17 MS. EWELL: Well, I mean one thing to ask
18 TESCO if you ever get the chance, or these guys, you
19 know, how are they, are they planning to try to
20 restore heat removal to the core before they --

21 MR. CASTO: They would like to use their
22 installed systems if possible. Meanwhile, yesterday
23 they got a contract with Shaw to build an external
24 system. So if we --

25 MS. EWELL: (Inaudible) space that they're

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 in right now with this periodic venting for a long,
2 you know, quite a bit of time.

3 MR. CASTO: And so yes, until they get the
4 heat removal system, but he needs to know that. It
5 needs to be shown to him. Okay, they need heat
6 removal. Here's the internal, here's the prognosis of
7 the internal, here's the timeline on the external.

8 We call Shaw and say, hey, when do you
9 guys think you're going to have a heat exchanger for
10 Unit 2, Unit 3 and Unit 1, you know, what's your
11 timeline on this? And they give us a timeline,
12 and we say okay, sir, you know. It isn't going to
13 happen before, you know, 1 May, because that's when
14 Shaw says they'll have a heat exchanger installed.

15 MR. MILLER: Chuck, Chris Miller. And we
16 were talking about this earlier and I'm just wondering
17 if that isn't, you know, isn't the reason why we need
18 that document kind of reformatted.

19 You know, the severe accident management,
20 you know, what are the key elements of it, and then
21 you have another section of the matrix that says this
22 is what they've actually are going to do or how
23 they're addressing that element.

24 You know, that gets your milestone.

25 MR. CASTO: Yes, Chris, I think you're

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 going down the right track there with that kind of
2 stuff. You know, pull out the big functional things
3 out of that matrix and then say, okay, this is what
4 they intend to do on this area. And then, you know,
5 what's the timeline, you know.

6 MR. MILLER: So we could actually show it
7 to them. I mean we pull out the big pieces and then
8 hand the document to them and say, you tell us which
9 of those pieces you're doing and yes, when you're
10 thinking of doing it. For example, the Shaw thing.

11 MALE PARTICIPANT: Or getting nitrogen
12 purge capabilities.

13 MR. CASTO: Yes, nitrogen purge. You
14 know, nitrogen purge is a milestone. Okay, you know,
15 what's the timeline on nitrogen purge?

16 And then one bright and shiny morning I
17 walk in there with this matrix and says, hey, today's
18 the day they did the nitrogen purge. And, you know,

19 (b)(5)

20
21 MALE PARTICIPANT: Yes, (inaudible)
22 populate that matrix with deliverables from others
23 over which you have no control.

24 MR. CASTO: That's a problem. You know,
25 you have to call them and try -- but you can ask TEPCO

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 what, you know, what they have, what prognosis they
2 have for that.

3 MR. MILLER: Well, yes. You give them the
4 opportunity to make their own milestones and then you
5 ask them about them everyday, and how are you doing on
6 the thing, you know, just one of that one or the
7 other.

8 MR. CASTO: Right.

9 MR. MILLER: And be prepared to adjust
10 that chart frequently because I'm sure they're going
11 to fill in the most optimistic milestones and you're
12 going to wind up with delays.

13 MR. CASTO: Well, I appreciate it. That's
14 good thinking. I don't know if we got anywhere, but
15 that, you know, Chris, I think's got it and Mike it
16 sounds like, and I know Marty understands what we're
17 talking about.

18 I've got to go around the team here

19 (b)(5)

20
21 start rolling into the Cabinet meetings.

22 So now it's time for me, or finally today
23 it's time for me to earn my money.

24 MR. MILLER: Okay.

25 MR. CASTO: All right, guys. Thanks a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 lot. We'll talk to you tonight sometime after one of
2 those meetings.

3 MR. MILLER: Okay.

4 MALE PARTICIPANT: All right.

5 MR. CASTO: All right, thanks.

6 (Conference call concluded)
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED)

13 minutes

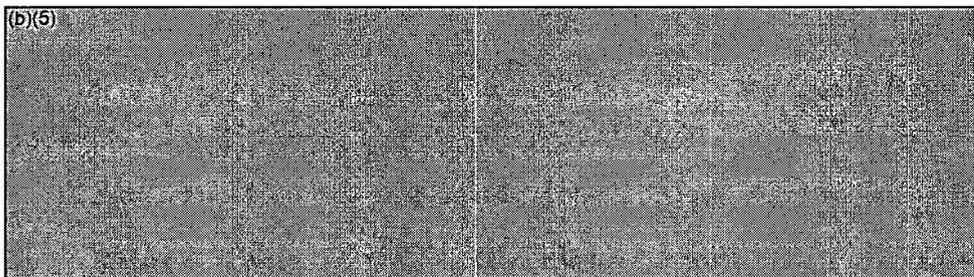
MALE PARTICIPANT: Mike, are you there?

MR. SCOTT: Hello, this is Mike Scott.

MS. EWELL: Hey, Mike. It's Jennifer.

MR. SCOTT: Hi, Jennifer, how are you
doing?

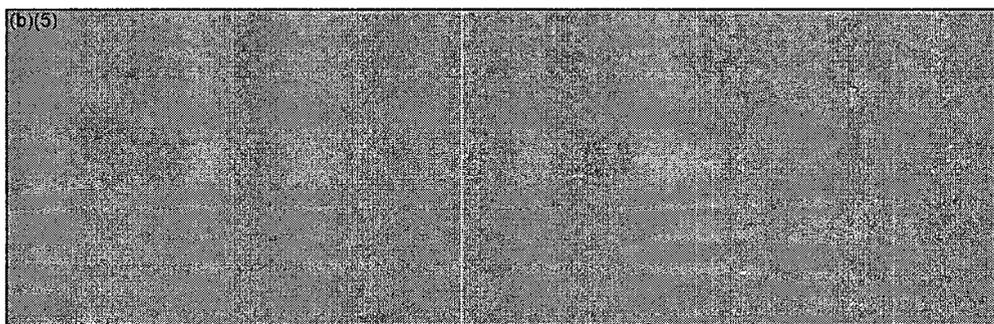
MS. EWELL: Good. So you're trying to



MS. EWELL: Yes, I know. Okay, so I'm
here to plague you once again.

MR. SCOTT: Okay, well, that's fine.

MS. EWELL: Okay. We're just confused as
to the questions about whether or not, you know, the
heads of each of the organizations have left this
document.



NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

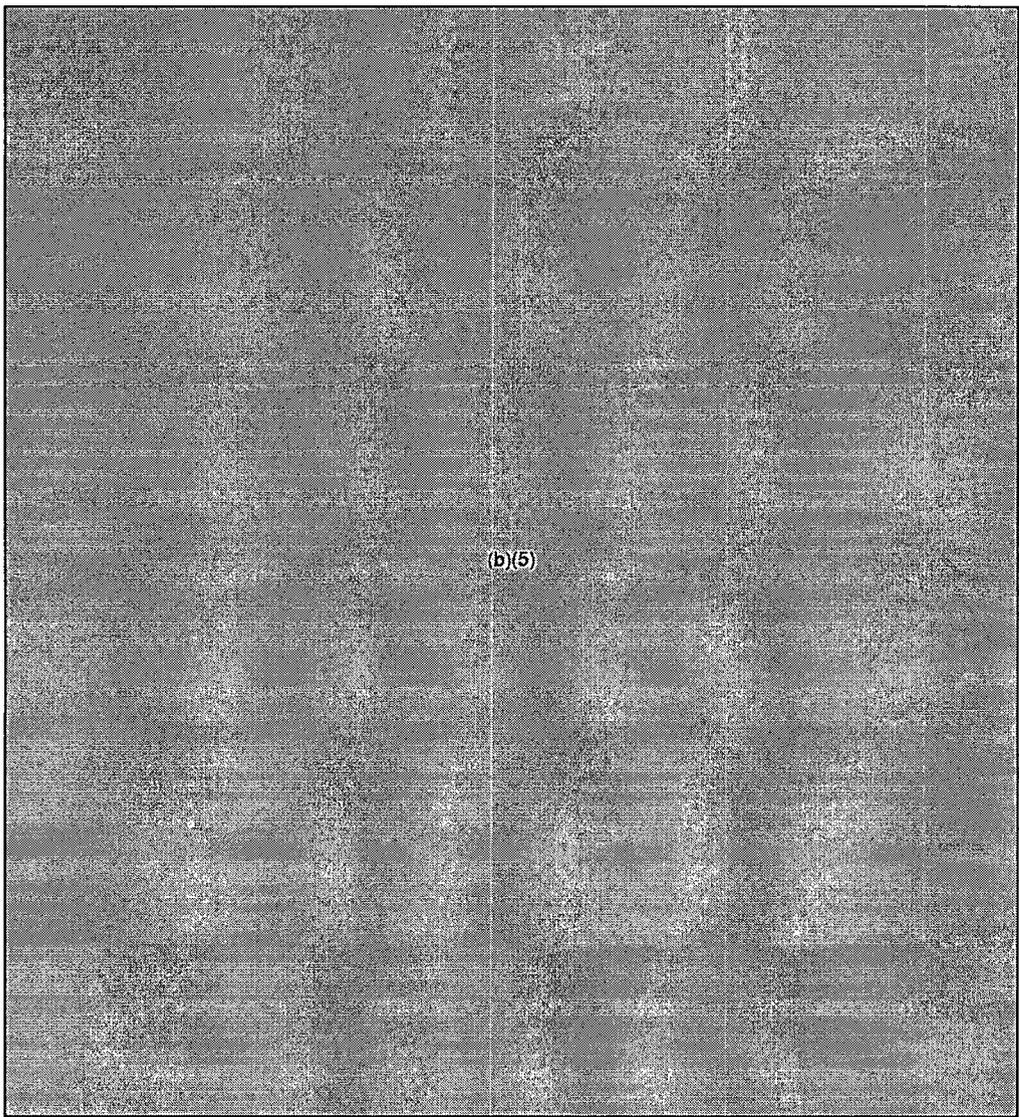
1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25



(b)(5)

MS. EWELL: Yes. I mean it was, you know,
less than --

MALE PARTICIPANT: Supposed to be 7:15
last night.

MS. EWELL: Yes, yes.

MR. SCOTT: What was that? I didn't hear
that.

MS. EWELL: Yes, it was 7:15 last night
our time, right?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: That was what I --

2 MR. SCOTT: So how long ago was that?

3 MALE PARTICIPANT: About 11 hours ago.

4 MR. SCOTT: Okay, so 11 hours ago the

5 chairman called the ambassador

6 (b)(5)

8 MS. EWELL: Yes, that's our understanding.

9 MALE PARTICIPANT: Well, we do also know
10 the chairman very shortly after that was getting on a
11 plane and going to Japan.

12 MR. SCOTT: Right. Well, what I have been
13 asked by Chuck Casto was to address this issue again.

14
15
16
17
18 (b)(5)
19
20
21
22
23

24 MS. EWELL: Okay, senior management makes
25 us feel more comfortable obviously because, you know,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 the most senior management who has a background in
2 severe accident management, that makes sense.

3 But to go to all the way to the top of any
4 organization, that's kind of a crap shoot whether or
5 not that person has that background. You see what I
6 mean?

7 MR. SCOTT: Yes, I understand. And I
8 think it would probably be viewed as okay if we said
9 the senior nuclear whatever thought that the document
10 was okay.

11 I mean it's almost like any kind of
12 pedigree on it other than just the senior watch
13 officer would be viewed as okay. Not that I'm trying
14 to put down senior watch officers, I know I'm talking
15 to some of them.

16 But, you know, you understand the point
17 that I think that if you said the VP Nuclear or
18 something like that, that might provide a comfort
19 factor.

20 MS. EWELL:

21
22 (b)(5)
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. SCOTT: But, you know, Jennifer, I
2 could say that the other way and say well, you know,
3 I'm the Japanese. And you U.S. people you handed me
4 this thing and it's got recommendations on it. What
5 am I supposed to think?

6 MS. EWELL: Okay, but that was going to be
7 after a discussion with the Japanese about whether or
8 not the conditions that we're expecting to exist in
9 those plants that are requested in the document are,
10 in fact, true and --

11 MR. SCOTT: Stated another way, there is
12 in many cases a lack of information or a limited
13 amount of information regarding the actual plant
14 conditions. So the document that is provided is based
15 assumptions about those conditions.

16 MS. EWELL: Right, right. And also in
17 that discussion would be, well, here's what we would
18 do, but obviously it's your plant and you have to make
19 the final decision.

20 MR. SCOTT: Right. Yes, of course.

21 MS. EWELL: That's -- yes, that's fine.

22 MR. SCOTT: And that's my responsibility
23 as one of the individuals that would be handing this
24 thing off to them to make sure that they understand
25 that.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 But, you know, still and yet that if
2 something happens to go wrong they're going to point
3 at that and say well, the U.S. told us that this was a
4 good idea.

5 MS. EWELL: Wait a minute --

6 MR. SCOTT: I mean I don't see how we
7 avoid that entirely. We have to step out on a limb a
8 little bit here and say, you know, based on what we
9 know this seems like a good approach or maybe the best
10 approach.

11 And that's what that document does, any
12 way you slice it, it does that. And we can caveat it
13 and, you know, say that as we will, but then we're
14 still going to be perceived to have quote "endorsed
15 it" unquote.

16 MALE PARTICIPANT: What we're saying is if
17 we had these conditions at a plant in our country,
18 these would be the recommended actions that you would
19 take.

20 That's what our whole emergency planning
21 is built off of and why we do severe accident
22 guidelines.

23 MALE PARTICIPANT: If, in fact, those
24 assumptions are correct.

25 MR. SCOTT: Yes, I understand and that of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 course is the caveat we'll put on it too, fully agree.

2 MS. EWELL: Okay. But, you know, if you
3 are hearing that the Japanese are interpreting this to
4 mean that the U.S. is taking some sort of liability on
5 their hands, you know what I mean, that's not --

6 MR. SCOTT: Well, of course that is not
7 the context that this thing is being discussed now. I
8 haven't heard the word liability or any implication
9 associated with that at all.

10 MS. EWELL: All right.

11 MR. SCOTT: These guys are, they are
12 absolutely thrilled that we're trying to help them
13 out. I mean we are accomplishing all sorts of, you
14 know, goodwill stuff here for the level of effort
15 that's being put into this thing.

16 MS. EWELL: Okay.

17 MR. SCOTT: So I don't, there's no bad
18 vibes here at this point.

19 MS. EWELL: All right, all right.

20 MR. SCOTT: And they're also, they're
21 effectively aligned. They said, you know, this is
22 kind of where we were going anyhow.

23 MS. EWELL: Okay, good. All right, you're
24 making me feel better. All right, yes.

25 MR. SCOTT: Although let me stick a caveat

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (b)(5)

2
3 attempting to inert the containments if it's possible
4 to do so, to take the hydrogen thing out of the
5 picture.

6
7 (b)(5)

8
9 MS. EWELL: All right, yes. But just hold
10 on for a second. You can't inert unless you've got
11 the cushion there in as far as adding additional
12 pressure.

13 MR. SCOTT: Yes, we're aware of that.

14 MS. EWELL: Okay. All right, so they may
15 be looking like, look, we've got a vent to provide a
16 reduction in pressure before we add more
17 noncondensables (phonetic) in that containment.

