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Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi Audio File
Protective Measures Team - Day 1

Docket Number: n/a

Location: n/a

Date: March 11, 2011

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1 UNITED STATES OF AMERICA

2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI AUDIO FILE

5 PROTECTIVE MEASURES TEAM

6 + + + + +

7 FRIDAY

8 MARCH 11, 2011

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2 0%8F@^4L15365094 (Contains no words to transcribe)

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0%8FJ@CL15365094

(CONFERENCE CALL INITIATED)

MR. LAYTON: Hey, Julie. This is Mike Layton (Phonetic) from the NRC. I saw some emails that you sent up to Joe Shay, or Joe Rivers, and you wanted some information on some things going on in Japan, and we're available to talk to you. Please give me a call at (b)(6) and we'll set up a call for you. I'm also going to send you an email. Thanks a lot.

0%8NC$K_15365094 (Contains no words to transcribe)

0%8NDWBL15365094 (Contains no words to transcribe)

1 0%8NFJH615365094 (Contains no words to transcribe)

2 0%8NHFK_15365094 (Contains no words to transcribe)

3 0%8NI4H615365094 (Contains no words to transcribe)

4 0%8NIAC615365094 (Contains no words to transcribe)

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24 (CONFERENCE CALL INITIATED)

25 ALAN: Okay, so let's get started. John,

do you want to start?

MALE PARTICIPANT: Which facility is this?

MALE PARTICIPANT: Fukushima Daiichi.

JOHN: Yes, I guess. This is John (Inaudible) from NARAC and Lawrence Livermore Labs. I think where we left it on our last call is some of the NRC RSCL (Phonetic) folks were going to come in and start looking at reactor conditions.

I guess we haven't seen the latest IAEA reports, I don't believe. There's lots of different news coming out. Ron's been kind of checking on that. Do you have anything to report, Ron?

RON: No, just that, again, that there's potential for release, but it's not an official announcement that there has been any venting.

MALE PARTICIPANT: Okay.

JOHN: So we just got a current email message came in a little bit ago. We're going to check on that, and we'll hopefully get that to you shortly. Does anyone else have any other news on the reactor conditions?

BILL: Hey, John, this is Bill. Can you clarify what was just said about you haven't received the IAEA report? Was that the one that I was referring to before that I promised I'd send you, because I sent

1 that?

2 JOHN: Oh, you did? Okay.

3 BILL: I sent it to the HO-HOC address, as

4 well as NARAC a LONL.

5 MALE PARTICIPANT: We don't have any new

6 information on the plans.

7 BILL: It could have come from Warren

8 Walepski's (Phonetic) account.

9 JOHN: I see it. It came from

10 (Inaudible). Yes, okay. All right, so we do have

11 that. Bill, do you want to kind of run down that? Do

12 you have that in front of you?

13 BILL: You mean a summary of what it says?

14 JOHN: Yes.

15 BILL: Give me a sec here. Okay,

16 according to that IAEA report, so there's three units

17 at Fukushima 1. Unit 1 -- well, all three units are in

18 maintain shutdown status. Unit 1, no information on

19 the status of the power supply to Unit 1.

20 The reactor water level is oscillating at

21 1530 UTC. It was observed to be 130 centimeters above

22 the top of the core, containment intact but increasing

23 containment pressure. A decision was made to perform

24 "limited controlled venting."

25 Unit 2, again, maintain shutdown status,

1 no power supply to Unit 2. They are undergoing work to
2 restore. (Inaudible) intact. Water was observed 350
3 centimeters above the top of the core as of 1530 UTC.
4 Unit 3, maintain shutdown status, 450
5 centimeters above the top of the core at 1300 UTC.
6 That's a different time than the other two reported.
7 Containment intact, and mobile power generator has
8 arrived at site. No information on the capacity of
9 that thing, and that report went to the IAEA as of 1830
10 UTC 11 March, so there may be more current information
11 than that.
12 We've been looking at the TEPCO press
13 releases. If you go to the TEPCO website, I think I
14 added a couple of links there. We've been monitoring
15 those. I don't know if there's another better up-to-
16 date source for information on the status of those
17 plants, but that's what I have.
18 0%8NPXG_15365094
19 BILL: Hey, this is Bill again. Did you
20 guys copy that at all?
21 MALE PARTICIPANT: Yes. Yes, we got it.
22 BILL: Okay, good.
23 0%8NQ83_15365094
24 MALE PARTICIPANT: Yes, so we're looking
25 at the TEPCO report that you sent the link to Bill, and

1 it looks like they're reporting did not believe there
2 was leakage of reactor coolant in the containment
3 vessel of Unit 1 at this moment. Same thing for Unit
4 2, same thing for Unit 3 and 4. Then there's also a
5 note that says no radiation impact to the external
6 environment has been confirmed.
7 0%8NR8@L15365094
8 BILL: Okay, this is Bill again. I have
9 some more information, actual numbers that came from, I
10 believe, a Japanese-only press release from TEPCO. I
11 don't know if there is an English version of it, and I
12 can fax this page to -- John, give me your fax number,
13 as well. I have the NRC fax number, but I'll read the
14 numbers off, but I'll fax this out to you, as well.
15 JOHN: Okay, so the NARAC fax number is
16 925-423-4527.
17 BILL: Okay, 925-423-4527.
18 JOHN: Right.
19 BILL: And I will fax it to the NRC at
20 301-816-5151.
21 MALE PARTICIPANT: That's correct.
22 JOHN: Can you fax one of those to
23 Livermore, please?
24 BILL: What's that?
25 JOHN: Can you fax one of those to

1 Livermore?

2 BILL: Okay, are you guys ready to copy

3 some numbers? Okay, the email I'm reading from here

4 says, "According to TEPCO's website, the radiation

5 levels at the main gate of Fukushima Daiichi, Fukushima

6 1, are as in below. So these look like times, so 340,

7 I guess that's local time. I'm not sure, but at 340,

8 66 nano-Gray per hour.

9 MALE PARTICIPANT: 66 nano-Gray.

10 BILL: At 350, 64 nano-Gray per hour.

11 Four o'clock, 59 nano-Gray per hour. At 440, 866 nano-

12 Gray per hour. At 450, 1,002 nano-Gray per hour. At

13 510, 1,590 nano-Gray per hour.

14 MALE PARTICIPANT: Could you repeat that

15 last one?

16 BILL: The last one is 510, 1,590 nano-

17 Gray per hour, 1-5-9-0.

18 MALE PARTICIPANT: 1,950 nano-Gray.

19 BILL: 1-5-9-0.

20 MALE PARTICIPANT: Oh, 1,590.

21 MALE PARTICIPANT: Yes, I've got 1,590.

22 BILL: That's it for the numbers. I'll

23 fax these pages out to you, as well.

24 MALE PARTICIPANT: Where was the location

25 of that reading?

1 BILL: What it reports is at the main gate
2 of Fukushima Daiichi Power Plant, which is Fukushima 1,
3 at the main gate.
4 MALE PARTICIPANT: Okay, thank you.
5 MALE PARTICIPANT: Did Greg want a
6 sandwich?
7 MALE PARTICIPANT: I don't think so.
8 MALE PARTICIPANT: The procedure books are
9 there?
10 MALE PARTICIPANT: Yes, I threw it over
11 there.
12 MALE PARTICIPANT: Okay, I grabbed mine.
13 Be efficient.
14 MALE PARTICIPANT: (Inaudible)
15 MALE PARTICIPANT: No, I'm that one, RAAD.
16 MALE PARTICIPANT: Oh, okay.
17 MALE PARTICIPANT: I'm on the Gold Team.
18 MALE PARTICIPANT: I'm on the Red Team.
19 (Inaudible) MALE PARTICIPANT: He's
20 coming in 11:00, midnight, soon as he can get in.
21 MALE PARTICIPANT: Which dude is that?
22 MALE PARTICIPANT: (Inaudible)
23 0%9!5I5615365094 (Contains no words to transcribe)
24 0%9!8Q%615365094
25 BILL: Hello, this is Bill at Net Ops. Is

1 NRC or NARAC still on the bridge line?

2 MALE PARTICIPANT: This is NRC.

3 BILL: Okay, NRC, I just sent -- the

4 numbers I was trying to fax, I found a email, and I

5 emailed them to HUHOC (Phonetic).

6 MALE PARTICIPANT: Okay, it'll get here.

7 MALE PARTICIPANT: So, based on this --

8 BILL: NARAC is (inaudible) to NARAC and

9 L&L, as well.

10 MALE PARTICIPANT: Okay. Thank you, Bill.

11 Yes, we got your fax also, Bill. At this point, does

12 anyone have -- I didn't see much detail there about

13 when the venting might have happened. Does anyone have

14 any information on that?

15 MALE PARTICIPANT: We're just going

16 through the press releases.

17 BILL: I see a lot of references to

18 preform a limited control venting, but I don't actually

19 see an estimate of when that might have happened.

20 MALE PARTICIPANT: So, if you look at

21 these TEPCO reports, 6:00 a.m., the 6:00 a.m. report is

22 the first time that they mention the fact that they're

23 continuing to monitor discharge of radioactive

24 materials from exhaust stack, so I'm wondering if we

25 can infer from that that sometime between 5:00 a.m. --

1 the report before that was 5:00 a.m., and it didn't
2 mention that.
3 MALE PARTICIPANT: Okay.
4 MALE PARTICIPANT: I'm wondering if we can
5 infer from that that it was between 5:00 a.m. and 6:00
6 a.m.
7 MALE PARTICIPANT: I think 5:00 a.m. is
8 20Z.
9 MALE PARTICIPANT: 20Z?
10 MALE PARTICIPANT: I think.
11 MALE PARTICIPANT: The 6:00 a.m., they
12 started this control vent?
13 MALE PARTICIPANT: Yes, that's just kind
14 of trying to read between the lines here, because the
15 6:00 a.m. report is the first time they mention
16 elevated measurements of radioactivity and that fact
17 that they're continuing to monitor discharge from
18 exhaust stack and discharge panel.
19 MALE PARTICIPANT: And those readings
20 earlier, those were from the survey team, the site
21 boundary, or you said the front gate or whatever.
22 MALE PARTICIPANT: I think, yes, Bill said
23 that was the main gate, yes.
24 MALE PARTICIPANT: At the main gate, yes.
25 MALE PARTICIPANT: But nothing off the

1 stack monitor.

2 MALE PARTICIPANT: I haven't seen anything

3 like that.

4 MALE PARTICIPANT: Yes, that would make

5 our life easy.

6 MALE PARTICIPANT: Sure would.

7 MALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: If they're monitoring

9 it, it would be nice to know what they're monitoring

10 instead of trying to estimate it.

11 MALE PARTICIPANT: Right. Right. Okay.

12 MALE PARTICIPANT: They mention iodine, et

13 cetera, but does that make sense?

14 MALE PARTICIPANT: Not really. No, it

15 really doesn't.

16 MALE PARTICIPANT: It's interesting,

17 because it says, "Measurement of radioactive material

18 by monitoring car indicate increased values," and it

19 says -- in parentheses it says, "Iodine, et cetera," so

20 I'm wondering if that's just a generic term they're

21 using.

22 MALE PARTICIPANT: Yes, that wouldn't --

23 you wouldn't expect that from a controlled vent or at

24 this stage of their event. It's possible they could --

25 they're talking about such low levels, you know,

1 measuring in the micro range, so it's possible.

2 Typically, survey teams, when they take

3 readings, they'll come up with a Teddy (phonetic) and a

4 CD measurement just as a routine, even if there really

5 isn't much there. So they'll take a -- you know,

6 they'll take the Teddy, and then they'll estimate a

7 thyroid dose from that, maybe, but it's just hard to

8 say without good value.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: Yes.

11 MALE PARTICIPANT: So is anyone at NRC

12 thinking about taking a stab at estimating the --

13 MALE PARTICIPANT: We're doing it now,

14 yes. We're making -- we're doing some runs now.