18 (b)(5)

19
20 is to try to find a way in the excruciatingly high rad
21 levels to get the nitrogen injected in there.

22 MS. EWELL: Okay, all right.

23 (b)(5)

24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(b)(5)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

We've got people working on this 24 hours a day, seven days a week until we sort out whether we can inert or not.

(b)(5)

Yes, the word that we got from

the people -- this is (b)(5)

The word I got from people who went to J-Village was that people at J-Village who were doing

(b)(5)

MR. SCOTT: I have not heard that specific data point, but I am not shocked to hear that. They were in concept stage about gee, can we do this?

You know, let's pull out a PNID (phonetic) and see if there's a relatively low dose area we can hook up to. You know, that kind of thing. And then they might go to equipment.

(b)(5)

1 parallel. But there you go.

2 You know, in general and in theory they
3 are on the same page as we are.

4 [REDACTED]
5 (b)(5)
6 [REDACTED]

7 MS. EWELL: All right, so again we'll just
8 verify that everybody or all organizations are at
9 least aware of this document and have, you know, don't
10 have the major heartburn with it, at the appropriate
11 level.

12 MR. SCOTT: Yes, at the appropriate senior
13 management level, yes, I'd add that caveat to it.

14 MS. EWELL: Okay.

15 MR. SCOTT: Okay. When do you think we
16 might get some feedback on that?

17 MS. EWELL: Well, I mean we're looking at

18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]

22 The chairman has, you know, been briefed
23 on this to some degree and this is coming from severe
24 accident management guidelines, so it, you know, it
25 doesn't have anything in it that is absurd.

So you can ask the chairman himself if

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 he's comfortable with that, but I would, I mean I
2 would, I'm not obviously --

3 MALE PARTICIPANT: Just contact the Ops
4 Center (inaudible) and when they get back to us
5 they'll tell us.

6 (b)(5)

7
8
9 ask if he's been briefed on it or call the --

10 (b)(5)

11
12
13 MS. EWELL: Okay, so he's at the level
14 where he can say yes, this makes sense to us.

15 MR. BELL: Yes, he can. And that's who we
16 would go to.

17 MS. EWELL: That's not what I'm asking
18 though.

19 MR. BELL: No, that's who we would brief.
20 We would brief the admiral as the technical person in
21 charge.

22 MS. EWELL: All right, as long as --
23 whatever. Okay, fine, okay.

24 MALE PARTICIPANT: Who are the other
25 contributors? (b)(5)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MS. EWELL: Yes, (inaudible), yes, INPO
2 and that's great, yes.

3 MALE PARTICIPANT: and INPO, that's who we
4 had on the phone talking about it so --

5 MS. EWELL: And that brief, yes.

6 MALE PARTICIPANT: I mean INPO's got a guy
7 embedded with you folks over there. I wonder if he
8 could help with the INPO.

9 MR. SCOTT: The INPO guy is here, yes. We
10 have Al Hochayvar (phonetic). I can push on him for
11 that piece.

12 MS. EWELL: Okay, all right.

13 (b)(5)

14
15 MS. EWELL: Well, we're working trying to
16 get -- yes. I don't know if that (inaudible)
17 contributed or not. I don't think so. They don't
18 have thermal hydraulics people or (inaudible). I
19 think it's probably just INPO.

20 MR. SCOTT: Okay. All right. Well, I'll
21 go ahead and convey that to Chuck.

22 I think the intention here is that when
23 the chairman gets here in the morning we're going to
24 hand this document to him, tell him that it has been
25 agreed to by the ET there and whatever else we can say

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 about the other organizations.

2 And we're going to suggest that he provide
3 it to the Japanese tomorrow morning our time, which is
4 roughly, I mean he gets here about 13 hours from now I
5 think it is, 12 hours, something like that.

6 MALE PARTICIPANT: We should have an
7 answer back by then.

8 MS. EWELL: All right, sounds good.

9 MR. SCOTT: Okay, thank you very much.
10 Appreciate your help. So if you could get any
11 additional information on those other parties, if you
12 could send us an email that'd be good.

13 MS. EWELL: Okay. All right, see you.

14 MR. SCOTT: Thanks a lot. Have a great
15 day.

16 MS. EWELL: See you.

17 MR. SCOTT: Bye.

18 (Conference call concluded)

19

20

21

22

23

24

25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

3 minutes

MALE PARTICIPANT: All right. That's called leave it for the day shift. So what I heard from him, they haven't shared that paper at all with the Japanese. I

(b)(5)

(Crosstalk)

MALE PARTICIPANT: So they're going to take care of INPO themselves.

(b)(5)

(inaudible). Let us know when someone high level with (b)(5) about this and has no problem with (inaudible).

(b)(5)

MALE PARTICIPANT: Yes, tell them that they have to get that to you then (inaudible).

MALE PARTICIPANT: Yes. And I don't know,

(b)(5)

MALE PARTICIPANT: I don't think (b)(5)

MALE PARTICIPANT: Got their name on it, all these organizations at the top. (Inaudible), we've got TEPCO and JAIF (phonetic) on there too. Should we contact them and see if they're okay with

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 this information that we have?

2 MALE PARTICIPANT: I don't know. I don't
3 think so.

4 MALE PARTICIPANT: I'll see what we can
5 do.

6 MALE PARTICIPANT: All right, thanks. Any
7 changes to the one-pager? I'm going to send that out
8 if you don't have any.

9 MS. EWELL: Oh, no, Dave -- that one about
10 future collaboration, you know, to update.

11 MALE PARTICIPANT: Okay. He's working it.

12 MS. EWELL: No, no, I showed him
13 incentives (phonetic) that I didn't think that --

14 MALE PARTICIPANT: Okay.

15 MS. EWELL: Yes, because I've got to get
16 this out. (b)(5)

17 today.

18 MALE PARTICIPANT: (Inaudible). And what
19 he's saying is it's not very (inaudible). So I'll see
20 if I can get clarified on it. Localized (inaudible) a
21 whole floor of the building dedicated to the port
22 (phonetic) sending personnel to that spot.

23 That's what that's based on. There's a
24 lot of activity. The data, they'll be looking at the
25 data that was put out by NISA that indicates

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 pressurized cool down.

2 MS. EWELL: So we heard that they had
3 power and things are fine.

4 MALE PARTICIPANT: That's where it's
5 coming from. And I think one of the concerns is the
6 chairman going to get there in 12 hours, get blind
7 sided (inaudible). There's a problem with the other
8 side too. Four more reactors are in jeopardy.

9 MS. EWELL: Yes, well, when those guys get
10 back in we'll send those guys an email, tell them
11 because the chairman's not going to get it for awhile.

12 MALE PARTICIPANT: I'll call Roberts, who
13 was here last night because he may, I think he
14 probably already briefed me on (inaudible) but I'll
15 have to --

16 MS. EWELL: Okay, yes, we haven't heard
17 one word.

18 MALE PARTICIPANT: If not, I'll get him to
19 get to it.

20 MS. EWELL: All right, thanks.

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

4 minutes

MALE PARTICIPANT: So that's working. If you go down there there's a couple of things. Plant status, (inaudible), the Navy was working to get freshwater barges there to help supplement in case they need it.

Right now the freshwater's coming from the dams upstream and it's shooting all through the (inaudible). So it's not being put in in very large quantities, like 50 gpm or something, but it's going in there and it's fresh water, it's not too bad. It's the amount of salt that (inaudible).

There's a line in there that says the new government has requested help with shielding. You know, we were thinking, you know, lead (inaudible), lead blankets, that kind of stuff.

They're actually talking about building walls or buildings around so that the dose goes, gets knocked down out of the site boundaries (inaudible). So that was one of the kind of updates that we got that was a little bit different than the way we were

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 thinking.

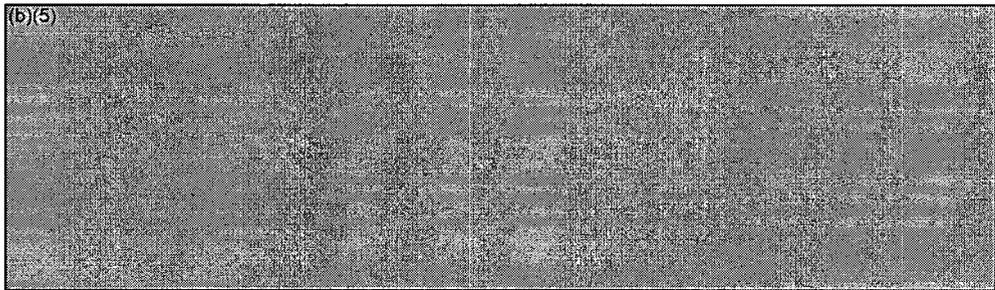
2 And then that work with Shaw Company for a
3 chiller system to put in there as a heat removal
4 system. Shaw's an engineering firm, pretty good
5 sized.

6 This next line in, I'll show you that
7 product. They have, the NRC (inaudible) has provided
8 a coordinated set of recommendations, it's a severe
9 accident recommendation. So let's just talk about
10 that for a minute. It's a --

11 MALE PARTICIPANT: And I saw something in
12 the vaults here, a thing that said that there wasn't
13 (inaudible).

14 MALE PARTICIPANT: Yes, exactly. What
15 they're doing is a sensitive point.

16 (b)(5)



17
18
19
20 MALE PARTICIPANT: We had that discussion.
21 I think what they're looking for them to do is just
22 say, we've been briefed on it. We understand, you
23 know, at the senior level but the agency --

24 (Crosstalk)

25 MALE PARTICIPANT: But you're right. That

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
(b)(5)

9 MALE PARTICIPANT: Yes, and we had that.
10 A half an hour before you walked in we had that
11 discussion with the site team over there with Mike
12 Scott.

13
14
15
16
17
18
(b)(5)

19 MALE PARTICIPANT: Yes, now it's us on the
20 hook for doing (inaudible).

21 MALE PARTICIPANT: That's all right.
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

4 minutes

MALE PARTICIPANT: The assumption that's built into this is that we've had the problems in the cooling of Unit 3, that you didn't have a release for 24 hours because that's when the hydrogen explosion (inaudible).

Now it turned out, and Jason Chaparow has given Lou background (inaudible) research done by Dana Powers and a bunch of others on natural phenomenon played out, you get an enormous amount of played out (inaudible) expect the noble gas leak.

And you can hold it inside of that containment (inaudible). So when you finally release it, the numbers for iodine and cesium are a lot lower though it could be seeking (inaudible) because a bunch of that had a chance to play out inside there, so that what we've actually released is smaller.

So in fact, we now have some degree of confidence that people have settled around and talking with the folks (inaudible) that what we did

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (inaudible) with the model was basically correct, and
2 we now have the story for why (inaudible) up there,
3 everything else was such a low fraction.

4 It just has a 24-hour played out
5 (inaudible) the actual (inaudible).

6 MALE PARTICIPANT: Was Unit 3 the last
7 containment to blow up?

8 MALE PARTICIPANT: Unit 2 was.

9 MALE PARTICIPANT: They cut a hole in 2.
10 Unit 1 blew, Unit 4 --

11 (Crosstalk)

12 MALE PARTICIPANT: And then Unit 3 was
13 that wonderful big (inaudible).

14 MALE PARTICIPANT: Unit 3 was the last
15 one.

16 MALE PARTICIPANT: I'd have to go back and
17 look at the map.

18 MALE PARTICIPANT: What I'm just wondering
19 is does our assumption that the one day of holdup,
20 does that align with reality?

21 MALE PARTICIPANT: Yes, (inaudible).

22 (Crosstalk)

23 MALE PARTICIPANT: From our chronology, we
24 documented that it looks like the (inaudible) being
25 uncovered on the 13th that (inaudible), and then the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 explosion was a day later on the 14th at 11 o'clock,
2 so essentially 23 hours based on actual documentation
3 of the event that it played out.

4 MALE PARTICIPANT: And then the core was
5 recovered?

6 MALE PARTICIPANT: The core recovered to
7 some extent.

8 (Crosstalk)

9 MALE PARTICIPANT: The last I saw just
10 coming on shift is that water's up to its own point,
11 but whether everything above that is now --

12 (Crosstalk)

13 MALE PARTICIPANT: To release it from 1, 2
14 and 3, 3 was lower than the other two?

15 MALE PARTICIPANT: That's correct.

16 MALE PARTICIPANT: (b)(5)
17 put into a spreadsheet the activities, and Unit 3
18 stood out because everything was less than one
19 percent.

20 (Crosstalk)

21 MALE PARTICIPANT: Like this iodine, for
22 example. (Inaudible).

23 (Crosstalk)

24 MALE PARTICIPANT: By a factor of almost a
25 hundred.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: That caught their eye.

2 MALE PARTICIPANT: Similar sorts of things
3 with cesium. (Inaudible).

4 MALE PARTICIPANT: I mean this all, I mean
5 it's maybe 20 percent more, but it's about Unit 1
6 (inaudible) it's about --

7 (Crosstalk)

8 MALE PARTICIPANT: But the net percentage
9 wise, they looked at this and oh my gosh, something's
10 wrong.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

4 minutes

MALE PARTICIPANT: Nobody remembers what sequence things blew up, I don't. You know, so whether in the time, in the fact that it was 24 hours later before the Unit 3 (inaudible) exploded that --

MALE PARTICIPANT: We actually have a little graph hanging up over in the corner which actually correlates the releases and the times of each of the events. And you can see (inaudible) on every single one.

MALE PARTICIPANT: But I thought the spikes for the Unit 3 explosion was the highest.

MALE PARTICIPANT: I'd have to go back and look at the graph.

MALE PARTICIPANT: Because I thought I just threw away, yes, I couldn't figure out why Ariba (phonetic) is standing in 100 pages of, I don't know, promo or something like that.

MALE PARTICIPANT: It had the biggest explosion. 3 was certainly the most spectacular

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

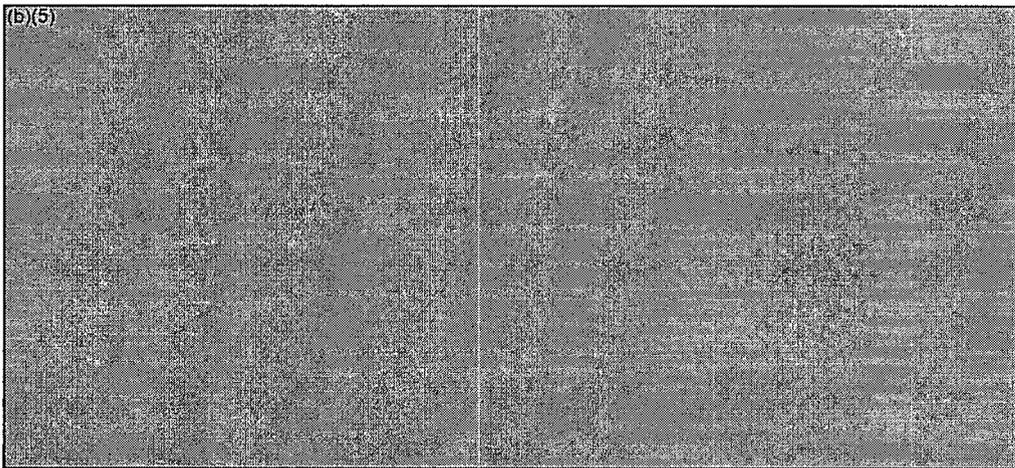
1 explosion on the (inaudible). (Inaudible) Unit 2 had
2 the (inaudible) release, but I'm not sure that's the
3 case.