15 MALE PARTICIPANT: Okay. All right.

16 MALE PARTICIPANT: So, we'll get -- yes,

17 we've got a couple scenarios, and we're doing the runs,

18 and then we'll validate and get it to you. We'll give

19 you a couple different scenarios so we can get maybe

20 some ballpark estimates.

21 MALE PARTICIPANT: Will you guys also try

22 to -- and I guess this is hard to predict, but do you

23 have -- do you have any way of just taking a wild guess

24 at how long they might be venting this stuff, or do we

25 just assume it's continuous?

1 MALE PARTICIPANT: Probably wouldn't be
2 continuous. Let me -- let me look at that. We might
3 be able to do some guesstimates. We'll just leave this
4 line open here at NARAC for now.
5 MALE PARTICIPANT: Okay.
6 MALE PARTICIPANT: And if anyone has
7 anything, we'll be on the line.
8 MALE PARTICIPANT: Okay, great.
9 MALE PARTICIPANT: You have our -- you
10 have our number, so if you can't raise us on this line,
11 just give us a call.
12 MALE PARTICIPANT: All right. I'll get
13 back on the line. I'll ask that question across the
14 hall here and see who we can come up with.
15 MALE PARTICIPANT: Okay.
16 MALE PARTICIPANT: Get back with you.
17 MALE PARTICIPANT: Thank you.
18 MALE PARTICIPANT: All right.
19 0%9#2Z!L15365094
20 MR. CASTO: This is Greg Casto at NRC.
21 We're looking for somebody from NARAC on the line.
22 Come on, guys. Let me call them.
23 Wind speed, direction, stability class, is
24 this what you're looking for?
25 Hi, Karen, this is Greg Casto at the NRC.

1 Hi, I was calling in to NARAC. We were on the bridge
2 with John Nostrong (Phonetic). Does that sound right?
3 Anyway, had some questions for them, and we're still
4 on the bridge, but I can't get anybody on the other
5 side. Are you also in the same room? Oh, okay. Okay,
6 or I can ask you.
7 Our question is we're doing some RSCL runs
8 for source term data, and we need some current met
9 data, wind speed, wind stability or wind speed, wind
10 direction, stability class. Yes.
11 0%9#5HN_15365094 (Contains no words to transcribe)
12 0%9#6!#L15365094
13 MR. CASTO: Hey, John, this is Greg Casto.
14 Hey. You guys have current met data. Okay. Yes,
15 it's probably more me, but wind speed, wind direction,
16 stability class, delta-T or whatever you -- okay.
17 0%9#6^E_15365094 (Contains no words to transcribe)
18 0%9#7^0_15365094 (Contains no words to transcribe)
19 0%9#7F@615365094 (Contains no words to transcribe)
20 0%9#8B5L15365094 (Contains no words to transcribe)
21 0%9#8M@_15365094 (Contains no words to transcribe)
22 0%9#9#M_15365094 (Contains no words to transcribe)
23 0%9#9J-_15365094 (Contains no words to transcribe)
24 0%9#70L615365094 (Contains no words to transcribe)
25 0%9#(^P615365094

1 MR. CASTO: This is Greg Casto. Is
2 anybody on?
3 MR. REMMICK: Hi, this is Alan Remmick
4 (Phonetic). We're on right now.
5 MR. CASTO: Hey, Alan.
6 MR. REMMICK: We've got an open line here.
7 MR. CASTO: Okay. I think it was John
8 that was talking about what the possible duration would
9 be for one of these controlled vents, and we've looked
10 into it a little bit. Who knows?
11 It's possible we could use something. You
12 know, four to eight hours might be a reasonable thing,
13 probably wouldn't be continuous. We think it would
14 probably be pretty slow, depending on how confident
15 they were they were going to get some power back or
16 some control back, but one thing that our reactor team
17 thought they understood was that -- a couple things.
18 Unit 2 they believe is the unit that's
19 venting now. They're not sure about Unit 1, but they
20 had a report that Unit 2 when they started venting was
21 at 100 PSI, and I believe that information came from an
22 IAEA report. I don't know if you've seen similar
23 information. Typically, you'd have better information
24 than we have.
25 0%9#@F9615365094 (Contains no words to transcribe)

0%9$1I)615365094

MR. REMMICK: Okay, yes, I'm not sure who was giving the impression that we were going to give like hourly updates on the plant status or on met data and stuff like that, but we just don't have that information.

MR. CASTO: Okay.

MR. BIEHL: We would do the same thing that you would, checking Weather Underground, et cetera.

MR. CASTO: Wait a minute. Now, who am I talking to? Is this NARAC?

MR. BIEHL: This Bill Biehl (Phonetic) at Net Ops.

MR. CASTO: Oh, okay. Well, we had NARAC on the phone.

MR. BIEHL: Oh, okay.

MR. CASTO: And they've -- I'm sorry, I thought that's who you were. We have -- they have all the good stuff. That's who was promising that.

MR. BIEHL: Oh, well, that (inaudible).

MR. CASTO: All right. I haven't heard from them in a while. We're just keeping this line open.

MR. BIEHL: Right, yes, we are, too.

1 MR. CASTO: Okay.

2 MR. BIEHL: Just have it on low volume.

3 MR. CASTO: All right. Sorry about that.

4 MR. BIEHL: You want us to call NARAC and
5 have them call in? Do you need information from them?

6 MR. CASTO: I called them a little while
7 ago, and they said they were going to send it, and we
8 just haven't --

9 MR. BIEHL: Okay.

10 MR. CASTO: You know, it's not real
11 critical. We're doing some runs now, so we're just
12 using what we get off Weather Underground, and they'll
13 redo it. They're just looking for source terms. It'll
14 work. Okay, thanks.

15 MR. BIEHL: (Inaudible) at Net Ops, there
16 is some email exchanges here between our Deputy
17 Secretary and your Commissioner, and so they're very
18 happy that we're working this and --

19 MR. CASTO: Yes, we got that feedback,
20 too, on our end.

21 MR. BIEHL: It's okay. I just want to
22 make sure.

23 MR. CASTO: Yes, no, appreciate it.

24 0%9$4!J615365094 (Contains no words to transcribe)

25 0%9$#V7L15365094

1 MR. CASTO: It's Greg Casto.

2 MALE PARTICIPANT: I'm going to write on

3 here "What if?"

4 MR. CASTO: NARAC on the phone?

5 MALE PARTICIPANT: I can just figure it

6 out myself if I want to with the internet.

7 MR. CASTO: Yes, that's true. They said,

8 what is it, Weather Underground has the plant as a

9 site, as a weather site?

10 MALE PARTICIPANT: Oh.

11 MR. CASTO: I'll pull it up in a minute

12 and just use it.

13 MALE PARTICIPANT: So we don't have a

14 (inaudible)?

15 MR. CASTO: No.

16 0%9$(-2_15365094 (Contains no words to transcribe)

17 0%9$(ZKL15365094

18 MALE PARTICIPANT: Winds west at 12 miles

19 per hour, partly cloudy, humidity 38 percent. You'd

20 think the humidity would be higher with a tsunami

21 dumping all that water.

22 0%9$)HN_15365094

23 MALE PARTICIPANT: I think I'll send my

24 boss an email, telling him I got called in.

25 (Inaudible)

1 MR. CASTO: Yes, who is your boss these
2 days?
3 MALE PARTICIPANT: Keith McConnell
4 (Phonetic).
5 MALE PARTICIPANT: Is TA -- oh, shit, I've
6 got to charge it and dial.
7 MALE PARTICIPANT: Is he a Deputy?
8 MALE PARTICIPANT: Yes.
9 MALE PARTICIPANT: Okay.
10 MALE PARTICIPANT: Is he the Deputy to
11 Larry?
12 MALE PARTICIPANT: Yes.
13 MALE PARTICIPANT: Yes, he's a Deputy to
14 Larry. Are they still on the line or not?
15 MR. CASTO: Yes. Well, I yelled for them
16 and didn't hear anybody.
17 MALE PARTICIPANT: I didn't know.
18 MALE PARTICIPANT: Who are you looking
19 for? This is Net Ops.
20 MR. CASTO: Ah, there you are. Yes, we're
21 --
22 MALE PARTICIPANT: Sorry, we had it on low
23 volume.
24 MR. CASTO: Oh, that's all right. We're
25 still looking for met data, and we've got something off

1 of Weather Underground, but we didn't get stability
2 class. I don't know. If you could just read it over
3 the phone, we could plug it into our RSCL run and it
4 might make it a little more realistic.
5 MALE PARTICIPANT: Met -- read what over
6 the phone?
7 MR. CASTO: Wind speed, wind direction,
8 and delta-T or whatever you've got.
9 MALE PARTICIPANT: I'm not sure what -- I
10 don't know that we have a source for the met data.
11 MR. CASTO: Okay.
12 MALE PARTICIPANT: Were you referring to a
13 specific email or something?
14 MR. CASTO: Yes, you guys were going to
15 send us an email and then start sending us hourly
16 updates.
17 MALE PARTICIPANT: Okay. I don't know who
18 promised that, but I've got to --
19 MR. CASTO: Okay.
20 0%9(9S7615365094 (Contains no words to transcribe)
21 0%9(90BL15365094
22 MR. BIEHL: Hey, this is Bill at Net Ops.
23 Is anyone from NARAC on the line?
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Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi Audio File
Protective Measures Team - Day 2

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1 UNITED STATES OF AMERICA

2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI AUDIO FILE

5 PROTECTIVE MEASURES TEAM

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(CONFERENCE CALL INITIATED)

1:45 p.m./1:47 p.m.

0-9^!N5615365094

MS. ROSENBERG: Hello. This is Stacey Rosenberg(phonetic).

MALE PARTICIPANT: Hello, Stacey. This is Mark. I've got somebody on the line from the FAA, and they're wondering about if they should reroute flights because of the plume, and I'm going to transfer them to you. Okay?

MS. ROSENBERG: Okay.

MALE PARTICIPANT: Transferring now.

MS. ROSENBERG: Thank you.

MR. MILLER: Hello?

MS. ROSENBERG: Hi, this is Stacey Rosenberg at the United States Nuclear Regulatory Commission.

MR. MILLER: Hey, how are you?

MS. ROSENBERG: Hi. I'm good. How are you?

MR. MILLER: Good. This is Gary Miller, Headquarters FAA.

MS. ROSENBERG: Okay, hi.

MR. MILLER: Hey. I got a question from one of our centers about this plume cloud and all that.

1 The question that we're having from our center, which
2 is open center. It's about three-fourths of the
3 Pacific Ocean from an air traffic perspective.
4 MS. ROSENBERG: Yes.
5 MR. MILLER: Once the cloud enters -- hold
6 on one second. If an aircraft, a US flag carrier,
7 Northwest, Delta, United, American, Continental, any
8 one of them, fly through that cloud, is there anything
9 that we need to be concerned about? Will the
10 atmosphere, the aircraft as it is continuing to fly to
11 the United States the next 2,500 miles, would it clear
12 everything away from the aircraft, or everything off of
13 the outer shell of the aircraft.
14 MR. WATSON: This is Bruce Watson. First
15 of all, the releases from the Japanese reactor have
16 been very limited, and there's pretty much non-
17 consequential from a -- from a dose or radioactive
18 materials standpoint.
19 And so, there's really no issue at this
20 point with any radioactive cloud to be concerned about.
21 MR. MILLER: Okay. So, what we're going
22 to do is I'm going to tell the centers that are working
23 all these airplanes that a cloud -- an aircraft
24 actually flies through a cloud --
25 MR. WATSON: Well, they won't see it.

1 MR. MILLER: Okay. We've already have
2 diverts around it already. Delta is already diverting
3 around it. That there is no threat to the aircraft,
4 and we can continue normal operations?
5 MR. WATSON: Correct.
6 MR. MILLER: Like we would do on our
7 normal routings across the Pacific, and we have no
8 concerns upon arrival in the United States?
9 MR. WATSON: Right.
10 MR. MILLER: That's what I'll tell them.
11 Thanks a lot. Appreciate it.
12 MR. WATSON: Okay.
13 MR. MILLER: Bye.
14 MR. WATSON: Thank you.
15
16 0%@B$$CL15365094
17 (Contains no words to transcribe)
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25 (CONFERENCE CALL INITIATED)

1:45 p.m./01:46 p.m.

0%@E)M0L15365094

MALE PARTICIPANT: Hello. Mid ops(phonetic).

FEMALE PARTICIPANT: Hey, Dave. It's Kathy again.

MALE PARTICIPANT: Hi, Kathy. How's it going?

FEMALE PARTICIPANT: Good. Hey, we've got IAEA on our bridge line, and we're wondering if you guys want to join in, if you want to call into the bridge?

MALE PARTICIPANT: Yeah, sure (inaudible) number. Like somebody like a Dave Blumenthal(phonetic) to call in, and have a conversation with our executive team?

MALE PARTICIPANT: Definitely. You can give me the phone number. We'll have our leadership call in.

MALE PARTICIPANT: All right. It's (301) --

MALE PARTICIPANT: (301)?

MALE PARTICIPANT: -- 816 --

MALE PARTICIPANT: 816?

MALE PARTICIPANT: 5100.

1 MALE PARTICIPANT: 5100.

2 MALE PARTICIPANT: And that's our

3 operations officers, and just tell them that you want

4 to me -- who you are and that you want to be placed on

5 the executive team bridge, or the executive team that

6 is waiting for your phone call. And I'll go talk to

7 them right now so they'll be expecting it.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: All right, thanks.

10 MALE PARTICIPANT: Sounds good.

11 FEMALE PARTICIPANT: Thank you very much.

12 0%@G))$_15365094

13 MALE PARTICIPANT: This is NRC Ops Center.

14 Anybody on the phone?

15

16 0%@G))$_15365094

17 (Contains no words to transcribe)

18

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25 (CONFERENCE CALL INITIATED)

1:45 p.m./2:01 p.m.

0%9@15EL15365094

MALE PARTICIPANT: (Inaudible) this is Matthew.

MR. CASTO: It's Greg Casto with the NRC.

MALE PARTICIPANT: Yes, sir.

MR. CASTO: How are you?

MALE PARTICIPANT: I'm good. How are you today?

MR. CASTO: Good. We wanted to call and start discussing coordination of our pending scenarios to you.

MALE PARTICIPANT: Okay.

MR. CASTO: You should have received the first one.

MALE PARTICIPANT: Okay. My manager is on the phone right now.

MR. CASTO: Okay.

MALE PARTICIPANT: She probably would've received that. I don't think she's going to be on the phone that much longer.

MR. CASTO: Okay.

MALE PARTICIPANT: (Inaudible) when she's off the phone. It's Brenda (inaudible).

MR. CASTO: Yes, okay.

1 FEMALE PARTICIPANT: Hello. This is
2 Brenda.
3 MR. CASTO: Hi, Brenda. Greg Casto and
4 Lou Brandon(phonetic) here, and a few others on the
5 protective (inaudible).
6 FEMALE PARTICIPANT: Hi, guys.
7 MR. CASTO: We're calling to coordinate
8 with you as we go into the evening. Are you working
9 all night?
10 FEMALE PARTICIPANT: I am.
11 MR. CASTO: Okay. Lucky you.
12 FEMALE PARTICIPANT: Lucky me. We did
13 receive the source terms from you guys at about 8:00
14 our time, or so.
15 MR. CASTO: Okay, that source term in
16 perspective is just a normal coolant (inaudible). So,
17 you're not going to see much impact on that, Brenda.
18 FEMALE PARTICIPANT: Oh, I would expect
19 not.
20 MR. CASTO: So, we have two otehr
21 scenarios that we've run that progressively get worse,
22 and then they're asking us now to try and potentially
23 model a PMI scenario.
24 FEMALE PARTICIPANT: Okay.
25 MR. CASTO: All of this stuff is just

speculative. So, we can send it to you, just for perspective, and so that you can prepare and run these runs.

FEMALE PARTICIPANT: Yes, it takes me a long -- there's a lot of nuclides and a lot of time varying stuff in there. So, it's going to take me a while to run all these.

MR. CASTO: Are you doing it yourself --

FEMALE PARTICIPANT: Yes.

MR. CASTO: -- through the night?

MS. BROCK: This is Kathy Brock(phonetic). What's a while? Two hours? I don't have a perspective?

FEMALE PARTICIPANT: For that many nuclides, it could take 45 minutes for me to run one of those.

MS. BROCK: Okay, just good to know. Thank you.

MR. CASTO: If we send you a CSV(phonetic) source term file, can you automatically import that, or --

FEMALE PARTICIPANT: If it's in the -- if it's the rascal(phonetic) CSV format, yes. I don't have to type it in. I can import it.

MR. CASTO: All right. So, we sent that

1 on the first occasion and will continue to do that.
2 So, that'll make your life easier.
3 FEMALE PARTICIPANT: It will. Just make
4 sure I understand the time that was on it. Usually you
5 guys are running local time out of rascal, but that
6 didn't look like local time.
7 MR. CASTO: Good observation.
8 MALE PARTICIPANT: We're using
9 UTC(phonetic).
10 FEMALE PARTICIPANT: Okay, good. I just
11 wanted to make sure.
12 MR. CASTO: I'm not sure that's good
13 because rascal will use the met data depending on time
14 of day. So, we should correct that. But when you get
15 it, you're not using our met data anyway. You're going
16 to use --
17 FEMALE PARTICIPANT: Right. I'm using my
18 met, but I just need to make sure I'm getting the
19 timing right when I get it from you guys. So, just
20 make a -- make a point in an email or whatever if you
21 guys switch back to local Japan time. Make sure I get
22 that.
23 MR. CASTO: Okay, so what -- what's the
24 difference between you and local Japan time?
25 FEMALE PARTICIPANT: Well, I'm going to

1 run it in UTC.

2 MR. CASTO: Okay.

3 FEMALE PARTICIPANT: So, if you give me

4 local Japan time, I can -- I can convert. I just need

5 to know what it is.

6 MALE PARTICIPANT: With rascal, we should

7 run it local time, their local time.

8 MR. CASTO: Japan's local time. Because

9 rascal adopts whatever met we put in. And this may not

10 effect you, Brenda, but whatever met we put in, rascal

11 will adapt that to the time of day. So, we should

12 always use site time in a rascal run to get a

13 representative rascal run. We're going to compare it

14 against narax(phonetic) if they're using (inaudible)

15 with Japan's met and Japan's time.

16 So, compared to purposes, we should

17 correct that on our end.

18 MALE PARTICIPANT: Okay.

19 MR. CASTO: And then I think that won't

20 affect you so much, Brenda.

21 FEMALE PARTICIPANT: Okay, yes. For me,

22 as long as the -- I have the right time to match up

23 with my met, I'm good.

24 MR. CASTO: Right time for what?

25 FEMALE PARTICIPANT: As long as I'm -- as

1 long as it is apparent to me what time, whether it's
2 UTC or Japan time, that you're starting, I will convert
3 that time to synchronize it with the met that I have.
4 Yes.
5 MR. CASTO: So, your report reflects the
6 same time as the rascal time.
7 FEMALE PARTICIPANT: Yes.
8 MR. CASTO: That'll help a lot as we
9 compare and contrast as we go forward. So, we're going
10 to work through these in the next few hours, and then I
11 understand there's going to be a briefing to the White
12 House early in the morning, using DOE and potentially
13 NRC products.
14 FEMALE PARTICIPANT: Okay.
15 MR. CASTO: We're supposed to contact Dave
16 Bowman. I don't know if you've been talking to him or
17 not. Is he working tonight?
18 FEMALE PARTICIPANT: I don't know if he's
19 working tonight. We've meet talking to the -- his DOE
20 (inaudible) guys.
21 MALE PARTICIPANT: I talked to Dan
22 Blumenthal at DOE just a little while ago, and he is
23 getting ready to turn over to Dave.
24 FEMALE PARTICIPANT: Okay.
25 MALE PARTICIPANT: So, we were going to --

1 after we got off, we were going to make this call.

2 MR. CASTO: Okay.

3 MALE PARTICIPANT: After we got off this

4 call, we were going to make that call.

5 FEMALE PARTICIPANT: Okay.

6 MALE PARTICIPANT: And do a turnover, and

7 we've got -- earlier on, we were using the bridge.

8 FEMALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: And we had the bridge

10 phone number, and that seemed to work well for a while

11 as far as getting everybody together. But then we left

12 it on, and after a while people I think got tired and -

13 -

14 FEMALE PARTICIPANT: Did you want

15 (inaudible) again?

16 MALE PARTICIPANT: But we could start it

17 up again if that would --

18 FEMALE PARTICIPANT: That's fine for me.

19 I'd be happy to have it here and have it called in on

20 one of the phones.

21 MALE PARTICIPANT: Yes.

22 FEMALE PARTICIPANT: So, that's fine.

23 MALE PARTICIPANT: I'll work with Jim. He

24 can man the bridge line.

25 FEMALE PARTICIPANT: What time is that

1 briefing in the morning? It gives me a perspective of
2 how long we've got to work all this out?
3 MALE PARTICIPANT: So I don't have a
4 specific time written down. It seems like it's
5 reasonably early, but I'm not sure what's reasonable
6 early. 8:00, maybe 9:00. But we'll find out.
7 FEMALE PARTICIPANT: Okay.
8 MR. CASTO: Okay.
9 FEMALE PARTICIPANT: Can you think of
10 anything else?
11 MR. CASTO: Anything else you need from
12 us, Brenda?
13 FEMALE PARTICIPANT: No. Just if you send
14 me other source terms, just prioritize them. That
15 takes me a long time to run. So, if you send me a --
16 more than one at a time, just make sure I know which
17 one you're more interested in seeing.
18 MR. CASTO: Okay. And then when you -- as
19 you finish those, you'll post them to the
20 NAREC(phonetic) web?
21 FEMALE PARTICIPANT: I will post them to
22 the web and make sure you guys in DOE can see them.
23 MALE PARTICIPANT: And how will we know
24 that they're in there? Should I --
25 FEMALE PARTICIPANT: If you give me a

1 number, I will call you. Or if you've got the bridge
2 line up, I'll let you know that way.
3 FEMALE PARTICIPANT: Yes, just holler
4 because there's someone here.
5 MALE PARTICIPANT: That'll work. Do we
6 need any back up NARAC accounts for anybody besides
7 myself to see these results? No.
8 FEMALE PARTICIPANT: I've never gone into
9 it.
10 MALE PARTICIPANT: Okay, all right.
11 FEMALE PARTICIPANT: I can always send an
12 email if I need to also.
13 MALE PARTICIPANT: Okay.
14 MALE PARTICIPANT: Okay.
15 MALE PARTICIPANT: I just came on shift.
16 Stuff that goes to the PMT, I just (inaudible) PM201.
17 I don't know what email account --
18 MALE PARTICIPANT: (inaudible).
19 MALE PARTICIPANT: Okay -- actively with
20 what just came in, and I didn't know if you guys wanted
21 to see it or not.
22 MALE PARTICIPANT: We'll take a look, but
23 I think we might need a password on that. Did you talk
24 to somebody, or --
25 MALE PARTICIPANT: No, it just arrived.