4 There's a document in there that says Unit
5 4's spent fuel had the (inaudible). I'm not sure
6 where it -- and that's what we thought caused all the
7 contamination and that (inaudible) sent them out to
8 the northwest. They correlated perfectly with the
9 Unit 4 pop (phonetic).

10 MALE PARTICIPANT: They had a set of
11 spikes in that.

12 MALE PARTICIPANT: Sometime when things
13 have settle down a little bit I'll bring that in and
14 we can look at it. But I wanted to brief you and let

15 (b)(5)



16
17
18
19
20
21
22 MALE PARTICIPANT: Well, except that I
23 think what I heard Jennifer was that they did a little
24 bit of cherry picking.

25 MALE PARTICIPANT: Yes, that they didn't

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 run every single one.

2 (Crosstalk)

3 MALE PARTICIPANT: Which is all the
4 different source terms that have been run over time.
5 And they cherry picked the one that was the single
6 reactor, the one that was --

7 MALE PARTICIPANT: They were asking on the
8 Tokyo plausible, this one right here, they wanted
9 these yesterday. They wanted these broken up reactor
10 by reactor. And they were rerunning those last night.

11 (Crosstalk)

12 MALE PARTICIPANT: So these three is this
13 (inaudible), this is an updated version that's
14 modified. And that is the update so that is the
15 (inaudible) released over three days (inaudible)
16 meteorology with the wind going all sorts of different
17 directions. But just the reactors, (inaudible) the
18 three reactors.

19 MALE PARTICIPANT: You did iodine on the
20 spent fuel but it's had a chance to go through several
21 (inaudible).

22 MALE PARTICIPANT: Okay?

23 MALE PARTICIPANT: All right, very good.
24 We're off.

25 MALE PARTICIPANT: Thank you, sir.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Thank you.
2
3
4
5
6

7 2 minutes

8 MALE PARTICIPANT: I'm looking here, okay,
9 so I understand Unit 1, when they start getting
10 unusual rise in pressure in their containment vessel
11 (phonetic), there's going to have to be onset of core
12 melt.

13 (Crosstalk)

14 MALE PARTICIPANT: One of the things I
15 have to tell you, I'm not the reactor guy.

16 MALE PARTICIPANT: Right, but I'm looking
17 here like the inability to check water and then a rise
18 in pressure, and then okay, so it's about 14 hours
19 between the rise in pressure and the explosion, the
20 venting. You know, it's all (inaudible).

21 And then for Unit 2, it rises in pressure
22 at 2250 on the 14th, and they get the explosion
23 venting and the explosion was about eight hours there.

24 And Unit 3 was at 7:40 (phonetic) they get the
25 occurrent (phonetic), can't inject water.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 happened since they started injecting fresh water.

2 MALE PARTICIPANT: Yes. So may be some
3 cooling effect that we're seeing. That's my --

4 MALE PARTICIPANT: Kind of hard to believe
5 that fresh water would be cooler than the sea water.

6 MALE PARTICIPANT: The path for change
7 (phonetic) 2 for the fresh water, I don't know. I
8 don't know what it is. But it's such as the noted
9 decrease. But there's still a high temperature's in
10 Unit 1 that's measured by their bottom end
11 (inaudible). Most temperatures are higher than 2 and
12 3 of course. Of course we always suspect the
13 instrumentation that we have.

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1

2

3

4

5

6

7

8 minutes

8

MALE PARTICIPANT: They're being asked as

9

to what will be indications of success. You know,

10

what are the milestones that they should expect.

11

12

13

14

15

(b)(5)

16

17

18

19

20

21

MALE PARTICIPANT: So this is just the

22

Unit 1.

23

MALE PARTICIPANT: Yes, I just wanted to

24

show you the format of the assessment. Here's the

25

assessment. We're developing this format. John

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 Monninger's going to do a macro level same thing for
2 each of the Units.

3 MALE PARTICIPANT: So it'll be a one-pager
4 for each unit.

5 MALE PARTICIPANT: Probably at least no
6 more than one page on a macro. Real high level, and
7 it's just a tool.

8 MALE PARTICIPANT: You know, what they're
9 going to have to do is develop procedures from this,
10 right?

11 MALE PARTICIPANT: TEPCO? I would assume
12 they have procedures in their emergency operating, is
13 this all assumption.

14 MALE PARTICIPANT: Well, I mean there's
15 some specifics. I mean this gives you the strategies
16 but you still need to have the procedures. You know,
17 my fear is that somebody's going to raise, fire, aim
18 and is going to say, okay --

19 MALE PARTICIPANT: Where's the procedures?

20 MALE PARTICIPANT: In containment. And
21 they're going to direct the operators to vent the
22 containment and they're going to create some
23 unintended -- they ought to do the 50/59 review level,
24 you know, for unintended consequences.

25 MALE PARTICIPANT: We've had this

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

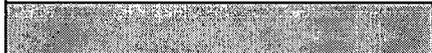
1 discussion as, you know, yesterday with precautions
2 that we're putting in there, considerations from
3 everyone.

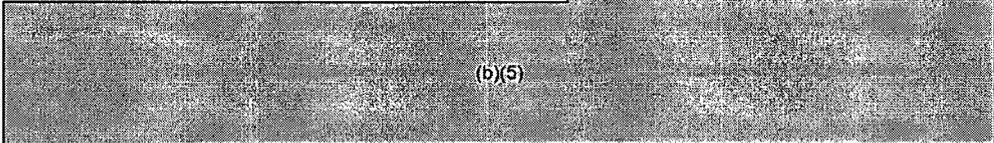
4 It's the people on the ground that have to
5 make those decisions. They have that information.
6 You know, purge containment -- well, is the purge line
7 even there?

8 You know, they get this nitrogen
9 (inaudible), how are you going to put it into the
10 drywell? Where's the pipe? It's in the reactor
11 building. How do you get to the reactor building?

12 So I mean they've got some people on the
13 ground that have to make decisions. I mean we have
14 those recommendations but --

15 (Crosstalk)

16 MALE PARTICIPANT: 

17 
18 (b)(5)

19  if I look at the three-liner here in the
20 intro, you know, it says our assessments and
21 recommendations are based on the best available
22 technical information.

23 And it should be, you know, sites specific
24 procedures should, you know, this document should be
25 used to develop site specific procedures for

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 implementation.

2 MALE PARTICIPANT: Okay, I can have that
3 discussion with the team. I'm very, very reluctant to
4 change any words on that document. The team's already
5 called and asked us, which the hell version do we
6 have? What's the latest version.

7 MALE PARTICIPANT: 2100, 3:26. That's it.
8 We're not going to change that.

9 MALE PARTICIPANT: All right?

10 MALE PARTICIPANT: So we're going to work
11 on getting that done.

12 MALE PARTICIPANT: We're working on
13 getting that done. (b)(5)

14 interesting questions for further work on getting
15 fresh water. How much fresh water's needed if we
16 flood all the containments.

17 MALE PARTICIPANT: The (inaudible) work on
18 that?

19 MALE PARTICIPANT: (Inaudible), how do you
20 transport seven million gallons of water, those kind
21 of things.

22 MALE PARTICIPANT: There's a logistics
23 strain in trying to be ready in case the Japanese ask
24 for more water. The Navy's asking for preliminary
25 planning at (inaudible).

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 They usually get back to this, what is the
2 magnitude. The hard one is how much water do you
3 think has to (inaudible) the leakage, and we have no
4 idea.

5 MALE PARTICIPANT: Say three million
6 gallons?

7 MALE PARTICIPANT: Well, that's per unit,
8 water. But they're going back and refining that but
9 that's the initial guesstimate. Two to three million
10 gallons per reactor, you've got three reactors plus
11 the fourth. No, you don't have a fourth. Just the
12 three reactors.

13 MALE PARTICIPANT: Well, I heard one and a
14 half (inaudible) gallons.

15 MALE PARTICIPANT: Well, we'll get the
16 precise but it's in the millions obviously.

17 MALE PARTICIPANT: And the other thing,
18 (inaudible) have they thought through, they're going
19 to flood, they flood up 3 and you're going to increase
20 the driving head (phonetic) probably on what's ever
21 (inaudible) using the turbine building in transporting
22 a (inaudible) product.

23 (Crosstalk)

24 MALE PARTICIPANT: Is the pathway to the
25 terminal building --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 MALE PARTICIPANT: Don't know what the
2 pathway is obviously. It could be a multitude of
3 things. We brainstormed yesterday, we came up with a
4 dozen pathways. We don't know what it is.

5 As they flood out the containment, the
6 pathway is into the reactor building. Flood up the
7 reactor building then the pathway (inaudible), yes, it
8 is. (Inaudible) pathway from the reactor building to
9 the terminal building. How high up is the elevation?

10 And the lower elevation is down around the
11 (inaudible). I don't believe there is a pathway, at
12 least a simple pathway to the terminal building if
13 they're constructed like ours, the reactor buildings.

14 The first two lower elevations --

15 MALE PARTICIPANT: (Inaudible).

16 MALE PARTICIPANT: That's correct. We
17 don't know that and we probably won't for months.

18 MALE PARTICIPANT: Do they know where the
19 (inaudible)?

20 MALE PARTICIPANT: Storm (phonetic)
21 building 3 they're down in the basement trying to run
22 some cabling is what we heard. But yes, there's water
23 everywhere.

24 MALE PARTICIPANT: Yes, would be now.

25 MALE PARTICIPANT: All right, that's all I

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 got.

2 MALE PARTICIPANT: We got feedback from
3 Mike Scott. The question that went to Mike on this
4 was NR heard from someone who heard from someone who
5 heard, et cetera, that people at the Village were
6 working on the Daini issues as well.

7 The feedback we got from Mike was, from
8 Mike, we understand that all units are in cold
9 shutdown, on offsite power and being adequately cooled
10 by normal means.

11 MALE PARTICIPANT: They can shut down for
12 two weeks.

13 MALE PARTICIPANT: It does not appear that
14 there's a big driver out there. Would you like me to
15 forward that, Steve?

16 MALE PARTICIPANT: Yes, please.

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED) 12 minutes

MR. DYER: Good morning, everyone. This is Jim Dyer, the day shift ET director. Let me go through the overall status, the activities. Just the three units remain essentially the same.

Fresh water's being injected into Units 1, 2 and 3, and we really believe that has been coming out through the reactor recirc pump seals and going into the containment.

The water, with respect to water in the turbine building that was found in Units 1, 2 and 3, Unit 1 would be watered yesterday. Unit 2 they were doing samples to find out the nature of the water.

We haven't heard any results back on those samples. And then of course, you know, Unit 3 is contaminated with fission (phonetic) products. Power remains the same. It is the control room, the lights are on but the ventilation has not yet been restored.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 And there was an update last night, I'm
2 not sure if you're aware of it, but METI issued an
3 update that (inaudible) to the contaminated workers of
4 Thursday night were, there's somehow between 200 and
5 600 rem (phonetic) skin dose.

6 With respect to the one train of the
7 (b)(4) pumping system is being deployed to the site
8 and one of the barges has been reported to be at the
9 front of the harbor.

10 It's not clear yet whether they've
11 verified the harbor is clear of debris from the
12 tsunami to get it to the actual site yet.

13 The Japanese request for shielding and
14 robotics logistically, I think the one clarification
15 we've got is what they really want of this shielding
16 is for a structure to basically encase the reactor
17 building and wherever the dose is.

18 It's not temporary shielding or lead to go
19 in and reduce the dose, in the common terminology here
20 in the United States.

21 With respect to the Reactor Safety Team,
22 one of the key focus items today is yesterday on swing
23 shift, the working group level completed the reviews
24 of the Reactor Safety Team strategies, severe accident
25 management strategies.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 But the request came back from the
2 ambassador, they want the high level sign off from, by
3 all the participating parties. Right now there's a 9
4 o'clock call that's going to go on to get that
5 preliminarily.

6 Most of the parties are willing to quote
7 "sign off" or endorse it. At a high level there is
8 some discussions going on with (b)(5) and that's
9 it.

10 The other thing is that Chuck Casto and
11 John Monninger traveled to J-Village yesterday or --
12 yes. And I mean it's basically a recovery development
13 site. They didn't see any need that they needed to
14 relocate staff there.

15 Naval Reactors also accompanied on the
16 visit and they overheard there's a lot of activity
17 going on with Daini site. And they raised questions
18 as whether there was problems at Daini site.

19 We contacted Mike Scott at the Japan site
20 and he confirmed all four units at Daini are in cold
21 shutdown, so we don't believe there's a problem going
22 on at the Daini site.

23 I believe yesterday you heard that the
24 (b)(5) of U.S.
25 spent fuel storage.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealgross.com

(202) 234-4433

1 That paper has been drafted. We're
2 anticipating getting it completed today and delivered
3 (b)(5) afternoon, and we will
4 (inaudible) the commission on the product that we send
5 downtown.

6 And then lastly, the issue -- well, not
7 last. The issue on the protective measure team is
8 responding (b)(5) on a discrepancy
9 on the source term used by the NRC.

10 And it had to do with the releases in the
11 modeling, the RASCAL modeling for Unit 3 were
12 substantially below the releases for Units 1 and 2.

13 And when we looked into the modeling, it
14 is because for Unit 3 they gave credit to essentially
15 24 hours of hold up after the fuel melt before the
16 release started.

17 And what we're doing now is going back
18 through and verifying the sequence to make sure that
19 that's consistent with the best information from the
20 Reactor Safety Team on the sequence of events at each
21 of the three reactors, and that there's not a
22 (inaudible) where's there's a modeling set up
23 challenge in that.

24 And then lastly, the chairman is currently
25 in the air flying to Japan and plans to return

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (b)(5)

2
3
4 That completes the presentation.

5 Questions?

6 PAT: (Inaudible) there was a report that
7 the chairman sent a recommendation to the ambassador
8 regarding flooding containment. Is this part of the
9 severe accident mitigation recommendations?

10 MR. DYER: That is the key aspect of the
11 severe accident mitigation. Yes, yesterday afternoon
12 there was a flurry of activity right at the end of my
13 watch if you would, the day shift and that.

14 And the activity was that whether or not
15 at the highest level of the agency they agreed with
16 the concept on priorities. And the question was
17 flooding up the containments as a severe accident
18 management strategy.

19 And the chairman forwarded a, we worked
20 through the concurrence, and with Chuck Casto is that,
21 yes, that is the highest priority is flooding up the
22 containments.

23 And then the one concern would be the
24 potential for hydrogen ignition in the Unit 1
25 containment.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 PAT: Okay. But I guess in a way the
2 containments are being flooded because the water's
3 going out through the recirc pump seals.

4 MR. DYER: That is correct.

5 PAT: The commission officers haven't seen
6 a copy of that. We were left with the understanding
7 that a copy of those recommendations were going to be
8 provided to the commission officers and they haven't
9 come yet. Can we get copies of those, please?

10 MR. DYER: As soon as we get them
11 finalized. I thought they were finalized last night
12 and then came this request to have them go through
13 another layer of management in each of the
14 participating organizations.

15 So that's why the 9 o'clock call is going
16 on with the Reactor Safety Team. And if it's
17 finalized then we'll get them up to the chairman's
18 office.

19 PAT: Okay, thank you. Next question I
20 have is, it says the Unit 1, in the Sitrep it says the
21 Unit 1 reactor pressure vessel, pressure is at 65.7
22 psia and it says it's an increasing trend. Do we know
23 how fast it's going up?

24 MR. DYER: The reactor vessel pressure?
25 No, I don't have the details on that, Pat.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 PAT: Okay. All right, thank you. Let's
2 see, I'll hold it for right now, thanks.

3 MR. DYER: Okay. Another question?

4 MIKE: Jim, it's Mike (inaudible). I've
5 got one more question for you. Since you noted the
6 chairman was headed over to Japan, did he delegate his
7 authorities to a commissioner?

8 MR. DYER: He delegated the emergency
9 powers to the EDO. I saw a letter this morning when I
10 was going through my email. Delegated emergency
11 powers to EDO and Commissioner Mag (phonetic) was
12 running the commission meeting.

13 MIKE: Okay, great. Thank you.

14 MR. DYER: Anything else? Okay, thank you
15 very much.

16 MALE PARTICIPANT: Have a good day.

17 MR. DYER: Take care. Any other
18 questions?

19 MR. KRAVICH: Good morning, Jim. This is
20 Mike Kravich (phonetic).

21 MR. DYER: Yes, Mike?

22 MR. KRAVICH: I have a question about the
23 strategy since you're going into a 9 o'clock call,
24 this accident and management strategy. And it's not
25 clear to me that flooding the containment, that's not

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 clear to me about the strategy there.

2 If there is damage to the torres
3 (phonetic) and maybe the drywell itself, wouldn't
4 flooding the containment simply be leeching out
5 whatever damaged fuel and fission products that are in
6 there into the basement of the turbine buildings and
7 out to the environment?

8 MR. DYER: Well, yes, and that's one of
9 the considerations. Like I said that has been
10 discussed in the papers and with Pat Hiland and the
11 Reactor Safety Team.

12 MR. KRAVICH: Okay, we'll wait to see the
13 actual announcements. But the other thing that I'm
14 kind of curious about is if we do have recirculation
15 pump seal leakage is there an assumption that when
16 power is restored that the isolation valves cannot be
17 closed for the pump?

18 MR. DYER: You know, I don't know.

19 MR. KRAVICH: That's all I've got this
20 morning, thank you.

21 MR. DYER: Okay.

22 ELIOT: Hey, Jim, it's Eliot.

23 MR. DYER: Yes, sir.

24 ELIOT: When that white paper has been
25 chopped in all the requisite places, can I get a copy?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. DYER: This is the white paper on the
2 safety of spending pure (phonetic) fuel?

3 ELIOT: Spent fuel, yes, sir.

4 MR. DYER: Okay.

5 (Conference call concluded)

6

7

8

9 (CONFERENCE CALL INITIATED) 34 minutes

10 MALE PARTICIPANT: Hello, Chuck?

11 MALE PARTICIPANT: Chuck, you there?

12 MR. CASTO: Yes, I'm here. Good morning.

13 MALE PARTICIPANT: Good morning, how are
14 you?

15 MR. CASTO: Good.

16 MALE PARTICIPANT: This is (inaudible) and
17 Jim Dyer is the ET director.

18 MR. CASTO: Good morning.

19 MALE PARTICIPANT: He stepped out a minute
20 but he'll be right back.

21 MR. CASTO: Okay.

22 MALE PARTICIPANT: In fact, he's on his
23 way even as we speak.

24 MR. CASTO: All right. Awesome.

25 MR. DYER: Who's this?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Chuck.

2 MR. DYER: Good morning, Chuck.

3 MR. CASTO: Good morning, James. How are
4 you doing, Jim?

5 MR. DYER: All right. How are you?

6 MR. CASTO: Do you want a little update
7 from the cabinet meeting?

8 MR. DYER: Yes, you got out early today.

9 MR. CASTO: Yes, it was rather efficient.
10 I think Sunday night everybody wanted to get out of
11 there, but we got all the points made. Let's see, not
12 much change in the unit status.

13 Unit 2 spent fuel pool, changed that over
14 from sea water to fresh water for the spent fuel pool.

15 MR. DYER: Now are they filling that
16 episodically or is it constant feed and bleed?

17 MR. CASTO: Episodically. It's three
18 hours a day for Unit 3 and 4. They're trying to
19 switch over the injection to the, all the reactors
20 from fire protection to, from a fire truck to a normal
21 pumping system, which I believe is probably like
22 condensate transfer system, from the CST.

23 They brought the one diesel generator in
24 and they're going to bring in some more to power the
25 electrical, you know, the motors for some condensate

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 transfer pumps.

2 So they're going to try to switch over,
3 you know, over the next few days switch over to get
4 the fire trucks out.

5 MR. DYER: On which, on all the units?

6 MR. CASTO: Yes, the way they indicated it
7 would be on all the units. Try to get them over to an
8 electrical motor instead of a fire truck..

9 MR. DYER: Okay.

10 MR. CASTO: With a diesel. And the
11 turbine building, the water in Unit 1, in all three
12 units, 1, 2, 3 and 4, what I got was, you know, high
13 contamination levels, high radiation levels.

14 In Unit 1, last night they told us they
15 had dewatered Unit 1 basement over to a tank in the
16 condenser bay.

17 Tonight they said that they didn't --
18 well, there was still water coming into Unit 1, but
19 they said we still have space in the condenser to put
20 the water if we need to.

21 But I think they're coming to the
22 conclusion that we came to long ago, they're going to
23 need a lot of place to put water. You know, you've
24 got all the sea water in those containments that will
25 eventually have to be switched over in all of those

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 reactors.

2 You know, the plant's full of water, so
3 and it's all highly contaminated, highly radioactive.

4 All that's going to have to go somewhere. So, you
5 know, tonight was the first night they'd talked about,
6 we're going to have to dispose of a lot of water.

7 Let's see, and they said on Units 2, 3 and
8 4 and a turbine building, they're studying where they
9 can pump that water to.

10 They talked about the detection of the sea
11 water trend, and concentration of iodine, you know,
12 out at the ocean, and that concentration continues to
13 increase, and they're going to watch it.

14 The water in the Unit 2 turbine building
15 that was reported today in the media sources is ten
16 million times the limit. They said that was a
17 counting error for iodine 134, and it was only 100,000
18 times the limit, not of ten million times the limit.

19 So of course, 100,000 times the limit
20 isn't much better than ten million times. And they're
21 trying to figure out why, because the day before they
22 had reported it was a 1,000 times more and today it's
23 100,000 times.

24 So they're trying to understand, said
25 we're doing a tough study on this, where it is and how

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 to collect it.

2 MR. DYER: You say this is the Unit 2
3 turbine building?

4 MR. CASTO: Yes, the Unit 2 turbine
5 building. The Atomic Energy Commission is trying to
6 assess that. So they're trying to understand why the
7 number seems to be going up and, you know, why is it
8 100,000 times what RCS water should be.

9 We'd heard today that there was in the
10 Unit 2 control room, there was one sievert per hour
11 radiation dose, so we asked them about that and they
12 basically said it's been that way. It's nothing new.

13 (b)(5)

14
15 think in that meeting that there was fuel damage in
16 Unit 2.

17 They talked about the length of time that
18 Unit 2 -- he said, I want to be frank. Unit 2 on
19 March 15, the time period was many hours without
20 water, where water injection was not possible.

21 A similar extent for Units 1 and 3,
22 however shorter. They had trouble with the fuel
23 supply running out, which I think the diesel generator
24 fuel supply.

25 He was feeling like three hours of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 difficulty continued and then he admitted that they'd
2 had possible fuel damage. And he asked my assessment
3 of that, and I said well, we agree that Unit 2 has
4 fuel damage and Unit 1 and 3 has fuel damage but to a
5 lesser amount.

6 And we also believe that Unit 2
7 containment is breached and likely Unit 3 containment
8 is breached. And, you know, they acknowledged that.
9 They didn't admit it or anything, they just kind of
10 acknowledged it.

11 So I think that was it on plant status.

12 MR. DYER: Hey, Chuck?

13 MR. CASTO: Yes.

14 MR. DYER: But you also said the turbine
15 building in Unit 1 was highly contaminated?

16 MR. CASTO: Yes.

17 MR. DYER: So would that be from the spent
18 fuel pool or do they have a, does that lead you to a
19 containment breach in Unit 1, too?

20 MR. CASTO: Yes, I don't think we know the
21 source. We don't have any isotopic analysis of the
22 source for Unit 1. That's a good question. I'll try
23 to pursue that.

24 Let's see, I think that was all for the,
25 they went through a long dissertation on the working

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 groups, the three working groups. And the shielding
2 and remote control working group, they thanked the NRC
3 for the three-hour meeting on that.

4 It says, you know, we now understand the
5 structural assessment for the spent fuel pools being
6 exposed to high heat and temperature. We now know
7 that that's a challenge.

8 (b)(5)

9 the challenge they have
10 with the structural integrity. Shielding, they were
11 given 12 ideas from general contractors on how to
12 shield the building.

13 They talked about covering the building
14 with a giant sheet or spraying special materials to
15 prevent dust or a material called zeolite, which
16 absorbs cesium.

17 (b)(5)

18 they said we're
19 going to decide tomorrow on what strategy to go.

20 They talked about spent fuel handling, UAV
21 cameras, heavy machinery to conduct sampling, and they
22 said they had one request and that's a heat exchanger
23 that can be injected into the spent fuel pool.

24 And they gave us a commercial heat
25 exchanger that they were interested in finding. They
had this, I don't know, it was some kind of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 advertisement or something they gave us on a heat
2 exchanger they can drop down into the pool.

3 So we told them we'd see if we could find
4 out where that thing's at. We talked to them about
5 tungsten shielding.

6 There was a long discussion about
7 radiological medicine, environmental modeling, KI
8 implementation and risk communications, and the use of
9 Dr. Coleman from USAID or one of those alphabet soup
10 agencies, he's here, and provided them some
11 assistance.

12 We talked about resources from the
13 tsunami. We talked a little bit about the chairman's
14 visit. And we talked about the improvement in
15 dialogue between the NRC, NISA and TEPCO, and our
16 better alignment on how to approach containment
17 flooding.

18 I think that was pretty much the extent
19 of, I think I told you, did I say or did I miss, I
20 wasn't listening to myself, so did I talk about loose
21 sources from the tsunami?

22 We talked about, you know, do you guys
23 have any loose sources out there from the tsunami?
24 They said they had 49 high strength sources and
25 they've confirmed all of those.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 They have 620 smaller sources and they're
2 trying to confirm the 620. They said many of those
3 smaller companies were washed away in the tsunami.

4 Let's see, and then John Monninger,
5 Admiral Rhoden, Troy Mueller, Don Kelso (phonetic) and
6 I took a helicopter up to J-Village today. It was an
7 interesting trip.

8 The J-Village is primarily a way station,
9 so in the end there's command and control up there for
10 the event. It's merely a way station for workers.

11 We got a little bit out of it by
12 interviewing workers who had just left the site, and
13 we actually ran into a resident inspector who was
14 rotating out of the site, so we spent a lot of time
15 with him.

16 Conditions up at the site are horrible as
17 you might imagine. They rotate up there for four days
18 at a time. They work probably 18-hour days.

19 He said they start like at 8:00 in the
20 morning and work until 9:00 at night, sometimes they
21 get called out a little later than that. They get a
22 biscuit in the morning and an MRE at night. They
23 sleep on the floor with a blanket.

24 And we talked to the inspector about, you
25 know, what do you do all day? And he said he observes

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 from the command and control center, occasionally goes
2 out on a job, spends a lot of time in the command and
3 control center.

4 And then I asked him, you know, okay, you
5 were gone for four days. What was your dose? And I
6 think it was 0.837 microsieverts, something like that.

7 MR. DYER: Microsieverts, yes?

8 MR. CASTO: Yes, I think it was
9 microsieverts, would that sound right? What would
10 that be? It's a factor of a hundred, right?

11 MR. DYER: Yes. So it'd be 83, 85
12 microrem? No, yes.

13 MR. CASTO: Maybe it was millisieverts.
14 What would millisieverts be, 8, 0.837.

15 MR. DYER: If it was millisieverts, 0.837
16 would be about 90 millirem.

17 MR. CASTO: It's got to be at least that.

18 MR. DYER: But I would think, I'd figure
19 it would be, I think it'd be doses around that place,
20 you know.

21 MR. CASTO: Yes, I'll have to go back and
22 look at my notes. I didn't bring them with me, I
23 don't have my notes with me. I'll have to go back and
24 see what the dose rate, what unit he said those were
25 in.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 We talked to him a little bit about
2 strategy. I wanted to get a feel, does he understand
3 the big picture? You know, because he was mainly
4 watching jobs for exposures.

5 And but he did seem to have the big
6 picture with regard to, you know, the filling the
7 reactors up, pumping water into the reactors, that
8 kind of stuff. He seemed to kind of have the big
9 picture a little bit.

10 MR. DYER: Hey, Chuck?

11 MR. CASTO: Yes.

12 MR. DYER: One of the reports came from

13 (b)(5)

14
15 MR. DYER: Yes, and there was a question
16 that came out whether or not there was a problem at
17 the Daini site?

18 MR. CASTO: Yes. I don't think it was a
19 problem there. You know, we were shocked that the
20 bottom floor was for Dai-ichi, and they said the top
21 floor where the people were dressing out was for
22 Daini.

23 And we were like whoa, wait a minute.
24 What's going on there? But it's a cleanup project.
25 It's contaminated from the tsunami but the reactors

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 are fine.

2 They've got electrical power. They've got
3 spent fuel pool cooling, they've got shutdown cooling.

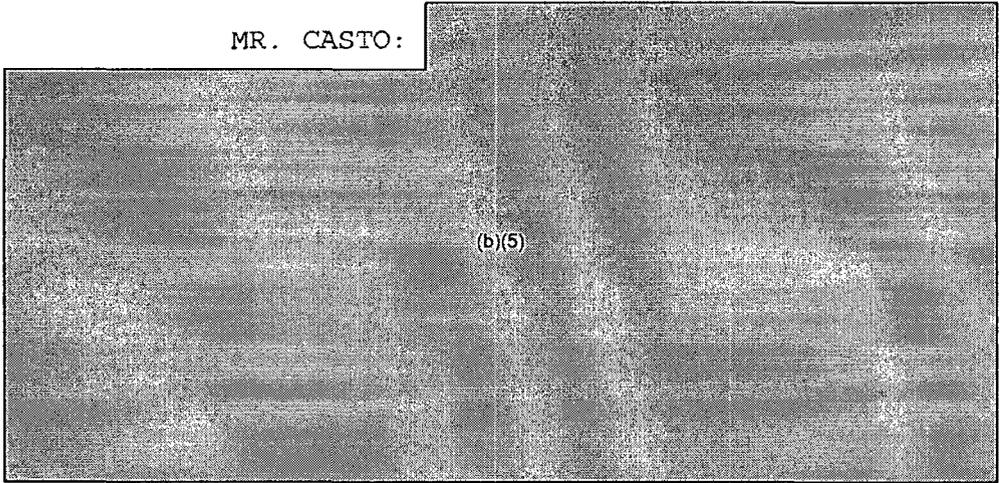
4 Everything is okay there from a reactor safety point
5 of view. They have a huge mess to clean up but it's
6 not a problem from reactor safety point of view.