1 FEMALE PARTICIPANT: Let's let Brenda off
2 the hook.
3 MALE PARTICIPANT: Okay, Brenda. If you
4 need any -- sorry. Do you need anything else from us?
5 FEMALE PARTICIPANT: I don't think so. Do
6 I need a phone number to be able to contact you guys,
7 or is it a --
8 FEMALE PARTICIPANT: The bridge number.
9 MALE PARTICIPANT: Bridge number or who
10 number?
11 MALE PARTICIPANT: Yes. Now, the who
12 number --
13 MALE PARTICIPANT: We got a direct line
14 also.
15 MALE PARTICIPANT: Okay, Lou knows these
16 things. Here's a direct line to -- let's see.
17 Protective measures, this'll ring that phone right over
18 there. It's (301) 816-5184, Brenda.
19 FEMALE PARTICIPANT: Okay.
20 MALE PARTICIPANT: And if that doesn't
21 work, call 5100 and they can connect you to us back
22 here.
23 FEMALE PARTICIPANT: Okay.
24 MALE PARTICIPANT: And you want us to go
25 ahead and set up the bridge line, or do you want us to

1 call you back when we do it? Because we still have to
2 call DOE.
3 FEMALE PARTICIPANT: Oh, why don't you
4 just give me a call or send me an email when you do it,
5 and I'll call in.
6 MALE PARTICIPANT: Okay. Will do.
7 FEMALE PARTICIPANT: Okay?
8 MALE PARTICIPANT: OKAY.
9 FEMALE PARTICIPANT: Thank you.
10 FEMALE PARTICIPANT: All right, thanks,
11 guys.
12 MALE PARTICIPANT: All right.
13 FEMALE PARTICIPANT: Bye-bye.
14 MALE PARTICIPANT: Has Dan already left?
15 MR. YOUNG: He has. He has.
16 MR. CASTO: So you are his turnover. And
17 this is Greg Casto at the NRC ops center.
18 MR. YOUNG: Hey, Greg. How's it going?
19 MR. CASTO: (Inaudible) speak up.
20 MR. YOUNG: This is Dave Young, sorry.
21 MR. CASTO: Oh, Dave Young. So, are you
22 Dan's turnover?
23 MR. YOUNG: I am. I am. How can I help?
24 Sorry.
25 MR. CASTO: Okay, okay.

1 FEMALE PARTICIPANT: We're just doing
2 turnover here. This is Kathy Brock, and we wanted to
3 connect with you guys as we turned over, and share
4 where we're going.
5 MR. CASTO: Okay, I guess first and
6 foremost, what we were coordinating to do was to put
7 together some hypothetical source terms on rascal, and
8 provide to NARAC for them to do the IMAC(phonetic)
9 runs.
10 MR. YOUNG: Yes.
11 MR. CASTO: We have sent them the first
12 ones, which was similar to earlier actual plant
13 conditions, as well as we could tell, where they were
14 doing the -- the vending release or the vendor's
15 releases.
16 MR. YOUNG: Yes.
17 MR. CASTO: And we have sent that one to
18 them. We are in the process of getting ready to send
19 several other scenarios that we have discussed earlier,
20 which was ten percent gap activity release that was
21 filtered and through the plant stack. Then a ten
22 percent gap release that is unfiltered as ground level
23 relief, and then a final more (inaudible) scenario type
24 event, and uncontrolled relief.
25 MR. YOUNG: Okay.

1 MR. CASTO: So, we're workign on those
2 now, and -- and very shortly, we'll send those to NARAC
3 so they can -- so they can run their models. And we've
4 talked to Brenda --
5 MALE PARTICIPANT: Obant(phonetic).
6 MR. CASTO: -- Obant, yes. We just got
7 off the phone with her. So, we're coordinated on that
8 end.
9 MR. YOUNG: Great.
10 MR. CASTO: We were going to turn the --
11 or get back on the bridge line.
12 MR. YOUNG: We can set one up in a few
13 minutes if we want to get NARAC and you guys on there,
14 just to --
15 MR. CASTO: Okay. We had an earlier one.
16 I guess it's still -- I don't know. I guess it's
17 still up.
18 MR. YOUNG: What number do you guys have
19 for that?
20 MR. CASTO: We have --
21 MR. YOUNG: 245-2099?
22 MR. CASTO: Yes, and then the PIN number
23 was (b)(6)
24 MR. YOUNG: (b)(6)
25 MR. CASTO: (b)(6) is correct.

1 MR. YOUNG: Okay. If we can, can we do
2 one at the top of the hour? We're on another
3 conference call right now, but can we --
4 MR. CASTO: Sure.
5 MR. YOUNG: -- get on the bridge line at
6 the top of the hour?
7 MR. CASTO: Okay.
8 MR. YOUNG: Okay.
9 MR. CASTO: I'll talk to NARAc and make
10 sure they know about the conference call we'll set up.
11 MR. YOUNG: Okay.
12 MR. CASTO: 2,400.
13 MR. BRANDON: Hey, Dave. This is Lou
14 Brandon.
15 MR. YOUNG: Hey, Lou. How's it going?
16 MR. BRANDON: Pretty good. Are you
17 working with Dave Bowman there?
18 MR. YOUNG: Yeah, Dave Bowman's here
19 actually. Yes.
20 MR. BRANDON: Okay, so we're supposed to
21 coordinate with him some time before the morning brief
22 to the White House.
23 MR. YOUNG: Can I have him call you a
24 little bit later?
25 MR. BRANDON: Way later, yes.

1 MR. YOUNG: He'll probably be on the
2 conference call for NARAC call if you want to talk to
3 him then.
4 MR. BRANDON: OKAY.
5 MALE PARTICIPANT: Now, you don't have a
6 time for that meeting tomorrow morning do you?
7 MALE PARTICIPANT: Can you hold on, guys?
8 (Inaudible) wants to talk to Brandon.
9 MR. BOWMAN: Hi. This is Dave Bowman.
10 MR. BRANDON: Hi. This is Lou Brandon at
11 the NRC and we have Greg Casto and Kathy Brock.
12 MR. BOWMAN: How you doing?
13 MR. BRANDON: Doing pretty good. You
14 working all night, Dave?
15 MR. BOWMAN: Yes, to make up for working
16 all day.
17 MR. BRANDON: Good idea. All right, well,
18 we're in the process of genning up some rascal runs to
19 characterize a number of scenarios to send to NARAC and
20 they're all hypothetical. We'll try and put things in
21 perspective, and then I understand there's supposed to
22 be some high level briefing to put our heads together
23 tomorrow morning.
24 MR. BOWMAN: Yes, there's supposed to be
25 some deputy committee meeting. I don't know what time

1 it is, but that's what we were tasked to prepare for
2 our administrator, so.
3 MS. BROCK: If you find out the time, let
4 us know.
5 MR. BOWMAN: All right. Will do. Thanks.
6 MR. BRANDON: All right, until then, we'll
7 work forward and prepare some runs.
8 MR. BOWMAN: Okay, so I heard Dave is
9 setting up a conference call so that we can get NARAC
10 on and discuss this?
11 MR. BRANDON: Right. We had a bridge
12 earlier, and wel'l reestablish it.
13 MALE PARTICIPANT: You said top of the
14 hour, which is 1:00. We just talked to NARAC and I
15 don't think we need to talk to them again.
16 MS. BROCK: Yes, we don't necessarily need
17 a conference call. We just wanted an open bridge.
18 MR. BOWMAN: Oh, I see. Okay.
19 MS. BROCK: Does that work for you guys?
20 MR. BOWMAN: He's going to let NARAC know.
21 MS. BROCK: Great.
22 MR. BRANDON: Hey, Dave, do you know if
23 anybody's talking to Japan, getting data from what's
24 going on?
25 MR. BOWMAN: Well, so, I was over at the

1 USA folks over at State Department and (b)(5)

2 (b)(5)

3

4 MS. BROCK: You said (inaudible) is there,

5 so he would've been able to --

6 MALE PARTICIPANT: Right.

7 MR. BRANDON: Okay, that's helpful.

8 MR. BOWMAN: So, unfortunately the answer

9 is no.

10 MS. BROCK: Okay, it confirms our no.

11 MR. BRANDON: All right, anything else we

12 should know as we go forward here?

13 MR. BOWMAN: No, not from our side. We're

14 -- I mean we're on a conference call now, the other

15 call I just dropped off of with US Embassy.

16 Apparently, there was -- there were some workers at one

17 of the plants that were shut down that think they

18 might've gotten contaminated.

19 MALE PARTICIPANT: Slghtly or greatly?

20 MR. BOWMAN: Slightly. They're talking

21 about like when they were in an area that was I guess

22 contaminated, and there was some -- when the earthquake

23 hit, there was some dust that they think they might've

24 inhaled. I have no idea why they weren't wearing

25 breathing protection, but anyway they were not in

1 either number 1 or number 2. They were in reactor
2 number 4, which was shut down at the time.
3 MALE PARTICIPANT: Interesting. That's
4 not all that unusual for that kind of situation. All
5 right, we're going to go to work here. MS.
6 BROCK: All right, and Dave, I need -- my name is Kathy
7 Brock, and I'm turning over with Greg Casto. So,
8 Greg's going to go home.
9 MR. CASTO: Yes, okay.
10 MS. BROCK: Thanks a lot.
11 MR. BOWMAN: Okay, thanks.
12 MR. BRANDON: Talk to you next time, Dave.
13 Thank you.
14 0-95IROK15365094 (Contains no words to transcribe.)
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1 (CONFERENCE CALL INITIATED)

2 1:46 p.m./1:52 p.m.

3 0-957-FL15365904

4 MS. BROCK: Kathryn Brock, NRC.

5 MALE PARTICIPANT: This is interesting

6 because we get this thing from Noah(phonetic).

7 MS. BROCK: Hey, there.

8 MALE PARTICIPANT: And they have a number.

9 MS. BROCK: Is anyone there?

10 FEMALE PARTICIPANT: Yes, yes.

11 MALE PARTICIPANT: (Inaudible) from DOE,

12 and we have Brenda (inaudible) from Malax(phonetic).

13 MS. BROCK: Okay, great. I understand you

14 have some questions for us, Brenda.

15 FEMALE PARTICIPANT: Oh, no. I would just

16 -- like we talked, the run taht you guys sent us is

17 actually taking me even longer to turn than I thought

18 it was going to. So, when we do find the one that we

19 really want to use for this briefing, we definitely

20 want to do that one.

21 MS. BROCK: Okay. Hey, Steve, when do you

22 think we'll be able to send them over to her?

23 MALE PARTICIPANT: I think -- I'm guessing

24 about 15 minutes.

25 FEMALE PARTICIPANT: Okay. So, what I'm

1 going to do is fill the other one because it's plugging
2 away and there's no point.
3 MALE PARTICIPANT: Okay.
4 FEMALE PARTICIPANT: Part of it is the
5 number of nuclides. There's like 70 in there. If it's
6 possible to look at the source term and -- I mean I
7 could do it too, but it may make more sense for you to
8 do it to figure out if you need all 70, or is there --
9 you know.
10 MALE PARTICIPANT: Okay.
11 FEMALE PARTICIPANT: Or is there
12 (inaudible) do most of the job.
13 MS. BROCK: Okay. We'll look at that.
14 Very good. Okay.
15 FEMALE PARTICIPANT: WE don't have any
16 questions for you guys right now.
17 MALE PARTICIPANT: Okay.
18 FEMALE PARTICIPANT: I think we're good.
19 MS. BROCK: I think I had asked you guys,
20 or I had asked Dave, what time is his briefing? We're
21 trying to get (inaudible) ready for the morning.
22 FEMALE PARTICIPANT: I was just asking our
23 management, and they didn't know, but they figured
24 after the turnover. So, probably not before 8:00.
25 MS. BROCK: Right.

1 MALE PARTICIPANT: I don't know
2 (inaudible) briefing, but we want (inaudible)
3 Administrator D'Agostino. I believe he'll get called
4 in by White House, maybe in the middle of the night.
5 So, if we can have that ready as soon as possible for
6 him.
7 FEMALE PARTICIPANT: All right, we'll
8 scramble. All right, so D'Agostino is getting called
9 in. Okay.
10 MS. BROCK: Very good. Well, thank you.
11 MALE PARTICIPANT: Can you guys hold on?
12 (Inaudible) has a question.
13 MALE PARTICIPANT: We're getting some
14 information -- we have an office in Tokyo. I just
15 wanted to make sure you guys had heard this. Theyr'e
16 reporting that the cooling water is below the level of
17 the fuel at the reactor of concern.
18 FEMALE PARTICIPANT: Okay.
19 MALE PARTICIPANT: Which reactor, Dave?
20 FEMALE PARTICIPANT: Which unit?
21 MALE PARTICIPANT: Number 1 that's having
22 the issues.
23 FEMALE PARTICIPANT: Okay.
24 MALE PARTICIPANT: Okay, I just didn't
25 know if you'd heard that.