7 MR. DYER: Good.

8 MR. CASTO: So that did shock us at first
9 and I know that it got a little confused once through
10  but there's not a reactor safety issue
11 there.

12 MR. DYER: Good.

13 MR. CASTO:

14 
15
16 (b)(5)
17
18
19

20 I think overall contamination control is
21 not ideal for that site, for J-Village. Given the
22 volume of people that, you know, they do the best they
23 can, but it's not ideal in terms of, you know.

24 They put people on a bus and they bus them
25 into the site and then the contaminated people come

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 out. Basically they keep the same four, you know,
2 Tyvek overalls on for four days unless they get
3 contaminated.

4 They bring them back there and they're
5 storing them at J-Village. They haven't decided on a
6 disposal method. They people undress and then they go
7 back to the rear area to shower.

8 And we just didn't think that
9 contamination control was what, you know, it wasn't
10 ideal. In fact I walked by one of the buses and it
11 was empty of people and my threshold of my DAD, my
12 digital alarming dosimeter was set very low, it went
13 off walking by the bus.

14 And then similarly, when we landed in the
15 soccer field everybody's DAD went off as soon as we
16 got down on the ground. The guys in the helicopter
17 took some soil samples, we had HP with us, took some
18 soil samples.

19 They got back in the helicopter, his shoes
20 were about 3,000 counts per second, you know,
21 somewhere around what, 100 to 300 is background. So
22 it was elevated.

23
24 (b)(5)
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

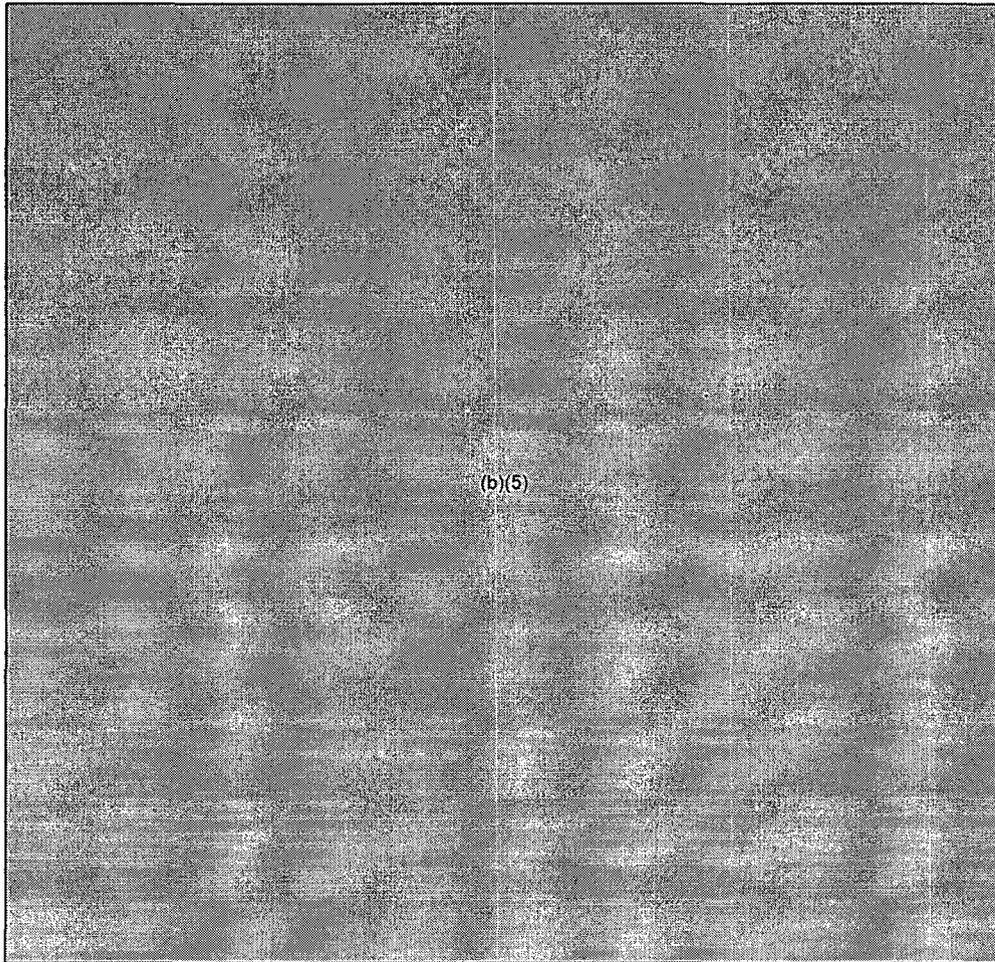
1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25



(b)(5)

We went out over the ocean, we found the barge, the freshwater barge. It was about eight miles south of the first city it's going to before it meets up with the other barge and goes into the Fukushima's plant.

We found it out in the ocean. The Japanese SDF Forces were towing it. I thought I'd find Bill Cook sitting on the front of it, he's been so tied up with that thing.

I think that was pretty much for the trip up there. It was definitely worth going to J-Village

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

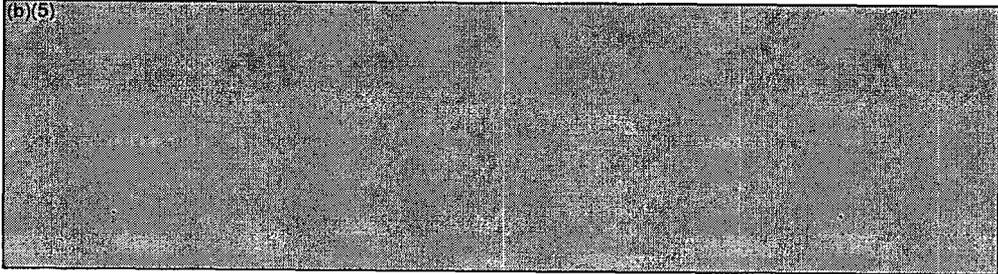
(202) 234-4433

www.nealrgross.com

1 just to find out we don't need to be there.

2 MR. DYER: Okay.

3 (b)(5)



4
5
6
7 command and control center.

8 I may end up making a trip up there, we're
9 talking about negotiating, you know, an hour and a
10 half, two-hour trip up there but just to talk to
11 command and control and look at the site, the Admiral
12 and I, but not to stay up there.

13 And they're not interested in us staying
14 up there either. They have, you know, people sleeping
15 on the floor and it's crowded.

16 Let's see if there's anything else. Of
17 course we prepare for the chairman's visit.

18 MR. DYER: Yes, I guess the chairman's due
19 in right now, pretty close?

20 MR. CASTO: No, not until tomorrow
21 morning. He's in at 9:30 tomorrow morning.

22 MR. DYER: 9:30 tomorrow, yes, I got it.

23 MR. CASTO: Yes, he's 12 hours away.

24 MR. DYER: Okay.

25 MR. CASTO: He's probably getting on a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

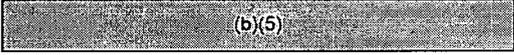
WASHINGTON, D.C. 20005-3701

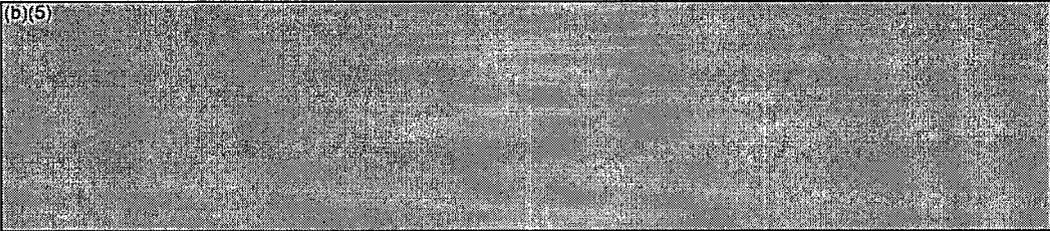
(202) 234-4433

www.nealgross.com

1 flight right now, which is a sad thought. You know,
2 it's a long flight.

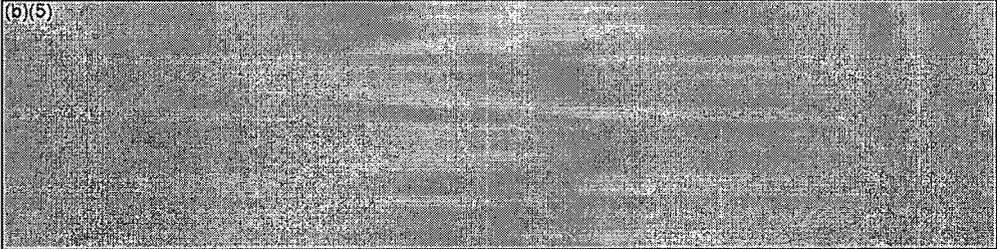
3 The only other sort of I guess thing
4 that's out there, the ambassador was supposed to take
5 I think it was some dose projections and health
6 information to  (b)(5)

7  (b)(5)

8  (b)(5)

9
10
11 that were a week old.

12 I think the assumptions and the
13 projections that we did were done last week. And then

14  (b)(5)

15
16
17
18 So I think they're going back and working
19 on an updated set of models. I wasn't plugged into
20 that too much. That is absolutely the extent of my
21 knowledge on that.

22 MR. DYER: And they're going back to DOE
23 on those?

24 MR. CASTO: Yes, they want to go back to
25 DOE. They reconvened that health working group and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 they're going to rerun the models or something. And
2 he wants more realistic models than what they had last
3 week.

4 Last week, you know, was I don't know, a
5 full reactor meltdown and one spent fuel pool or
6 something like that and we just don't think that's
7 much of a possibility right now.

8 So I think they're going back to revisit
9 the assumptions and rerun the models.

10 MR. DYER: Okay, that's good. You know,
11 we have an issue (b)(5)

12 some of the inputs of some of the runs we made and
13 there was a question about some of the assumptions on
14 the Unit 3 release that we ran with RASCAL.

15 MR. CASTO: Okay.

16 MR. DYER: It showed low contribution
17 because the release from the Unit 3, the modeling was,
18 they accredited that because the assumptions were that
19 there would be a delay of almost a day between the
20 time that the core melted and the time that the
21 containment failed, the second, you know, the release,
22 when the explosion occurred that started the release.

23 And the credit for hold up was very high
24 in that particular run, and I've asked the protective
25 manager's team, we need to get with the Reactor Safety

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Team and make sure we've got the right sequence and
2 timing of that and we've got the inputs into the
3 modeling correct.

4 MR. CASTO: Okay, yes. That makes sense
5 and we should be able to help you out with that.

6 MR. DYER: Well, we've got the timeline.
7 We just need to make sure that they were translated
8 properly into the RASCAL input.

9 MR. CASTO: Okay. Then the only other
10 thing that was kind of a rub today and it's been an
11 ongoing narrative since just last night, was the issue
12 about the Reactor Safety Team report and what format
13 that thing takes with regard to forwarding it to the
14 Japanese.

15
16 (b)(5)
17
18

19 And, you know, I've been basically telling

20 (b)(5)
21
22
23

24 MR. DYER: Yes, and we've been working
25 that here. In fact, Pat Hiland, the head of the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 Reactor Safety Team is on a conference call right now.

2 I mean we're willing to sign off
3 representing it as recommendations based on our best
4 understanding, but (b)(5) had some problems with
5 that and so they were having a followup call to make
6 sure that they can clear the air.

7 But I'm pushing that we need to get this
8 thing, you know, accurate to reflect who's on board,
9 who's off, and get that thing out on the day shift
10 today so it's ready for you when you come in tomorrow
11 morning.

12 MR. CASTO: Yes, that'd be great to get it
13 out, but whatever we can get, Jim.

14 (b)(5)
15
16
17
18
19

20 MR. DYER: Yes, I was ready to sign off as
21 the chief financial officer.

22 MR. CASTO: Well, I keep working my way
23 down the work chart, I'll be signing off as somebody
24 in the mailroom but, you know, I don't have a problem
25 with it.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

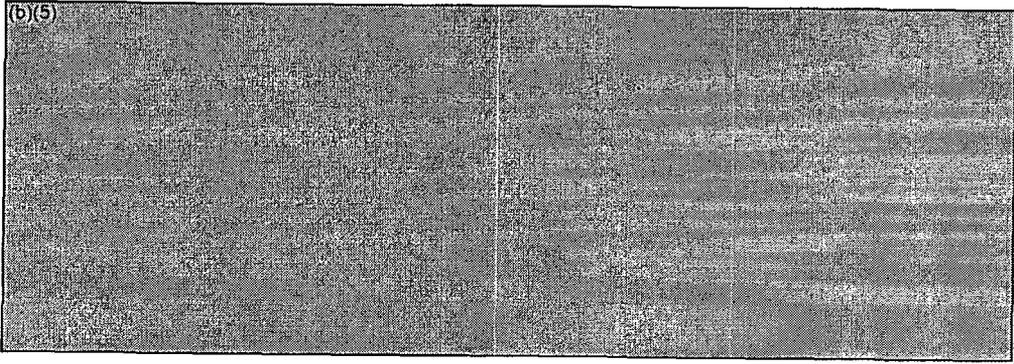
www.nealrgross.com

1 But also we know the chairman's briefed on
2 it and obviously they'll talk about it tomorrow.

3 MR. DYER: Yes.

4 MR. CASTO: And from what I heard from

5 (b)(5)



6
7
8
9
10 MR. DYER: Yes, they were taking it to the
11 next level. And like I said, it'll at least be the ET
12 director if once we get it finalized.

13 And we'll call up Borchardt and see if he
14 wants to elevate it to his level, and I'll talk to him
15 this morning.

16 MR. CASTO: All right, not a problem.
17 Otherwise I don't know everything that went on today
18 because I was out of the loop for a few hours, but I
19 think that's the highlights.

20 So usually the team rolls up bullet
21 points, you know, all day long and then I get them at
22 6:00 and 8 o'clock to run the meetings, the ambassador
23 meeting and then the cabinet meeting.

24 So I think I've pretty much covered
25 everything, all the big ticket items that happened

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 today.

2 MR. DYER: Okay. Well, let me, you know,
3 we're working the reactor strategy paper as you said,
4 and as also a part of that we understand you've got a
5 request for like a one-page per unit overview matrix,
6 and we're putting that together and, you know, just
7 making sure it's consistent and aligned with whatever
8 the final meeting.

9 Hopefully this final meeting is more of a
10 briefing of the principals than it is of any kind of a
11 working level at the (inaudible) on up in the
12 organization.

13 MR. CASTO: Right. But yes, that matrix
14 will help a lot. I told him yesterday I'd have it
15 tonight at 6:00, but we were so overwhelmed with
16 trying to get that report out which is understandable.

17 And then I had John, yesterday, Monninger,

18 (b)(5)

19
20
21 know, we talking days, weeks, months?

22 So I'm trying to come up with some
23 milestones of recovery, for instance, you know, spent
24 fuel pool cooling installed, or decay heat removal is
25 installed. You know, periodic venting is ended, you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 know, whatever the milestones are out there.

2 MR. DYER: Well, Chuck, it's my
3 understanding, I mean are they still looking at like
4 the three phases? I think originally I had heard they
5 were calling them mitigation, stabilization, recovery?

6 MR. CASTO: Right.

7 MR. DYER: Is that still the terminology
8 that's being used or are they, I mean --

9 MR. CASTO: Yes, that's TEPCO's
10 terminology. But there's not a lot of detail in that
11 plan.

12 MR. DYER: Yes, but I mean my view is that
13 we're still working on, right now we're still in the
14 first two.

15 MR. CASTO: Yes, but I think we're at the
16 end of the first phase, you know, nearing the end of
17 the first phase. And overlap, if you consider there's
18 an overlap then you're at the beginning of the second
19 phase.

20 MR. DYER: Okay, well, then that's kind of
21 consistent. I think if they flood up Unit 1 and they
22 get that flooded up, that's when I think I'd declare
23 victory on the mitigation.

24 MR. CASTO: Yes, that's where I'm at. I'm
25 thinking, you know, 2 and 3 are already flooded,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 likely, and if they flood Unit 1 then the immediate
2 event, the large fraction, the large early release
3 fraction is a low probability event.

4 MR. DYER: Right. Now hey, Chuck, the
5 other thing is a question I asked (inaudible) is
6 whether they've got enough at the site to do the
7 flooding up.

8 MR. CASTO: Yes, that's a good question.
9 I'll ask that tomorrow, because they barely have
10 enough -- as you know they need 2,800 tons a day just
11 to cool the reactors.

12 And they are getting, the original water
13 line was designed for a hundred tons an hour and it's
14 pushing right at 50 tons an hour. So they need that
15 pumping system from the barge to, you know, to satisfy
16 the need to feed the reactors.

17 MR. DYER: So the water from the
18 reservoir, the flow rate (inaudible) isn't going to be
19 sufficient to do any kind of flooding up?

20 MR. CASTO: No. And we knew that, you
21 know, that line is 32 years old, or it hasn't been
22 used in 32 years and, you know, we knew it. So they
23 were already talking about well, we're going to have
24 to put in a bypass line.

25 And by the way the lower tanks that it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 pumps to are full of mud and, you know, and we're
2 going to have to clean those tanks out. We knew that
3 line would be a mess.

4 So that's a good question. I need to ask
5 that tomorrow is, where do you expect to get the
6 capacity to flood up?

7 MR. DYER: Okay. I think just for your
8 information we're putting together a spent fuel safety
9 paper (b)(5) We had that request
10 this weekend. That won't involve you. It's more U.S.
11 plants. That's a (inaudible). Okay, let me ask,
12 Mike, anything?

13 MIKE: Oh, Chuck, any feedback on the
14 material support (b)(5)
15 embed in your team? Is there any (inaudible) of that
16 we need to respond to?

17 MR. CASTO: The only thing was these high
18 pressure hoses. I met with the Aussies, the U.K., and
19 somebody else today. The U.K, the Aussies, you know,
20 they call them the five Is.

21 U.K. and the Aussies, and I don't remember
22 who the other one was, another English-speaking
23 country.

24 And I was talking to the Aussies, and they
25 said, you know, we got this request for these high

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 quality fire hoses. And I said, well, they gave us
2 the same request.

3 So obviously they're giving the same
4 request to multiple countries. And so that's a little
5 inefficient.

6 I almost thought about, you know, sharing
7 that with the embassy and tell them to share with the
8 other embassies that, you know, these guys are
9 shopping around everywhere.

10 The water supply, I think they're going to
11 be able to solve that problem with bottled water. It
12 looks like Walmart, Costco and Coca-Cola are going to
13 take care of the bottled water supply needs.

14 They're moving forward on a million doses
15 of KI, 1.1 million doses of KI being donated. I think
16 the American government's declaring those excess and
17 then they're going to give them to the Japanese
18 government.

19 There's an issue with that because like a
20 bunch of them are, expire in two weeks. So we can't
21 give them the near the expired KI.

22 The only other thing, we gave them the
23 information on the tungsten shielding tonight, gave
24 them points of contact on the tungsten shielding.

25 Let me see, and the only other really

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 request they had was as I said earlier, the heat
2 exchanger that they inject into the spent fuel pool.
3 They asked us to chase that down.

4 Of course, they're still working on UAVs
5 and cameras, with fiberscope cameras, and heavy
6 machinery to conduct sampling of the spent fuel pool.

7 But I think DOE's working on all that for them.

8 MIKE: Thanks.

9 MR. DYER: Okay.

10 MR. CASTO: So that's final, Mike.

11 MIKE: Thanks, Chuck.

12 MR. DYER: Anything else we can do for
13 you, Chuck?

14 MR. CASTO: No, we're fine. Tomorrow's
15 going to be a busy day with the man here so we're
16 looking forward to his visit.

17 MR. DYER: Good. Pat, anything?

18 Okay, have a good weekend, or a good
19 Sunday night.

20 MR. CASTO: All right, thanks, Jim. Yes,
21 thanks, Jim, Pat, Tom, Mike, appreciate it. Talk to
22 you soon.

23 MR. DYER: Take care.

24 MR. CASTO: Good night.

25 (Conference call concluded)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED)

MR. DYER: Bill? Hey, Bill, this is Jim Dyer.

MR. BORCHARDT: Hi, Jim.

MR. DYER: Hey. Did you see, I don't know if you knew, we got a turnover that you were going to review this white paper (b)(5) response on spent fuel? Did you know that?

MR. BORCHARDT: No, I didn't, but I guess I do now.

MR. DYER: Yes, I sent you an email inquiry whether you knew it. I thought it was kind of strange.

I thought maybe Mike would do it, so I forwarded Josh's response to us when he reviewed it, and then which has the latest thinking now. Steve's

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 come back and said he has no legal objection, so we're
2 just waiting on the staff review of the proposal.

3 MR. BORCHARDT: Okay.

4 MR. DYER: And Marty had reviewed it last
5 shift but then somebody did some, didn't think they
6 changed the technical content but apparently they
7 rearranged paragraphs for readability.

8 And so it's not clear for me whether he
9 would still agree with it. And I figured he was
10 asleep so I thought maybe you'd volunteered to cover
11 for him.

12 MR. BORCHARDT: Well, but I can do it. I
13 have it electronically.

14 MR. DYER: Yes, you should have, probably
15 the most, Josh did a line in line out, I think,
16 recommendation.

17 (CONFERENCE CALL ENDED.)
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: I sent you an email. Inquiry, whether you know it, I thought it was kind of strange that I thought maybe Mike would do it, so I forwarded the, Josh's response to us when he reviewed it and then, which has the latest thinking.

Now Steve's come back and said he has no legal objection, so we're just waiting on the staff review of the proposal.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: And Marty had reviewed it last shift but then somebody did some, didn't change the, didn't think they changed the technical content, but apparently they rearranged paragraphs for readability and so it's not clear for me whether he would still agree with it. I figured he was asleep so

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3704

1 I thought maybe you volunteered to cover for him.

2 MALE PARTICIPANT: Well, but I can do it,
3 I have it electronically?

4 MALE PARTICIPANT: Yes, you should have,
5 the probably eh most, Josh did a line-in, line-out, I
6 think recommendation, which is the one that, or he
7 had.

8 MALE PARTICIPANT: He had comments.

9 MALE PARTICIPANT: Josh had some comments.

10 MALE PARTICIPANT: We haven't sent that
11 out yet.

12 MALE PARTICIPANT: I sent it.

13 MALE PARTICIPANT: Oh, there's comments.

14 MALE PARTICIPANT: Yes, I think I sent
15 them to Bill. I think I forwarded you , no, I didn't.
16 let me check something here. Yes, Josh cc'd you on
17 his comments, which Burns agreed with, so if you want
18 to be the reviewer, I forwarded it also to Mike Webber
19 and I haven't heard anything for him, either.

20 I didn't know if he was out of pocket
21 today or what.

22 MALE PARTICIPANT: Okay. Well I'll get on
23 my laptop and I'll look at it and then I'll send you
24 an email or give you a call.

25 MALE PARTICIPANT: Sounds great.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: All right?

2 MALE PARTICIPANT: Okay, thanks.

3 MALE PARTICIPANT: Sure. Bye.

4 MALE PARTICIPANT: Bye-bye.

5 (CONFERENCE CALL ENDED.)

6

7

8

9

10

11 (CONFERENCE CALL INITIATED)

12 MALE PARTICIPANT: Mr. Borchartd is coming
13 up onto the T Bridge.

14 JIM: Thank you.

15 MR. BORCHARDT: Hi, Jim.

16 JIM: Hey, Bill.

17 MR. BORCHARDT: Hey, just, I just read it.

18 I think the version that you sent in the last email
19 was the ones with Josh's changes?

20 JIM: It didn't have, Josh had sent you
21 comments, I can send Josh's comments.

22 MR. BORCHARDT: I saw those, too.

23 JIM: Okay.

24 MR. BORCHARDT: I mean based on the like,
25 reasonable ideas, but if there's really a rush, I

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 think it's fine the way it is.

2 JIM: Okay.

3 MR. BORCHARDT: No, I didn't see anything
4 that was misleading or inaccurate in it and I think it
5 had all the points. If we had time, it would be, I
6 wouldn't object to making Josh's recommendations or
7 making the changes he recommends, but he's just moving
8 stuff around, for the most part, not really.

9 JIM: Yes. I haven't seen the results,
10 but I think the comment three about written in cleaner
11 English, plainer English.

12 MR. BORCHARDT: Well, yes, but it's, I
13 mean, I think it's fine.

14 JIM: Okay.

15 MR. BORCHARDT: I mean, I saw one of the
16 emails in the train said they wanted it by noontime,
17 right? So.

18 JIM: Yes, well I think when Mike called
19 in yesterday on days, they wanted it by COB today, so
20 we were clear in the end of day shift when we
21 originally started talking, but I think that was to
22 get it in play with a little bit of time to spare.

23 So we'll clean it up and send it out.

24 MR. BORCHARDT: Yes. I think it's pretty
25 good, actually.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JIM: Okie-doke?

2 MR. BORCHARDT: Yes, thank you.

3 JIM: Hey, thank you.

4 MR. BORCHARDT: Thanks for the call. Yes,
5 bye.

6 JIM: Yes, and I knew you weren't out
7 playing golf.

8 MR. BORCHARDT: No, unfortunately I'm

9 (b)(6)

10

11 JIM: All right.

12 MR. BORCHARDT: So I actually appreciate
13 the interruption.

14 JIM: Take care.

15 MR. BORCHARDT: All right, I'll talk to
16 you later.

17 JIM: Bye-bye.

18 MALE PARTICIPANT: Okay, so it sounds like

19 --

20 (CONFERENCE CALL ENDED.)

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED)

DR. BRIAN SHERON: Good evening. Hi, this is Brian Sheron, I'm the CC Director for the evening, so give you a quick update on what's going on. They've got freshwater injection now going to units 1,2 and 3. And we're not sure, but we think that's helping to flood up the containments.

We think they are flooded up primarily because the reserve (phonetic) pump shields (phonetic) are leaking, which means they'd be leaking into the drywell and eventually would flood up in the drywell.

The portable emergency (inaudible) generators have arrived on-site and they're working on temporary cabling over to (inaudible) pumps.

They've got water in the lower level of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

1 the turbine building of unites 2 and 3. Water at Unit
2 1 was pumped into a tank in the (inaudible) building.

3 They've got significant contamination in
4 the Unit 2 and Unit 3 (inaudible). I think from the
5 radiological analysis, it was determined to have come
6 from the cores.

7 So there is material from the core finding
8 its way down into the lower elevations in the pump
9 area.

10 One train of that Bechtel pumping system
11 has, well, it's being deployed to the site. We
12 understand that there may be some additional training
13 that the Japanese still need from (b)(4) in terms of
14 hooking it up and getting it operational.

15 One freshwater barge was delivered by the
16 Navy and I guess it's on its way to the site, still.
17 The plan right now is that we're going to bring it in
18 and hook it up to the plant and then we're going to
19 bring it, as additional barges came in with additional
20 freshwater, rather than switch out the barges, I think
21 they were going to take the water from the subsequent
22 incoming barges and pump it into the one that's
23 permanently hooked up and that'll provide a better
24 source of freshwater to cool the reactors.

25 The Japanese government, we understand

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 it's request that (inaudible) with shielding, removal
2 of spent fuel and robotics. We're hoping, I think,
3 that the industry team, coordination team, will work
4 to provide that.

5 I think, you know, I think our assessment
6 is that just primarily, we're there for (inaudible).

7 (Inaudible) we understand contracted with
8 the Shaw Company to help them design and bring in a
9 decay (phonetic) removal system as well as debris
10 removal.

11 We had a request to send in
12 recommendations regarding severe accident management
13 strategy to the NRC team in Japan. Last night, Bill
14 Ruland spent a fair amount of time trying to get
15 agreement among (b)(5) (inaudible)

16 (b)(5)
17 (b)(5)

18 But that information was provided to the
19 site teams. However, just, you know, in response to a
20 request from the ambassador in Japan, management from
21 the contributing U.S. organizations for this severe
22 accident management strategy paper, he wanted to make
23 sure that the highest levels in the management chain
24 of those organizations concurred and that it wasn't
25 done at the staff level.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 So we went back and we got, worked through
2 there and got the concurrences.

3 Chuck Casto, John Monninger traveled to
4 Jay (phonetic) village, which is about 13 kilometers
5 south of the site. And it's being used as the staging
6 area and also, I think, as a rest area for the plant
7 workers.

8 They didn't see any need for any NRC staff
9 to relocate there and so they're gonna remain, I
10 think, at Tokyo at the embassy.

11 (b)(5) yesterday,
12 requested a white paper on safety of U.S. spent fuel
13 storage both wet and dry.

14 That paper was prepared jointly by NOR and
15 Amamasis (phonetic) and was put together and was
16 transmitted (b)(5) today. I also believe
17 we're going to have copies sent to you, to the
18 commission offices sometimes I think in the near,
19 like in the next hour or so.

20 (b)(5)
21
22

23 what's been termed the Plausible Associate Scenario
24 (phonetic), which is, what is the likely radiological
25 doses that would be seen in Tokyo.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

(900) 221-4422

1 We responded to that and the relatively
2 small releases from Unit III that we assumed were due
3 to the assumed hold up period. So that's been
4 resolved.

5 The only other piece of news is that the
6 chairman, as you know, is traveling to Japan. He's
7 supposed to arrive at 9:30 Japan time, which is n
8 about 20 minutes.