1 FEMALE PARTICIPANT: No, we haven't.

2 MALE PARTICIPANT: How far below?

3 MALE PARTICIPANT: 50 centimeters?

4 Something like that?

5 MALE PARTICIPANT: 50 centimeters?

6 MALE PARTICIPANT: Yes, I'll ask if I can

7 share this email with you. If I can't, I'll give you

8 the information verbally.

9 MS. BROCK: Okay.

10 MALE PARTICIPANT: Hold on one second;

11 let me verify the number.

12 MS. BROCK: So, this would be in the

13 scenario. You want the --

14 MALE PARTICIPANT: Some time in Japan,

15 they have --

16 FEMALE PARTICIPANT: Okay. So, Brenda

17 will know that?

18 MS. BROCK: Brenda can (inaudible). Okay,

19 we're hanging on for (inaudible) but Brenda, are you

20 still there?

21 FEMALE PARTICIPANT: Yes.

22 MS. BROCK: Okay, so we have a question

23 for you about what's the current met in a 6 to 12 hour

24 forecast in Japan.

25 FEMALE PARTICIPANT: Let me take a look.

1 I mean the winds honestly are -- have -- are going to
2 continue to be offshore. So, we're not going to have a
3 problem with wind blowing onshore at all. Do you want
4 me to send you -- send you some winds again?
5 MS. BROCK: Sure.
6 MALE PARTICIPANT: Yes, if you can just
7 respond to that email that we sent. The same email
8 address that we sent to NARAC.
9 FEMALE PARTICIPANT: Okay. What time is
10 it starting? At current time?
11 MS. BROCK: Yes.
12 MALE PARTICIPANT: Yes, and then maybe 6
13 hours our and 12 hours out forecast.
14 FEMALE PARTICIPANT: Okay.
15 MALE PARTICIPANT: Thanks. Okay, and then
16 if Dave needs -- hello?
17 FEMALE PARTICIPANT: Hello.
18 MALE PARTICIPANT: All right, the
19 (inaudible) we have is that the coolant is 50
20 centimeters lower than the top of the fuel rod.
21 MS. BROCK: Okay, well, thank you.
22 Anything else?
23 MALE PARTICIPANT: That was as of right
24 now, Dave?
25 MS. BROCK: Well, you just got the --

1 there was an email?

2 MALE PARTICIPANT: Yes, it is. I have no

3 idea. It went to like a distribution in DOE, and then

4 they sent it onto mid ops. So, I mean it's probably I

5 would guess like an hour out of date, or an hour or two

6 anyway.

7 MS. BROCK: All right, thank you. All

8 right, so are we done? Brenda is going to do the

9 current met, and we're going to work on our runs.

10 MALE PARTICIPANT: All right.

11 MS. BROCK: Okay.

12

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1 (CONFERENCE CALL INITIATED)

2 1:46 p.m./2:04 p.m.

3 0-95YGE-15365094

4 MALE PARTICIPANT: NRC.

5 MALE PARTICIPANT: Hey, Jeff, this is Pete

6 Snyder. I got Oliver on the line, and I'm going to

7 connect them now. Is that okay? Jeff?

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: Okay, I'm going to

10 connect him. Hold on. Oliver, you on?

11 MALE PARTICIPANT: Yes, I am.

12 MALE PARTICIPANT: All right. If you

13 could, just hold on for a minute. Let me collect

14 folks. I'll be back in about, say, a minute.

15 MALE PARTICIPANT: Okay.

16 0-96$6L615365094

17 MS. BROCK: Hi. This is Kathryn Brock.

18 How can I help you?

19 MALE PARTICIPANT: Hello?

20 MALE PARTICIPANT: Hey, Oliver. Can you

21 hear us okay?

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: So, I'm here with

24 (inaudible) who is more in the access hub(phonetic).

25 MS. BROCK: Hi, there.

1 MALE PARTICIPANT: All right, we got
2 people (inaudible) from the Protective Measures end.
3 Do we need to have somebody from a reactor side to
4 answer any questions? Are you there? Can you hear us?
5 MS. BROCK: I think he said yes.
6 MALE PARTICIPANT: Yes, yes, yes.
7 MS. BROCK: Okay, we're getting somebody.
8 MALE PARTICIPANT: Okay, so I think you've
9 got quite the same information than us; that it seems
10 that the reactor 1 has (inaudible) rupturing.
11 MS. BROCK: Yes.
12 MALE PARTICIPANT: For some parts, and
13 maybe for some time. We also have some information
14 coming from the operator, saying that the -- it's hard
15 to put more water in it. But for us, that's it.
16 MALE PARTICIPANT: We don't have that much more
17 than you have.
18 MALE PARTICIPANT: Okay.
19 MALE PARTICIPANT: (b)(5)
20 (b)(5)
21
22 MS. BROCK: Really nothing concrete.
23 MALE PARTICIPANT: (Inaudible) what we
24 have to do is provide information to our ministry. In
25 fact, we have no (inaudible) of the containment

1 (inaudible) of such a nuclear (inaudible).

2 MS. BROCK: We don't have that

3 information, either.

4 MALE PARTICIPANT: Okay, you don't have.

5 MALE PARTICIPANT: (b)(6)

6 (b)(6)

7 MALE PARTICIPANT: Yes, yes. We are

8 (inaudible) authority here to help them, and (b)(6)

9 (b)(6)

10 MALE PARTICIPANT: But our idea would be

11 to anticipate (inaudible) urgency from the institution

12 (inaudible) we are sure that --

13 MS. BROCK: Yes, I think we're in the same

14 boat. All we can do is kind of think and speculate,

15 but we don't have any more information.

16 MALE PARTICIPANT: Okay, and what is your

17 scenario from --

18 MS. BROCK: No, we don't have any.

19 MALE PARTICIPANT: Do you have one?

20 MS. BROCK: No.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: We really don't want to

23 give out speculation until we have some tangible data

24 to report. We really don't want to --

25 MALE PARTICIPANT: Okay, that's good.

1 MS. BROCK: So, we've been watching CNN.

2 MALE PARTICIPANT: All right, you have no

3 contact at all with a Japanese (inaudible) over there?

4 MS. BROCK: No.

5 MALE PARTICIPANT: You have to have more

6 reliable information.

7 MS. BROCK: None. I'm sorry.

8 MALE PARTICIPANT: (b)(5)

9 (b)(5)

10

11 MALE PARTICIPANT: (Inaudible).

12 MS. BROCK: Could you repeat that, please?

13 MALE PARTICIPANT: (Inaudible) we have no

14 idea, but it's important from your side. We can't say

15 (inaudible) nothing about the containment. So, I think

16 we can understand it, but about the dumping systems and

17 that kind of reactors, and the -- the filters, what is

18 your feeling about that?

19 MS. BROCK: We don't have any -- any

20 concrete thoughts on that at all.

21 MALE PARTICIPANT: Okay.

22 MS. BROCK: I'm sorry that we're not very

23 helpful, but we're in the same --

24 MALE PARTICIPANT: I mean we can

25 understand that, but it's very different to work with

1 new information, new reliable information, to --

2 MS. BROCK: Right.

3 MALE PARTICIPANT: -- start thinking about

4 (inaudible) or whatever. I mean if you have this

5 position, it is understandable, and we have the same

6 here. So, that's fine for us.

7 MS. BROCK: That's right.

8 MALE PARTICIPANT: So, maybe the thing is

9 the -- if you have some reliable information, can you

10 call us back to discuss it?

11 MS. BROCK: Of course we can.

12 MALE PARTICIPANT: I mean the idea is

13 maybe to -- to read together some reliable information

14 that we can work on.

15 MS. BROCK: Sure. We would be happy to

16 share it. We'll share any facts we have.

17 MALE PARTICIPANT: Okay.

18 MS. BROCK: But as far as speculation, we

19 don't want to talk --

20 MALE PARTICIPANT: Maybe the next hour, or

21 maybe the next day. It seems to be very difficult to -

22 -

23 MS. BROCK: Okay, say that again?

24 MALE PARTICIPANT: I'm just saying that my

25 feeling is that for the next hours, maybe next day, it

1 will be difficult to have any information coming from
2 Japan.
3 MS. BROCK: Yes, I agree with you on that.
4 I agree, but I think -- do we have your contact
5 information?
6 MALE PARTICIPANT: We provided by email a
7 line, a land line, to be able to call us back if
8 necessary.
9 MS. BROCK: Okay, that would be fine. And
10 then you know how to get a hold of us, too.
11 MALE PARTICIPANT: Yes, yes. Right. So,
12 we've got the number. Okay.
13 MS. BROCK: Well, good luck.
14 MALE PARTICIPANT: I think that's it.
15 MS. BROCK: I think that is too.
16 MALE PARTICIPANT: For the moment.
17 MS. BROCK: Yes.
18 MALE PARTICIPANT: Okay.
19 MS. BROCK: Good luck. Thank you for
20 calling.
21 MALE PARTICIPANT: Bye.
22
23 0-96--(L15365094 (No words to transcribe.)
24 0-96-]0-15365094 (No words to transcribe.)
25 0-96-16L15365094 (No words to transcribe.)

0-96D-7-15365094

MS. BROCK: Kathryn Brock.

MALE PARTICIPANT: Hi, Kathy. This is the operations center ops officer. I just sent an email to PMT 2 that said to forward to you guys.

MS. BROCK: Thank you.

MALE PARTICIPANT: All right, bye.

MS. BROCK: Bye.

0-96--G-15365094 (No words to transcribe.)

0-99GT!-15365094

MS. POBANZ: This is Brenda.

MS. BROCK: Hey, Brenda. It's Kathy Brock from NRC.

MS. POBANZ: Hello.

MS. BROCK: How are you doing?

MS. POBANZ: Pretty good.

MS. BROCK: Good. Hey, it took us a while, but we did it. We're just finishing up an email to send you the file.

MS. POBANZ: Okay.

MS. BROCK: Steve went through, and he got some -- some nuclides for you. So, hopefully it'll be --

MS. POBANZ: It'll be quicker?

MS. BROCK: -- quicker. Do you have any

1 other details that you want to give, Steve?

2 MALE PARTICIPANT: You'll see most of the

3 information on the printouts when you get them.

4 Understand that the lack of definitive information

5 we're doing a wild amount of speculating.

6 MS. POBANZ: Yes.

7 MALE PARTICIPANT: We think we have a

8 reasonable case. We've discussed it with the executive

9 team. They gave us concurrent (inaudible). So, we

10 have buy in at this end.

11 MS. POBANZ: Okay.

12 MALE PARTICIPANT: We're assuming ten

13 percent core melt, but we're assuming the containment

14 is in tact, which we have heard nothing to indicate

15 that it isn't.

16 MS. POBANZ: Right.

17 MALE PARTICIPANT: However, because

18 there's no AC power, there's also no fans to run

19 ventilation systems, and therefore we're not assuming

20 an elevated release, a ground level release.

21 MS. POBANZ: Okay.

22 MALE PARTICIPANT: I think that's really

23 all. We put a list of the nuclides on it, on your --

24 on the email.

25 MS. POBANZ: Okay.

1 MALE PARTICIPANT: We have it down to 18.
2 MS. POBANZ: Oh, awesome.
3 MALE PARTICIPANT: I dropped all the beta
4 emitters.
5 MS. POBANZ: I mean really, there's the
6 CVM's(phonetic), iodines. You know there's the biggies
7 in there.
8 MALE PARTICIPANT: That's exactly what we
9 gave you: CVM, barium 140, lanthanum 140, thorium 132,
10 the precursor iodine, and xenon.
11 MS. POBANZ: Okay, yes.
12 MR. BRANDON: Hey, Brenda. This is Lou.
13 Did you work all day today?
14 MS. POBANZ: Yes.
15 MR. BRANDON: How you holding up?
16 MS. POBANZ: So far, I'm doing okay. I
17 have a lot of Dr. Pepper.
18 MS. BROCK: I have one too, but it says on
19 it caffeine free.
20 MS. POBANZ: Oh, that's terrible. That's
21 a travesty.
22 MR. BRANDON: All right.
23 MS. POBANZ: So, when you send me this,
24 the release is starting when? Because we have no
25 release yet, right? So, is it starting current time.