9 Chuck Casto and his team put together an
10 agenda for the chairman. He's not staying long, I
11 believe he's coming back, he's leaving Tuesday.

12 But he's going to immediately after
13 checking in at the hotel, walk to the embassy and meet
14 with Ambassador Roos and the interagency team. He'll
15 visit the NRC staff room where the NRC staff has been
16 working.

17 He's then going to go over and meet with
18 cabinet office crisis management and, let's see, also,
19 let's see, which is the special advisor to the Prime
20 Minister of Japan.

21 So then (inaudible) and he's meeting with
22 the meeting minister, Bamreekayata (phonetic) it
23 looks like. Then they're going to walk to the NISA
24 offices and meet with the Nuclear and Industrial
25 Safety Administration or NISA, which is the regulator.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Then they're going to depart and go and
2 meet with TEPCO, with the TEPCO chairman. And then
3 they'll return to the hotel in the embassy car and
4 depart to the cabinet office in an embassy car and
5 meet with the cabinet office crisis management
6 meeting.

7 I think that pretty much fills his
8 schedule for that day and then he's coming back on
9 Tuesday.

10 The only other piece of news was that
11 Japan has confirmed that they've located 49 large
12 sources and they're now working locate the 620 smaller
13 sources. These are radioactive sources that would be
14 at places like hospitals and the like..

15 And that's about it. Neither the reactor
16 safety or the protective measures or liaison team have
17 anything to report, so I'm going to open up to
18 questions right now.

19 MR. FRANOVICH: Brian, this is Mike
20 Franovich.

21 DR. BRIAN SHERON: Hello, Mike.

22 MR. FRANOVICH: Good evening. Couple of
23 shifts ago, I think it was on Friday, we asked for a
24 copy of the preliminary recommendations on this
25 reacting (phonetic) management, the path forward. The

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 guidance that we were going to go toward a flood the
2 containment-type strategy and I realize there's been a
3 lot of dialogue the last few days with wanting some

4 (b)(5)

5
6 Now that we've gone through this and had
7 high level review, can we have a copy of that
8 (inaudible) and recommendations, management
9 recommendations come up with the summary or the white
10 paper for the safety of spent fuel pools and dry cast
11 storage? (b)(5) Can you

12 bundle those together and send those up this evening?

13 DR. BRIAN SHERON: Mike, this is Brian.
14 Josh has it and probably the best place for you guys
15 to get it real quick would be from Josh.

16 MR. FRANOVICH: Okay. Well we'll have to
17 get that from him, I guess tomorrow morning unless
18 he's on the line this evening. I didn't hear his
19 voice.

20 DR. BRIAN SHERON: No, he was in here
21 earlier today, but he's not now, so.

22 MR. FRANOVICH: Okay. I didn't have any
23 other questions so I'll ask Josh for it and hopefully
24 we see it tomorrow morning. I think the commissioner
25 would like to see what the recommendations are, the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 path forward. And then on this morning's call, I
2 noted, I had a question, there wasn't an answer to it,
3 I imagine because it's very difficult to answer.

4 But we talked about potential leakage
5 through the recirculation pumps in the seal packages
6 being failed because of that was (b)(4)
7 assessment.

8 DR. BRIAN SHERON: Right.

9 MR. FRANOVICH: And I had asked the
10 question, if power does become available again to the
11 isolation valve, for the pumps themselves, is it
12 possible to go ahead and isolate the pumps and then
13 just simply do a flood up of the pressure vessel
14 itself instead of the containment?

15 And there wasn't an answer, I don't know
16 if there's been any additional dialogue on that in the
17 0900 call that was held this morning with the RST and
18 folks?

19 MALE PARTICIPANT: It may not affect the
20 decision on flooding containment where there at in the
21 (inaudible), the flow paths in the (inaudible) would
22 have containment flood up.

23 And irrespective of isolation of the RCPs.
24 Of the, excuse me, of reserve pumps.

25 MR. FRANOVICH: Yes, I think that what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 (inaudible) looking at is if we do think there's a
2 breach in the Unit II containment, and possibly Unit
3 III, that the flood up strategy would appear to just
4 exacerbate the leakage at least into the groundwater
5 and into the environment if you're just simply filling
6 it up and it's draining off.

7 And I think that's how we got in that
8 conversation about the reserve pump isolation
9 approach, so that's the only thing I mentioned this
10 morning. I wanted to bring it to your attention as
11 well.

12 MALE PARTICIPANT: Okay. We can probably,
13 the next thing we'll be working on is at what point
14 protection of the reactor vessel has a lower priority
15 than the consideration of the containment integrity
16 for Units II and III.

17 So that'll be evolving as we interact with

18 (b)(5)

19 MR. FRANOVICH: Certainly, great. All
20 right, appreciate it. I don't have any further
21 questions.

22 MR. KAPPELMAN: This is Pat Kappelman
23 (phonetic) again. Do we have any further information
24 on radiation health effects? In reading the news,
25 they do talk about the three individuals who were in

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3704

www.nealrsgross.com

(202) 324-4422

1 Unit III, but then there's some other reports of
2 contamination of contamination and health effects and
3 so forth.

4 MALE PARTICIPANT: Yes, hang on a second.

5 Actually I've seen some statistics, I got to get on
6 my computer here. See if I can find it here real
7 quick. It says the IEA reported on the 26th of march,
8 which was yesterday, that a total of 17 TEPCO workers
9 and contractors have received doses between 100 and
10 180 millisieverts and TEPCO measured the dose rate of
11 400 millisieverts per hour above the surface of the
12 water in the Unit III turbine building where two
13 workers have been contaminated.

14 And the contaminated workers think, they
15 were estimated to have received between two and six
16 sieverts, which is a pretty hefty dose, but I think it
17 was probably beta. Because there was burns to just
18 their feet that were in the water.

19 But that's all we know in terms of any
20 radiological consequences to the workers.

21 MR. KAPPELMAN: Okay, thanks very much.

22 ZACK: Hey, Brian, this is Zack, was that
23 two to six sieverts of whole body dose or was that
24 just external skin dose?

25 DR. BRIAN SHERON: I'm sure it's skin

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 dose.

2 MALE PARTICIPANT: Yes. Yes.

3 MR. KAPPELMAN: This is Pat Kappelman
4 again. When you were doing the brief, you talked
5 about there were significant contamination in the
6 Units II and III sumps from the core. Which sumps are
7 you talking about? Are those sumps in inside
8 containment or are they in the turbine building or
9 where?

10 DR. BRIAN SHERON: It's the turbine
11 building. In the basement.

12 MR. KAPPELMAN: Okay. Thanks.

13 DR. BRIAN SHERON: Okay, I guess if
14 there's no more questions, I thank everybody for
15 calling in and note that the call tomorrow morning is
16 going to shift back to 0730.

17 MALE PARTICIPANT: Oh, okay, yes.
18 Tomorrow morning it's back at 7:30. Everybody got
19 that?

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: Got it.

22 MALE PARTICIPANT: I got it, thank you
23 very much.

24 MALE PARTICIPANT: Okay, have a good
25 evening.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrross.com

1 MALE PARTICIPANT: You, too.

2 MALE PARTICIPANT: Bye.

3 MR. BRENNER: Hey, Brian, you still on the
4 line?

5 DR. BRIAN SHERON: Yes, I'm still here.

6 MR. BRENNER: Hey, it's Eliot. I just
7 shot you an email regarding a figure that I saw in the
8 spent fuel paper and if you could just look at that
9 email and shoot me an answer?

10 DR. BRIAN SHERON: Let me try and find it
11 here.

12 MR. BRENNER: Oops, it was on , I got the
13 email address wrong.

14 DR. BRIAN SHERON: Yes, I don't see it
15 here.

16 MR. BRENNER: Okay, are we on this line
17 just you and me?

18 DR. BRIAN SHERON: I got the others in the
19 ET (phonetic) room here. And it's a recorded line,
20 Eliot.

21 MR. BRENNER: All right. I'll tell you
22 what, I'll call you back as soon as I get in the house
23 and maybe I can get you on an unrecorded line.

24 DR. BRIAN SHERON: Okay.

25 MR. BRENNER: All right, just a couple of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 minutes. Talk to you later.

2 DR. BRIAN SHERON: Yes.

3 MR. BRENNER: Bye.

4 MR. KAPPELMAN: Brian, this is Pat
5 Kappelman. You mentioned that the PMT is compiled
6 from comprehensive lists of the hypothetical source
7 terms that have been supplied to NARAC. How large is
8 that document?

9 DR. BRIAN SHERON: It's a one-page table,
10 Pat.

11 MR. KAPPELMAN: Okay, could we get a copy
12 of that?

13 DR. BRIAN SHERON: Yes, I don't know why
14 not.

15 MR. KAPPELMAN: Okay, that would be good.
16 That would be good to try and sort things out.

17 DR. BRIAN SHERON: There's still some, I
18 think there's still some gaps in that that we're
19 trying to fill, but it sort of summarizes what we did
20 on various days, you can see the progression.

21 MR. KAPPELMAN: Okay. Yes, well that's
22 good, that would be very helpful because, you know,
23 it's been a dynamic environment and it's been kind of
24 difficult to try and keep everything straight.

25 DR. BRIAN SHERON: Yes. I'd say if we did

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 it today we would have a different source term.

2 MR. KAPPELMAN: Yes.

3 DR. BRIAN SHERON: So don't get hung up on
4 the values in there, it was what we were thinking at
5 any given moment from, I think we started around the
6 15th and you work your way down to where we were on
7 the 24th.

8 MR. KAPPELMAN: Right. That makes sense.

9 Do we have any more information from AMF (phonetic)
10 (inaudible)?

11 MALE PARTICIPANT: No, Chris is shaking
12 her head. So we haven't gotten anything new.

13 MR. KAPPELMAN: Oh, okay. And then one of
14 the things that was mentioned in a previous Sitrep was
15 that we were updating the reentry recommendations.
16 Has that update been done yet?

17 DR. BRIAN SHERON: Yes, the package was
18 put together. Trying to remember, where did we
19 transmit that package?

20 FEMALE PARTICIPANT: (inaudible)

21 DR. BRIAN SHERON: It's just entitled,
22 "Draft Comment" it was for comment. When I left here
23 this morning we had sent it out to the site team for
24 comment and I don't know that we've gotten comments
25 back from the site team.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3704

1 So that's sort of, my understanding about
2 the status is that it's entitled, "Draft for comments,
3 reentry guidance". And it basically includes about a
4 page and a half of how one might approach short-term
5 reentry for retrieval of personal effects.

6 MR. KAPPELMAN: Okay.

7 DR. BRIAN SHERON: That's sort of still in
8 play, just, you know, another draft we're working
9 with.

10 MR. KAPPELMAN: Okay, so that's a work in
11 progress, then. And then like yesterday's Sitrep had
12 something about, we got some NARAC results from march
13 26th and then we haven't heard anything more about
14 those.

15 Could you give us a little snapshot of
16 what those are or what they said?

17 MALE PARTICIPANT: (inaudible) familiar.

18 MR. KAPPELMAN: Not familiar? Okay.

19 FEMALE PARTICIPANT: Well, I think that is
20 the same measure that we had turn over to OSCP
21 (phonetic) (inaudible).

22 MR. KAPPELMAN: Okay. Okay, thank you.

23 MR. BRENNER: Hey, it's Eliot, I got a
24 quick one, Brian. Is it the intent to use that
25 (b)(4) apparatus to move the freshwater from the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 barges up to the reactor complex?

2 MR. VIRGILIO: They were originally
3 designed, hey Eliot, it's Marty. They were originally
4 designed to provide water to the spent fuel pools.
5 There was some talk about how they would be deployed
6 once they got onsite, but that's the design.

7 MR. BRENNER: okay, thanks.

8 MR. VIRGILIO: And it was actually, the
9 original design was saltwater to the spent fuel pools.
10 So they need.

11 MR. BRENNER: Right, understood, but I
12 noticed that the transition at least (phonetic) for
13 the reactors over to fresh, I wasn't quite sure what
14 this apparatus was going to be used for now.

15 MR. BROWN: This is (b)(5) We've
16 heard from naval reactors that the initial pump, which
17 was the submerged pump in the ocean has actually been
18 loaded onto a barge, the freshwater barge, and it will
19 be the initial pumping out of the barge into a
20 distribution system.

21 But I don't know that we've heard from
22 TEPCO exactly how they'll put all those other pieces
23 together.

24 MR. BRENNER: Okay, I'm sure that will
25 unfold as the days go on. Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

1 DR. BRIAN SHERON: Hey, Kathy?

2 MS. BROCK: Brian?

3 DR. BRIAN SHERON: Hey, Kathy?

4 MS. BROCK: Hey, yes, I didn't want to say
5 anything on the call. Tomorrow morning is when I'm
6 going down to brief BRC (phonetic) rep, well, I guess
7 it's ex-Representative Hamilton.

8 DR. BRIAN SHERON: Right.

9 MS. BROCK: And Jason Shapiro is going
10 with me, I guess from your group?

11 DR. BRIAN SHERON: That's right.

12 MS. BROCK: What, I'm curious about is, if
13 I can get a copy of, I guess that report where you
14 guys have talked about the safety of the spent fuel
15 pools and the (inaudible) because I want to make sure
16 that I'm consistent with what, I guess you guys gave
17 that to the White House, right?

18 DR. BRIAN SHERON: Yes.

19 MR. VIRGILIO: Kathy, it's Marty. It's
20 just a two-page summary and one of the things that we
21 were going to ask you is, in the summary, which was
22 still a work in progress when I left this morning, we
23 say that we talked about a three year in the spent
24 fuel pool before it's moved to the cap.

25 I thought the reg said five?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

www.nealrgross.com

1 MS. BROCK: That's what I thought.

2 MR. VIRGILIO: Yes, I think there may be
3 an error in that.

4 MS. BROCK: I mean, because I've always
5 heard of it as five.

6 MR. VIRGILIO: Could you check with
7 somebody tonight?

8 MS. BROCK: Okay.

9 MR. VIRGILIO: Because we've sent this
10 down to the White House and it might not be correct.

11 MS. BROCK: Okay.

12 MALE PARTICIPANT: Yes, if we go to
13 correct it, we've got to do it real quick and resend
14 it.

15 MS. BROCK: Okay, all right, well let me
16 see what I can do, then and then I'll give you a call
17 back.

18 DR. BRIAN SHERON: All right.

19 MR. VIRGILIO: In the meantime, we can,
20 where do you want us, to email this to your private
21 account or to your work account?

22 MS. BROCK: Well, if you can, yes, just
23 email it to my NRC account. And I'll catch it in the
24 morning. I just wanted to make sure that we're all
25 saying the same thing.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MR. VIRGILIO: Yes, okay.

2 MS. BROCK: Okay and then I'll get back
3 with you on the other topic.

4 MR. VIRGILIO: All right, thanks.

5 MS. BROCK: Okay, yes, thank you, bye-bye.

6 MR. VIRGILIO: Bye.

7 (CONFERENCE CALL ENDED.)