1 MR. BRANDON: We got some information from
2 Dave Bowman that 12 -- it was 1:25 our time, and he
3 said it was probably about an hour fold(phonetic) that
4 the floor had been uncovered down to 50 centimeters
5 below the top.
6 MS. POBANZ: Right.
7 MR. BRANDON: So, we put in a core melt
8 time of 12:25 eastern time, which would've been 14:25
9 Japan time. Everything is Japan time in that file.
10 MS. POBANZ: Okay.
11 MR. BRANDON: And so, the release will
12 start after that.
13 MS. POBANZ: Okay.
14 MR. BRANDON: It's a 13-hour duration.
15 MS. POBANZ: Okay, I will look for it.
16 MS. BROCK: Question for you, though.
17 MS. POBANZ: Yes?
18 MS. BROCK: Did you have any other updated
19 met?
20 MS. POBANZ: Not really.
21 MS. BROCK: What direction in the wind
22 going?
23 MS. POBANZ: It's from the west.
24 MS. BROCK: From the west?
25 MS. POBANZ: I mean the west to the

1 southwest, yes.

2 MS. BROCK: From west, okay.

3 MALE PARTICIPANT: Yes, we've got the met

4 data right over here.

5 MS. BROCK: Oh, okay. If we've got it,

6 that's cool. Excellent.

7 MS. POBANZ: All right, I saw the email

8 just pop up.

9 MS. BROCK: All right, thanks.

10 MR. BRANDON: Okay.

11 MS. POBANZ: I'll get to work, and let you

12 know when I'm there.

13 MS. BROCK: All right.

14 MS. POBANZ: Alrighty, thanks.

15 MS. BROCK: Bye-bye.

16

17

18

19

20

21

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24

25 (CONFERENCE CALL INITIATED)

1:45 p.m./1:48 p.m.

0-99Q07-15365094

MS. BROCK: Is this Dave Young?

MR. YOUNG: Yes.

MS. BROCK: Hey, Kathy Brock calling from NRC.

MR. YOUNG: Hey, Kathy. How's it going?

MS. BROCK: Oh, lovely, lovely. So, I know I asked you about sending that email and you were going to check with your management.

MR. YOUNG: Yes.

MR. BRANDON: My management really wants to see that email. So, if --

MR. YOUNG: Okay, well, I -- right now -- right now, Dave Bowman is on the phone. So, I'm going to wait for him to get off before I ask him.

MS. BROCK: Okay.

MR. YOUNG: Dave knows the short -- I mean I can read it to you.

MR. BRANDON: I know, but -- okay.

MALE PARTICIPANT: Dave, there was a report earlier, much earlier in the night --

MR. YOUNG: Yes.

MALE PARTICIPANT: -- that the tsunami had flattened an engineering building near the reactor.

1 MR. YOUNG: Okay.

2 MALE PARTICIPANT: Could that be a

3 confusion factor?

4 MR. YOUNG: It could be. I mean right

5 now, we're looking at the BBC website, and there's --

6 they're investigating the white smoke.

7 MALE PARTICIPANT: Okay.

8 MR. YOUNG: And it says it's unclear

9 whether or not there was an explosion. So, we're

10 trying to clear that up right now too.

11 MS. BROCK: So, a blast occurred in this

12 white smoke, but -- okay.

13 MALE PARTICIPANT: So, they don't

14 necessarily tie it to the containment.

15 MR. YOUNG: No.

16 MALE PARTICIPANT: What's this comment

17 about there were four buildings?

18 MR. YOUNG: We know more, and we'll try to

19 pass to you what we can.

20 MALE PARTICIPANT: Right. Thank you.

21 MR. YOUNG: That's what we know right now.

22 MS. BROCK: I appreciate it. Thank you.

23 MR. YOUNG: Okay. Sorry, guys.

24 MS. BROCK: That's all right. Bye.

25 MR. YOUNG: Alrighty. Catch you guys

1 later.

1 (CONFERENCE CALL INITIATED)

2 1:45 p.m./1:49 p.m.

3 0-9B-D-615365094

4 MS. POBANZ: NARAC, this is Brenda.

5 MS. BROCK: Hey, Brenda. It's the NRC.

6 MS. POBANZ: Hi, guys.

7 MS. BROCK: How are you doing?

8 MS. POBANZ: So (inaudible) reviewing the

9 document, and we're pretty pleased with it.

10 MS. BROCK: Oh, good.

11 MS. POBANZ: Yes, I think we're -- we're

12 in good shape. It correlates pretty well with what we

13 did.

14 MALE PARTICIPANT: Correlates really well,

15 Brenda. Almost perfectly. The thyroid CDE, we're

16 about a factor of 10 below, compared to the distances

17 that you project.

18 MS. POBANZ: Yes.

19 MALE PARTICIPANT: I think that's

20 acceptable.

21 MS. POBANZ: Yes.

22 MALE PARTICIPANT: So, we would say it's

23 our best product. It's representative of 10 percent,

24 or damaged in the ballpark. But if you've been seeing

25 those pictures of that building exploding --

1 MS. POBANZ: Yes.

2 MALE PARTICIPANT: -- it's probably --
3 there's a lot of skepticism about whether it is
4 representative of the current situation. So, you can
5 share if you want. People can (inaudible) it if
6 necessary.

7 MS. POBANZ: Right.

8 MALE PARTICIPANT: So, we're just saying
9 we QC'd is, and that's how we see it. You can do it as
10 you see fit.

11 MS. POBANZ: Okay, well, I'll let Dave
12 know that you guys have looked at it and feel
13 comfortable with it as it is, and we'll see what they
14 want to do from there.

15 MALE PARTICIPANT: We just have to make
16 sure we get the message. If we release it, we just
17 have to say it's a hypothetical approximately
18 (inaudible) format, which may not be representative of
19 the current start of the --

20 MS. POBANZ: Exactly.

21 MALE PARTICIPANT: Right.

22 MS. POBANZ: Exactly. And there's a lot
23 of wording I think on the plots that I would have to
24 change before it went anywhere, to make sure we had all
25 that spelled out.

1 MALE PARTICIPANT: All right.

2 MS. POBANZ: Well, thank you.

3 MALE PARTICIPANT: We've got a big one.

4 We've got a rascal run already completed that would be

5 a total core melt, 100 percent release in an hour, with

6 the impact that goes out past 60 miles.

7 MS. POBANZ: Okay.

8 MALE PARTICIPANT: (b)(5)

9 (b)(5)

10 MS. POBANZ: (b)(5)

11 (b)(5)

12 MALE PARTICIPANT: Until we get better

13 clarification of what blew up and what's going on.

14 MS. POBANZ: All right.

15 MALE PARTICIPANT: But here's one thing.

16 If you talk to your DOE counterparts, we know you have

17 a liaison over there in Japan, and that guy should be

18 informed about any field readings that they're getting.

19 MS. POBANZ: Okay.

20 MALE PARTICIPANT: That's the real key

21 right now. Because then radioactivity contamination

22 release they should be measuring it --

23 MS. POBANZ: Well, yes, because we've been

24 seeing some escalating news reports.

25 MALE PARTICIPANT: They should know the

1 answer already.

2 MS. POBANZ: Right.

3 MALE PARTICIPANT: That'll help us

4 characterize the rascal, next rascal run we do.

5 MS. POBANZ: Okay, exactly. I've been

6 seeing the news stories too, and it seems like if they

7 actually had a complete meltdown blow up, people would

8 be talking more. Peopel would be more excited about

9 it, it seems. It would seem.

10 MS. BROCK: Or, we'd have metro

11 measurements.

12 MALE PARTICIPANT: If they all (inaudible)

13 get out.

14 MS. POBANZ: Yes.

15 MALE PARTICIPANT: Who knows? It seems

16 like that information should be immediately available

17 and will help us confirm what's going on.

18 MS. POBANZ: Okay, I will let them know

19 that. Thank you guys.

20 MALE PARTICIPANT: (Inaudible) nice quick

21 run. Appreciate that.

22 MS. POBANZ: Yes, well, I appreciate that.

23 I appreciate you cutting down the number of nuclides

24 for me. That helped out a lot.

25 MALE PARTICIPANT: The CSB file, you can't

1 just pull that right in?

2 MS. POBANZ: I'm sorry?

3 MALE PARTICIPANT: We also sent you the

4 CSB --

5 MS. POBANZ: (b)(5)

6

7 (b)(5)

8

9 MALE PARTICIPANT: So, if you'd kept them

10 all in, wouldn't it be the same?

11 MS. POBANZ: Oh, to run the -- what isn't

12 slow is me putting them in. What's slow is the model

13 running all those nuclides.

14 MALE PARTICIPANT: Okay.

15 MS. POBANZ: Because it does the whole

16 decay chain(phonetic) and end growth thing, and it --

17 it takes a long time.

18 MALE PARTICIPANT: I understand.

19 MS. POBANZ: Yes. So, yes, I don't have

20 to type anything in thankfully.

21 MALE PARTICIPANT: All right, keep up the

22 good work. We'll talk to you soon.

23 MS. POBANZ: All right, thanks guys. Bye,

24 bye.

25

1 CONFERENCE CALL INITIATED

2 1:45 p.m./1:57 p.m.

3 0-9C0R--15365094

4 MS. BROCK: Hi, it's NRC. Sorry I forgot

5 to call in. I told them there's five. They asked me

6 for five.

7 MALE PARTICIPANT: Kathy, we've got

8 (inaudible) operations here, and NARAC is on also.

9 MS. BROCK: Okay, fantastic. So, you've

10 got some questions for us?

11 MALE PARTICIPANT: I wanted to make sure

12 that you guys had reviewed modeling products that

13 Brenda put together. I had a question with how to fill

14 out -- which Brenda may have answered but, to fill --

15 we do a lot of congestion pathway exercises, and I --

16 so, I haven't done any recently, but I used to do them

17 like five and ten years ago.

18 Brenda confirmed that it's actually

19 smaller than what we usually run for a domestic

20 injection pathway exercise. But I don't believe we

21 ever released ten percent of hte core. So, I guess the

22 -- the explanation is it's still in containment

23 somehow, and we're really not releasing ten percent of

24 the core. Is that --

25 MALE PARTICIPANT: Okay, what we -- what

1 we said was is we had ten percent core melt.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: It was then being

4 released at the design leakage or the containment.

5 MALE PARTICIPANT: Okay.

6 MALE PARTICIPANT: Which is 25 percent per

7 day. Twenty-five percent volume, per day.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: So, it's really well

10 contained.

11 MALE PARTICIPANT: So, have you guys

12 reviewed the product? I mean does it look reasonable

13 to you?

14 MALE PARTICIPANT: Yes, we did, and it

15 looks good. We're right on with the teddy(phonetic)

16 and the thyroid, we're about a factor of 10 low, but I

17 think that's -- that's fine.

18 MALE PARTICIPANT: In this particular run,

19 since you brought up the injection pathway, is that we

20 filtered out the radio nuclides we sent Brenda, and her

21 request, and what we sent her were the nuclides that

22 were more predominant for the (inaudible) exposure

23 pathway.

24 So, if you're looking for long-lived, that

25 type of stuff; it wasn't there.