8

9

10

11

12 (CONFERENCE CALL INITIATED)

13 DR. BRIAN SHERON: Hey, Kathy? Kathy?

14 MS. BROCK: Hey, Brian?

15 DR. BRIAN SHERON: Hi, Kathy.

16 MS. BROCK: Hey, yes, I called Vonna
17 (phonetic) and she happened to have the regs at home
18 and about the only time limit she could find was in
19 the definitions of spent fuel in Part 72, which is
20 actually just one year, but that's in defining Spent
21 Fuel.

22 And the, I guess the lowest we've ever
23 been asked to okay movement was three years, which is
24 where I suspect the three years came from.

25 So I don't, I mean, in my mind I always

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 had five, I'm not sure where that came from, but I'd
2 say based on that answer, we just leave it as it is
3 for now.

4 DR. BRIAN SHERON: Okay. All right.

5 MS. BROCK: All right, if I hear anything
6 else, I'll, all the techs that she spoke with, and she
7 spoke with Bernie about it, so I think we kind of
8 closed the loop, but if I find anything more I'll let
9 you know.

10 DR. BRIAN SHERON: All right.

11 MS. BROCK: If you guys can just send that
12 document to me, that'll be good and then I'll let you
13 know how the briefing goes.

14 DR. BRIAN SHERON: Will do, yes, we're
15 going, Melissa (phonetic), we're going to send it?

16 MELISSA: To Kathy? Yes.

17 DR. BRIAN SHERON: To Kathy. Yes.

18 MELISSA: I'll send it right now.

19 DR. BRIAN SHERON: She's sending it right
20 now.

21 MS. BROCK: okay, wonderful. Thanks for
22 the help. Take care.

23 DR. BRIAN SHERON: Bye.

24 MS. BROCK: Bye.

25 (CONFERENCE CALL ENDED.)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1

2

3

4

5

6

7

8

9

10

11

12

13

(CONFERENCE CALL INITIATED)

14

MALE PARTICIPANT: Mr. Blount (phonetic)

15

is coming up onto the ET Bridge.

16

DR. BRIAN SHERON: Tom?

17

MALE PARTICIPANT: Tom, you're on the ET

18

Bridge.

19

MR. BLOUNT: This is Tom Blount.

20

DR. BRIAN SHERON: Hey, Tom?

21

MB: Yes?

22

DR. BRIAN SHERON: Hi, this is Brian.

23

MR. BLOUNT: Yes, sir?

24

DR. BRIAN SHERON: You were working on

25

(b)(5)

white paper on spent fuel today?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-2701

1 MR. BLOUNT: Yes.

2 DR. BRIAN SHERON: In the paper it said,
3 let me grab a copy here, I'll read it. Crap, where is
4 that page? Ah, here it is. Up in the first line it
5 says, 'immediately after discharge from the reactor
6 during refueling, spent fuel must be stored wet in
7 storage pools for at least three years until it is
8 sufficiently cool to permit dry storage in casks.'

9 And then two paragraphs down, it says,
10 "dry cask storage allows spent fuel that has already
11 been cooled in the spent fuel pools for at least three
12 years to be surrounded by inert gas inside a container
13 called the cask."

14 Thee question is, that the regulations
15 only say that the fuel has to be cooled for a year
16 before it can be considered for a cask, dry cask, and
17 so the rule of thumb around the agency seems to be
18 that fuel has to cool in the pool for about five
19 years.

20 And the question is, where did the three
21 years come from? What was the basis for saying three
22 years?

23 MR. BLOUNT: From my understanding, I
24 didn't work the technical piece of that paper. I just
25 moved it around, but from what I understand, because

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the question came up relative, the original document
2 said one year and in talking to the folks that were
3 working it in the RST, Jennifer was very adamant,
4 Jennifer Ewell, was very adamant that it was three
5 years.

6 So that's what got put in the paper.

7 DR. BRIAN SHERON: We were trying to,
8 Eliot Brenner had asked the question because, you
9 know, he said he's been telling all the press and the
10 media that it's five years and so he sees this in here
11 that says three, you know, and then when we checked
12 the regulations, it says one.

13 MR. BLOUNT: Right.

14 DR. BRIAN SHERON: And so we're trying to
15 understand, you know, what was the basis for saying
16 three as opposed to, say, five? And you said
17 Jennifer? It was Jennifer that put it in there?
18 Because we had heard that Josh Batkin wanted to say
19 something about that and Jennifer would have gotten
20 off shift at 7:00.

21 MR. BLOUNT: Correct.

22 DR. BRIAN SHERON: And we saw some notes
23 from josh at around 11:00.

24 MR. BLOUNT: Correct, and the paper was
25 crafted prior to my coming on shift. Basically what I

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 was doing was moving it between the RST and the folks
2 that were okaying it. Josh, Bill Borchardt and then

3 (b)(5)

4 DR. BRIAN SHERON: So you don't know where
5 the three years came from?

6 MR. BLOUNT: No, I don't. Now Pat Hyland
7 (phonetic) was RST director that was on while I was on
8 and it was his crew that was actually doing the
9 technical work on it.

10 DR. BRIAN SHERON: All right, we're going
11 to, yes, we're going to try and get Pat on the line
12 then.

13 MR. BLOUNT: Okay.

14 DR. BRIAN SHERON: So that's a good help,
15 that's a big help, though. All right, thank you very
16 much, then, sir.

17 MR. BLOUNT: Sorry I couldn't be more
18 help.

19 DR. BRIAN SHERON: No, that's okay, you
20 helped us at least try to narrow down, you know, who
21 might now.

22 MR. BLOUNT: I understand.

23 DR. BRIAN SHERON: Okay, thanks.

24 MR. BLOUNT: You want me to hang on the
25 line?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON D.C. 20005-3701

www.nealrgross.com

1 DR. BRIAN SHERON: No, that's all right,
2 because if you weren't involved, we'll just call Pat
3 and see what he says.

4 MR. BLOUNT: Yes, and from what I
5 understand, and I don't know the gentleman's name that
6 was actually doing the technical piece of it, but I
7 specifically asked the question.

8 Because the first version that we had said
9 one year and the next version was the one that had the
10 three years. And Jim Dyer actually saw that and asked
11 the question.

12 So I went and asked the RST folks and that
13 was where the gentleman came back and said, it was one
14 year in the regulations, but Jennifer was adamant that
15 it should be three years.

16 DR. BRIAN SHERON: All right. I wonder if
17 we should talk with Jennifer, then?

18 MR. BLOUNT: I really would suggest, you
19 know, you can talk with Pat, but I would suggest
20 Jennifer has probably got a better handle on it.

21 DR. BRIAN SHERON: All right, we'll try
22 and get Jennifer, then.

23 MR. BLOUNT: All right. Now, you know,
24 that's just secondhand information at this point.

25 DR. BRIAN SHERON: Yes, okay, we'll call

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 and find out.

2 MR. BLOUNT: All righty, sir.

3 DR. BRIAN SHERON: All right, thanks.

4 MR. BLOUNT: Talk to (phonetic) you.

5 Bye-bye.

6 (CONFERENCE CALL ENDED.)

7

8

9

10

11

12

13

14 (CONFERENCE CALL INITIATED)

15 NRC OPERATIONS OFFICER: This is the NRC
16 Operations Officer. Can we transfer this interagency
17 call up to the ET Bridge now?

18 DR. BRIAN SHERON: Yes, you're here.

19 NRC OPERATIONS OFFICER: I'm going to
20 transfer you up, this call up to the Bridge.

21 MR. DONOVAN: All right, good morning
22 everyone, I know everybody in Tokyo is very busy right
23 now, so let's move quickly to humanitarian assistance.

24 MR. BERGER: Okay, this is Bill Berger
25 (phonetic), Dark Team Leader in Tokyo. This morning

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON D.C. 20005-3701

www.nealrross.com

1 we had a 6.5 aftershock. There was a tsunami warning
2 issued, but it was for a small tsunami, it was about a
3 half a meter, we understand and it was called off so
4 that's had no consequence.

5 Where we stand, at deaths, 10,035.
6 Missing, 17,443. Injured, 2777. There's a quarter of
7 a million people in evacuation centers and about 2000
8 evacuation centers.

9 Our teams continue to make a series of
10 assessments along with (inaudible) and the cabinet
11 secretary and the U.N. to have the ground level out,
12 to assess what the situation is. The problems that
13 we're seeing are not problems --

14 (CONFERENCE CALL ENDED.)
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Bernie?

MALE PARTICIPANT: I don't think he's
here.

MALE PARTICIPANT: Oh, okay.

MALE PARTICIPANT: (inaudible)

MALE PARTICIPANT: Hey, Bernie?

MALE PARTICIPANT: He's coming.

MALE PARTICIPANT: Okay. Bernie?

MR. WHITE: Hello, this is Bernie White.

MALE PARTICIPANT: All right, Bernie?

MR. WHITE: yes?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: You worked on that
2 spent fuel pool paper, right?

3 MR. WHITE: Yes, I did. I worked on the
4 dry cast storage portion of it.

5 MALE PARTICIPANT: Yes. In the paper, we
6 got a question. It said in the first, up in the first
7 paragraph, second sentence, it says, "Immediately
8 after discharge from the reactor during refueling,
9 spent fuel must be stored wet in storage pools for at
10 least three years until it is sufficiently cooled to
11 permit dry storage in casks."

12 And then down in the third paragraph,
13 second sentence says, "Dry cast storage allows spend
14 fuel that has already been cooled in the spent fuel
15 pool for at least three years to be surrounded by
16 inert gas inside a container called the cask."

17 MR. WHITE: Yes.

18 MALE PARTICIPANT: We had a question
19 raised. The regulations only say one year.

20 MR. WHITE: Right.

21 MALE PARTICIPANT: As the minimum time.
22 And the rule of thumb that everybody has always used
23 has been that fuel should probably be cooled in the
24 pool for about five years before it's cooled down
25 enough to be air cooled in a cask.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-2701

1 MR. WHITE: Yes. We have.

2 MALE PARTICIPANT: And but we said three
3 years and the question is, what is the logic behind
4 three years?

5 MR. WHITE: I think we have one or two
6 certificates of compliance that the minimum time is
7 three years. I mean, that could be easily changed to
8 say, "about five" if you want.

9 MALE PARTICIPANT: No, I don't want to say
10 that, but the fact, (b)(5) so
11 I just want to know, I want to be able to explain.

12 If somebody says, "Hey, gee, I always
13 thought it was five. Why'd you say three?"

14 MR. WHITE: Yes, it's just the minimum.
15 One of our certificates that we, when we do the NRC
16 approvals, one of our certificates has a minimum of
17 three years.

18 MALE PARTICIPANT: Okay, so it's just
19 that's the minimum that we've ever licensed?

20 MR. WHITE: At this point that I'm aware
21 of, yes.

22 MALE PARTICIPANT: Okay.

23 MR. WHITE: (inaudible) more.

24 MALE PARTICIPANT: We kind of suspected
25 that. Okay, that answers it, then. All right, good,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that's all we really needed to know.

2 MR. WHITE: Okay. You're welcome.

3 MALE PARTICIPANT: All right, thanks a
4 lot.

5 MR. WHITE: You're welcome.

6 MALE PARTICIPANT: Bye-bye.

7 MR. WHITE: Bye.

8 (CONFERENCE CALL ENDED.)
9

10

11

12

13

14

15 (CONFERENCE CALL INITIATED)

16 MALE PARTICIPANT: (inaudible) right now.

17 MALE PARTICIPANT: Dan?

18 DAN: Good afternoon, gentlemen.

19 MALE PARTICIPANT: Hey, good afternoon.

20 MALE PARTICIPANT: (inaudible) where are
21 you? Good evening, good morning?

22 MALE PARTICIPANT: Good morning.

23 MALE PARTICIPANT: Good morning, Japan.

24 MALE PARTICIPANT: Morning and I'm in a
25 Navy van on the way over to TEPCO.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: Okay, I just wanted to
2 touch base and see if there was anything you needed
3 from us today to support the chairman's visit?

4 DAN: I think we're good. I think they're
5 out at the airport bringing him in now, but I think
6 he's going to be in the embassy for a little bit and
7 then we're going to get him out to NISA and TEPCO and
8 meet with the cabinet level and then go to our routine
9 8:00 meeting tonight and I think the ambassador is
10 going to join us for that as well.

11 But I think we've got what we need for
12 that.

13 MALE PARTICIPANT: Okay. A question has
14 come up with respect to the paper that we developed
15 and the tool that we developed for your use in
16 interacting with your Japanese counterparts.

17 DAN: Okay.

18 MALE PARTICIPANT: And we just want to
19 confirm that you had everything you needed there.

20 DAN: I guess the one question that I have
21 in my mind, I last touched this last night our time
22 was, the paper that we were using as a discussion tool
23 with our counterparts, there was a need to adapt that
24 into a matrix (b)(5)
25 kind of went down the three reactors and four spent

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 fuel pools and what do we think TEPCO's actions are
2 and what do you think our actions would be and what
3 are the gaps and our strategies to close the gaps?

4 And I think there was maybe some poor
5 communications yesterday that we thought that the RST
6 was filling in the actions that the NRC would take on
7 that matrix. But basically, I think all the
8 information is there in that paper, it's just a
9 question of getting it into one page matrix that would
10 support the ambassador's needs.

11 But I think at the bottom of that, John
12 Monninger was working on the bottom of that matrix to
13 do, you know, milestones of, you know, what are the
14 key steps that we would see towards stability that
15 would help the ambassador in decision making on, you
16 know, you've got all these dependents that left here
17 and everything looks relatively cool and calm from the
18 outside and, you know, when can they come back and all
19 that sort of discussion.

20 And so I think the --

21 MALE PARTICIPANT: Dan?

22 MALE PARTICIPANT: Dan?

23 MALE PARTICIPANT: Okay, let's get
24 Monninger up on the lien because it sounds like John's
25 the one that's working on that.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 MALE PARTICIPANT: He's on a cell phone,
2 (inaudible) said we got cut off by the building
3 (inaudible).

4 MALE PARTICIPANT: But he told us enough
5 that it was Monninger that's working on this now?

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: So we just need to
8 follow up to see that this is pretty good. I mean, I
9 don't know (inaudible) Monninger's (inaudible), but I
10 guess now we get to find out.

11 FEMALE PARTICIPANT: (inaudible)

12 MALE PARTICIPANT: He dropped off.

13 FEMALE PARTICIPANT: He did? Okay, thank
14 you.

15 MALE PARTICIPANT: (inaudible)

16 MALE PARTICIPANT: I have not seen that
17 format or that version of it.

18 MALE PARTICIPANT: You hadn't, Chris
19 (phonetic)?

20 CHRIS: No.

21 MALE PARTICIPANT: Oh.

22 CHRIS: There was like a (inaudible)
23 version.

24 MALE PARTICIPANT: Yes, I've got the text
25 version, too.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MALE PARTICIPANT: But not (inaudible).

2 MALE PARTICIPANT: But not (inaudible) was
3 with a chairman going to the embassy.

4 MALE PARTICIPANT: No, then, no, let it
5 go.

6 MALE PARTICIPANT: No?

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Okay, they (inaudible)
9 okay, thanks.

10 MALE PARTICIPANT: Okay, thank you.

11 (CONFERENCE CALL ENDED.)
12
13

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com