1 MALE PARTICIPANT: Wouldn't make that much
2 difference. Chernobyl will give you the impact --
3 MS. BROCK: Okay.
4 MALE PARTICIPANT: So, are we talking to
5 Dave Bowman here?
6 MS. BROCK: Did we answer the question?
7 MALE PARTICIPANT: Was there a question?
8 I'm sorry I -- oh, yes, the -- you answered it. I just
9 wanted to be sure you were on board. So, we'll --
10 we'll go ahead and deliver this to our administrator.
11 I still don't know what time the deputy's meeting is,
12 but I expect him to come -- you know, he'll be here
13 beforehand to get himself prepared for it.
14 MALE PARTICIPANT: All right. Dave, we
15 did another run, where we tried to model 40 percent
16 core damage, but still with the pretty in tact
17 containment. And in that case, even though you had
18 four times as much damage, it just pushed the impact
19 out about twice as far. Not much.
20 MALE PARTICIPANT: Okay. You got that,
21 Dave? You got that down, 40 percent?
22 MALE PARTICIPANT: Yes.
23 MALE PARTICIPANT: And still within design
24 containment?
25 MALE PARTICIPANT: There is an -- that

1 scenario where it's pretty well contained. It's like a
2 TMI scenario. You dn't get much out of it.
3 MALE PARTICIPANT: Recognizing the caveat
4 that that assumption may not be particularly valid, but
5 we haven't been able to get more definitive information
6 --
7 MALE PARTICIPANT: Yes, after watching
8 that explosion, that situation may have changed
9 drastically.
10 MALE PARTICIPANT: Does anybody at NRC
11 know what building that may have been that exploded?
12 Because we (inaudible) the turbine.
13 MALE PARTICIPANT: A lot of speculation
14 here. We can't quite make sense out of it, but I'll
15 tell you one thing. If it was a reactor vessel that
16 released a lot of the core, we should get field team
17 readings that confirm that, and they should be in place
18 right now. Somebody should be able to report that.
19 MALE PARTICIPANT: (Inaudible) the value
20 of about 100 millirem per hour, measured on the ground.
21 We're not sure where or how that would measure.
22 MS. BROCK: Or when.
23 MALE PARTICIPANT: That's not very
24 characteristic of the entire core being blown around.
25 MS. BROCK: Do you know when that

1 measurement was? After the explosion or before?

2 MALE PARTICIPANT: We don't have anymore

3 information.

4 MS. BROCK: Okay.

5 MALE PARTICIPANT: Yes, when taht data

6 comes in, we need how far out, in what direction, and

7 how much was actually measured. We can (inaudible) if

8 we get that kind of information. Brenda, are you still

9 online?

10 FEMALE PARTICIPANT: Yes, I'm here.

11 MALE PARTICIPANT: Earlier today, we're

12 not too sure where it came from, and I'm wondering if

13 you're at all familiar wit it. Noah ran something

14 called a high split model.

15 FEMALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: And they have a

17 trajectory plot that shows one of the trajectories

18 coming over Alaska.

19 FEMALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: Does your data go out

21 that far?

22 FEMALE PARTICIPANT: We can -- yes, we can

23 track it that far. It takes a few days for it to get

24 that far, but yes.

25 MALE PARTICIPANT: Thank you. That may be

1 all I need to know.

2 MALE PARTICIPANT: It's just a matter of

3 what levels of activity you'll see that far down.

4 FEMALE PARTICIPANT: Do you think you

5 understand the --

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Different altitudes.

8 MALE PARTICIPANT: Different altitudes and

9 different wind speeds, and it's going to take a couple

10 days for it to make that point, and by that time, we

11 should have much better data. It would be premature to

12 do anything for Alaska.

13 FEMALE PARTICIPANT: yes.

14 MALE PARTICIPANT: Oh, yes.

15 MALE PARTICIPANT: Thank you. That helps.

16 FEMALE PARTICIPANT: All right, did we do

17 it for this call?

18 MALE PARTICIPANT: Anything else?

19 MALE PARTICIPANT: I'm just tracking some

20 emails here from Arlene or Chip, and I just also saw

21 Gregory Casto from --

22 MS. BROCK: Yes.

23 MALE PARTICIPANT: Looks like their

24 discussion on email is about doing some modeling for

25 more -- a scenario where there's less or zero

1 containment. I mean --

2 MALE PARTICIPANT: Yes, we did that.
3 We've done that run already, Dave. We have a total
4 fuel melt scenario that was released 100 percent per
5 hour, which is the worst case possible. If that was
6 what exploded, then you blew the reactor core all over
7 the place. You could have fast exceeded beyond 50
8 miles for both the teddy and the thyroid.

9 We don't have a great deal of confidence
10 in it. Until we know more about the reactor, where
11 this explosion occurred.

12 MALE PARTICIPANT: Yes, that's right.
13 We're not anywhere near convinced that that's what
14 happened out there.

15 MALE PARTICIPANT: It's difficult to see
16 from the pictures. You know, there's belief that the
17 turban(phonetic) building, the generators and the buck
18 ducts for the electrical distribution are hydrated and
19 cooled.

20 So, there is a significant ignition source
21 in the turban building. But it's -- the thing that's
22 puzzling when you look at the pictures and the video is
23 in the is that you see three -- three reactor
24 buildings. Where's the fourth one?

25 It doesn't seem, when you look at the

1 pictures, that turban building is behind the reactor
2 building. But you're not seeing the reactor building.
3 MALE PARTICIPANT: So, those field
4 measurements are critical.
5 MALE PARTICIPANT: Right. They should be
6 -- if there's a real concern, there should be
7 measurements in place right now that somebody can
8 report.
9 MALE PARTICIPANT: Okay, so, I'm trying to
10 capture all this. You said the design containment is
11 25 percent per day?
12 MALE PARTICIPANT: That's for this
13 particular US plant that we're using to model the one
14 in Japan. That's our closest US plant that could
15 represent, and it's a little bit higher power. So,
16 what we're projecting in our rascal results are
17 probably 20 percent higher than that reactor would be
18 in Japan.
19 MALE PARTICIPANT: So would it make sense
20 to send us the data (b)(5) so that
21 NARAC has it?
22 MALE PARTICIPANT: WE can share it with
23 you as long as --
24 MALE PARTICIPANT: It doesn't go anywhere.
25 MALE PARTICIPANT: -- you know that it's -

1 - a lot of caveat goes with that thing.

2 MALE PARTICIPANT: It's very speculative.

3 MALE PARTICIPANT: You want us to send it

4 to NARAC?

5 MALE PARTICIPANT: Definitely.

6 MS. BROCK: No problem.

7 MALE PARTICIPANT: All right. It's

8 coming.

9 MS. BROCK: Anything else for us?

10 FEMALE PARTICIPANT: This is Brenda. Do

11 you guys need me to do anything to that report, or is

12 it kosher as it is?

13 MALE PARTICIPANT: We're happy with the

14 report.

15 MALE PARTICIPANT: A few little things,

16 but I think it's 95 percent there.

17 FEMALE PARTICIPANT: Okay. You'll let me

18 know then.

19 MALE PARTICIPANT: Thanks.

20 MALE PARTICIPANT: Thank you, Brenda.

21 Thank you, NRC.

22 MALE PARTICIPANT: Thank you. Talk to you

23 later.

24 FEMALE PARTICIPANT: See you.

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15 CONFERENCE CALL INITIATED
16 1:45 p.m./1:52 p.m.
17 0-9HC2!615365094
18 MALE PARTICIPANT: Hello. This is the
19 headquarters operations officer. I have someone from
20 plume modeling standing by on the line.
21 FEMALE PARTICIPANT: Okay.
22 MALE PARTICIPANT: Can I put them through
23 to this call, to this phone?
24 FEMALE PARTICIPANT: Okay.
25 MALE PARTICIPANT: Sure.

1 MALE PARTICIPANT: Okay, stand by. I'm
2 connecting you now.
3 MALE PARTICIPANT: (b)(5)
4 (b)(5)
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6 MALE PARTICIPANT: (b)(5)
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10 (b)(5)
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15 FEMALE PARTICIPANT: Hello. Hi, this is
16 NRC headquarters operations center. Who is on the
17 line?
18 FEMALE PARTICIPANT: This is Brenda
19 (inaudible) from NARAC.
20 MALE PARTICIPANT: Hi, Brenda.
21 FEMALE PARTICIPANT: Hi. I shared with
22 Lou, the worst case term calculation.
23 MALE PARTICIPANT: Would you say that
24 again, please, Brenda?
25 FEMALE PARTICIPANT: I did the worst case

1 that you guys sent me, and I had shared that with Lou.

2 MALE PARTICIPANT: You're going to share

3 that with Lou?

4 FEMALE PARTICIPANT: I did.

5 MALE PARTICIPANT: Oh, you already shared

6 it with Lou. Okay.

7 FEMALE PARTICIPANT: I did.

8 MALE PARTICIPANT: I'm getting out of

9 here.

10 MALE PARTICIPANT: Brenda -- the one you

11 requested from Brenda?

12 FEMALE PARTICIPANT: You have that?

13 MALE PARTICIPANT: Yes, it's here. I need

14 to give --

15 MALE PARTICIPANT: (b)(5)

16 (b)(5)

17 FEMALE PARTICIPANT: (b)(5)

18 (b)(5) That's all.

19 MALE PARTICIPANT: Okay.

20 FEMALE PARTICIPANT: (b)(5)

21 (b)(5)

22 MALE PARTICIPANT: So, I need to give you

23 access to my NARAC --

24 FEMALE PARTICIPANT: I'm sorry. Brenda,

25 you're from NARAC?

1 FEMALE PARTICIPANT: Yes.

2 FEMALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: (b)(5)

4 (b)(5)

5 FEMALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: And this is dated March

7 12th at 9:00 UTC? I guess 09:00 UTC?

8 FEMALE PARTICIPANT: Let's see. You're

9 looking at --

10 MALE PARTICIPANT: Step 2?

11 MS. POBANZ: (b)(5)

12 (b)(5)

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14 MALE PARTICIPANT: Lou, that isn't the

15 one.

16 MALE PARTICIPANT: Okay, we're just trying

17 to verify.

18 MALE PARTICIPANT: Remember you asked for

19 (b)(5)

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21 MALE PARTICIPANT: No. We just sent them

22 (b)(5)

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24 MALE PARTICIPANT: (b)(5)

25 (b)(5)

1 MS. POBANZ: (b)(5)

2 MALE PARTICIPANT: All right.

3 MS. POBANZ: We just ran it because Bowman

4 wanted me to run it. So, I did.

5 MALE PARTICIPANT: Okay. So, we can print

6 it and share it here. I haven't looked at it yet, but

7 we'll do that right now.

8 MALE PARTICIPANT: There's a whole bunch

9 of phone numbers in here.

10 MALE PARTICIPANT: Verify we have the

11 correct phone number to get her dialed in.

12 FEMALE PARTICIPANT: Okay, Brenda?

13 MS. POBANZ: Yes?

14 FEMALE PARTICIPANT: Your phone number is?

15 MS. POBANZ: (925) --

16 FEMALE PARTICIPANT: (b)(6)?

17 MS. POBANZ: That's it.

18 FEMALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: Okay, who is going to

20 find that printout? What did you want us to do with

21 it?

22 MS. POBANZ: I just wanted -- because Dave

23 asked me to run it, he wanted to see it. I wanted to

24 make sure you guys had seen it. (b)(5)

25 (b)(5) He just wanted to see it, and I

1 wanted to make sure if I let him see it that you guys
2 had it.
3 MALE PARTICIPANT: Right. Okay, no
4 problem.
5 MALE PARTICIPANT: Brenda, just so you
6 know, Stacey is replacing Lou on our shift rotation.
7 MS. ROSENBERG: I'm actually replacing
8 Kathryn Brock. Stacey Rosenberg.
9 MALE PARTICIPANT: And this is (inaudible)
10 Watson. I'm replacing Steve LaVie(phonetic).
11 MS. POBANZ: Okay.
12 MALE PARTICIPANT: So, we'll he here
13 during the day today.
14 MS. POBANZ: Okay.
15 MALE PARTICIPANT: Just so you know when
16 you hear some new voices, there's supposed to be some
17 new voices.
18 MS. POBANZ: Okay.
19 MALE PARTICIPANT: Are you going to get to
20 go home soon, Brenda?
21 MS. POBANZ: In about an hour.
22 MALE PARTICIPANT: Okay.
23 MS. POBANZ: Then others will fill up.
24 MALE PARTICIPANT: We're going to print
25 out your most recent run and take a look at it. Then

1 we'll give you a call back when we had a chance to take
2 a look at it.
3 MS. POBANZ: Okay.
4 MALE PARTICIPANT: Okay?
5 MS. POBANZ: All right. Thank you, guys.
6 MALE PARTICIPANT: No, thank you.
7 MS. POBANZ: You bet.
8 MALE PARTICIPANT: Bye-bye.
9 MS. POBANZ: Bye-bye.
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7 CONFERENCE CALL INITIATED
8 1:45/1:47
9 0-9J-N9-15365094
10 FEMALE PARTICIPANT: Hello. This is
11 Headquarters Operation Center, Protective Measures
12 Team.
13 MR. ATHEY: Yes, this is George
14 Athey(phonetic). Is Lou Brandon there?
15 FEMALE PARTICIPANT: Lou is not here. We
16 --
17 MR. ATHEY: Did someone try to call me?
18 FEMALE PARTICIPANT: Oh, did someone --
19 MALE PARTICIPANT: No. Hey, George. This
20 is Posanta(phonetic).
21 MR. ATHEY: Hey, Posanta.
22 MALE PARTICIPANT: I don't know if anyone
23 tried to call you from this --
24 MR. ATHEY: My cell phone, just about five
25 minutes ago, had a call from the operations center.

1 And I called the duty officer, and he had no clue. So,
2 all right. Well, I'll try to monitor my cell phone if
3 someone is trying to reach me.
4 MALE PARTICIPANT: Okay. Do you have the
5 number displayed there?
6 MR. ATHEY: Yes, it was a duty officer,
7 5100.
8 MALE PARTICIPANT: Okay. Maybe it was
9 just a (inaudible) call.
10 MR. ATHEY: Okay.
11 MALE PARTICIPANT: Because we are at the
12 ops center right now.
13 MR. ATHEY: Yes.
14 MALE PARTICIPANT: Monitoring the Japan
15 situation. I don't know whether Lou wanted us to help
16 us out here with any mapping or anything. I don't
17 know. He did not turn that over to me at all.
18 MR. ATHEY: Okay. Well, I'll just stand
19 by and monitor my phone; if he needs me, he can call
20 me.
21 MALE PARTICIPANT: Okay.
22 MR. ATHEY: Thanks.
23 MALE PARTICIPANT: So, I don't have your
24 phone number.
25 MR. ATHEY: Well, my cell number is (b)(6)

1 (b)(6)

2 MALE PARTICIPANT: (b)(6)

3 MR. ATHEY: Correct.

4 MALE PARTICIPANT: Okay.

5 MR. ATHEY: Thanks, Posanta.

6 MALE PARTICIPANT: Thank you.

7 MR. ATHEY: Bye-bye.

8 MALE PARTICIPANT: Bye.

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10 0-9LPO(L15365094 (No voices to transcribe.)

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25 (CONFERENCE CALL INITIATED)

1:45 p.m./1:49 p.m.

0-9LQG7L15365094

MALE PARTICIPANT: NARAC IMAC Center. This is Phil(phonetic) (inaudible) speaking.

MS. ROSENBERG: Hi, this is Stacey Rosenberg at the NRC Headquarters.

MALE PARTICIPANT: Good morning, Stacey.

MS. ROSENBERG: We're on the phone with NARAC.

MALE PARTICIPANT: Can you hold on while we make some adjustments here?

MALE PARTICIPANT: Yes.

MS. ROSENBERG: Hi. We're sorry. This is Stacey Rosenberg again.

MALE PARTICIPANT: Yes, Stacey.

MS. ROSENBERG: We were wondering if we could get some updated information possible, maybe some met data and current forecast?

MALE PARTICIPANT: Updated met data and current forecast.

MS. ROSENBERG: And any other information you might have?

MALE PARTICIPANT: In terms of model projections, we just did what you guys ran with last night. We don't have anything new --

1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: -- system wise. And we
3 would obviously hopefully have some kind of release
4 probably. Something like that again.

5 MALE PARTICIPANT: Okay.

6 MALE PARTICIPANT: But we can look at the
7 updated meteorological data and current forecast and
8 get back to you guys.

9 MS. ROSENBERG: Okay.

10 MALE PARTICIPANT: Okay. And who is this
11 again?

12 MALE PARTICIPANT: This is Phillip
13 (inaudible). I was one of the --

14 MALE PARTICIPANT: Okay, we know Brenda.

15 MALE PARTICIPANT: Normally, (inaudible)
16 the call, but he was on another line.

17 MS. ROSENBERG: Phillip Voth(phonetic)?

18 MALE PARTICIPANT: Phillip Voth, yes.

19 MALE PARTICIPANT: And who else did you
20 say was there?

21 MALE PARTICIPANT: John Nastrom(phonetic).

22 MALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: He's our daytime
24 manager today.

25 MALE PARTICIPANT: Okay. Stacey has

1 already introduced herself. This is Bruce Watson, and
2 we do the -- we do the dose assessment, and we're just
3 trying to get a feel for what we might look at in the
4 future. So, okay, if we hear anything, we'll call you
5 guys. If not, if you hear anything, call us, please.
6 MS. ROSENBERG: So, if you want to send us
7 an email --
8 MALE PARTICIPANT: Okay.
9 MS. ROSENBERG: I think we'd prefer a
10 phone call though. Wouldn't we? But if you want to
11 send us an email, it's PMT --
12 MALE PARTICIPANT: Capital P as in Pizza?
13 MS. ROSENBERG: Yes, Pizza, Mary, Thomas.
14 MALE PARTICIPANT: Mary, got you.
15 MS. ROSENBERG: Yes. So, all capitals.
16 MALE PARTICIPANT: Yes.
17 MS. ROSENBERG: 02.Hoc@NRC.gov
18 MALE PARTICIPANT: So, PMT02.Hoc@NRC.gov?
19 MS. ROSENBERG: Exactly.
20 MALE PARTICIPANT: All right, we should
21 have that to you. Give me about a half hour. I'm
22 trying to finish a couple other things, and I'll send
23 that to you.
24 MS. ROSENBERG: Okay. Thank you very
25 much.

1 MALE PARTICIPANT: All right. No problem,
2 Stacey. Nice talking to you guys.
3 MS. ROSENBERG: You too, Phillip.
4 MALE PARTICIPANT: Bye, Bruce.
5 MALE PARTICIPANT: Thanks.
6 MS. ROSENBERG: Bye.
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25 (CONFERENCE CALL INITIATED)

0-9MOE8615365094

1:45 p.m./1:50 p.m.

MR. NASTROM: NARAC, John Nastrom(phonetic).

MS. ROSENBERG: Oh, hi, John. This is Stacey Rosenberg at NRC Headquarters.

MR. NASTROM: Hi, Stacey.

MS. ROSENBERG: I'm here with Bruce Watson. We just wanted to make sure. We wanted to

(b)(5)

MR. NASTROM: Yes. The -- you know, we did the calculation as we know, and DOE sees everything that we have. (b)(5)

(b)(5)

MR. WATSON: Okay.

MR. NASTROM: (b)(5)

(b)(5)

MR. WATSON: We're getting lots of questions from --

MS. ROSENBERG: State Department.

MR. WATSON: -- State Department and others, (b)(5)

1 (b)(5)

2 MR. NASTROM: Yes, that's -- yes. I mean

3 we did the - (b)(5)

4

5 (b)(5)

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7 MR. WATSON: Okay.

8 MR. NASTROM: -- for their own planning,

9 and - (b)(5)

10 MR. WATSON: Not gone anywhere?

11 MR. NASTROM: (b)(5)

12 (b)(5)

13

14 MR. WATSON: Yes. We just want to make

15 sure we're on the same page, and that we don't have --

16 MS. ROSENBERG: (b)(5)

17 (b)(5)

18 MR. NASTROM: (b)(5)

19 (b)(5)

20 MS. ROSENBERG: Okay.

21 MR. WATSON: (b)(5)

22 MR. NASTROM: (b)(5)

23

24 (b)(5)

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1 MS. ROSENBERG: Okay, very good.

2 MR. WATSON: We had called earlier about
3 getting some more recent meteoroligical data for the
4 site in a forecast, and they said they would be about a
5 half hour or so before they get that to us.

6 MR. NASTROM: Yes, we're working on that
7 right now.

8 MR. WATSON: We just wanted to confirm
9 that since we didn't talk to you specifically.

10 MR. NASTROM: Just to be clear on that,
11 you're looking for kind of current conditions in the
12 near term forecast, right?

13 MR. WATSON: Right.

14 MR. NASTROM: Okay.

15 MR. WATSON: In the event they do have
16 something crack open, we at least have an idea what's
17 going to happen.

18 MR. NASTROM: Yes. And as far as release
19 of plots, I think we're on the same page with DOE and
20 you. But in general, I -- keep in touch with the DOE
21 NIT folks, as I think you are already, because

22 MS. ROSENBERG: The DOE met folks?

23 MR. NASTROM: No, sorry. We call them the
24 NIT, the Nuclear Incident Team. It's the DOE
25 headquarters folks.

1 MR. WATSON: Is taht Dan?

2 MR. NASTROM: Yes, it's Dan Blumenthal. I
3 don't think he's actually there right now, but the guy
4 on duty is Bob Gerald(phonetic). But let me give you
5 that number. You probably have it.

6 MR. WATSON: I think we have it; (202)
7 (b)(6)

8 MR. NASTROM: That might be one of their
9 numbers.

10 MR. WATSON: Okay.

11 MR. NASTROM: Let me give you the general
12 number that always works.

13 MS. ROSENBERG: Okay.

14 MR. WATSON: Good idea.

15 MR. NASTROM: It's (202) 586-8100.

16 MR. WATSON: That's the general number for
17 --

18 MR. NASTROM: Yes.

19 MR. WATSON: That'll --

20 MR. NASTROM: And who will answer that
21 phone is the duty officer, the watch officer.

22 MR. WATSON: Okay. Kind of like --

23 MR. NASTROM: Yes, and then what you'll do
24 is ask them for the Nuclear Incident Team, and they'll
25 connect you. But yes, so, in fact, I would -- if

1 someone hasn't checked in with them recently, I would
2 call them. I think they're on the same page with you,
3 but it's probably not a bad idea to reinforce that
4 because they -- they may be -- they might release
5 things and we might not even be aware of it. But I
6 know having talked to them this morning, they're
7 exactly on the same page as you.
8 MR. WATSON: Okay, yes.
9 MR. NASTROM: They did talk about setting
10 up a conference call in a llittle while to compare
11 notes.
12 MR. WATSON: Okay.
13 MR. NASTROM: So, I think you guys are
14 included on that.
15 MR. WATSON: Right.
16 MR. NASTROM: But you can also ask them if
17 they have it all scheduled, and when they should call
18 in.
19 MR. WATSON: Okay.
20 MR. NASTROM: All right?
21 MR. WATSON: Okay. Well, thank you.
22 MR. NASTROM: Sure. Thank you guys.
23 MR. WATSON: All right. By the way,
24 thanks for all the support. We appreciate it over
25 night.

1 MS. ROSENBERG: We appreciate your
2 support.
3 MR. NASTROM: Okay. Bye-bye.
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24 (CONFERENCE CALL INITIATED)
25 1:45 p.m./1:48 p.m.

0-9MW^N-15365094

MALE PARTICIPANT: This is Mark. Hello?

MS. ROSENBERG: Hi. This is NRC Headquarters, Stacey Rosenberg. We just wanted to call and make sure if you have a scheduled call, we want to make sure that we're on the call.

MALE PARTICIPANT: WE don't have any scheduled conference calls at this point, but we'll certainly include you if we do.

MS. ROSENBERG: Okay. Do you have a number to call to let us know?

MALE PARTICIPANT: Let me -- I think we do, but let me grab it from you just in case.

MS. ROSENBERG: Okay. Okay, ready?

MALE PARTICIPANT: Yes.

MS. ROSENBERG: It's (301) 816-5419 --

MALE PARTICIPANT: Give me the last four again.

MS. ROSENBERG: The last four are 5419. So, again, it's (301) 816-5419.

MALE PARTICIPANT: Great. We'll give you a call if we have anything?

MS. ROSENBERG: Okay, and we just wanted to also confirm, because this is the deal. It's the Nuclear Indicent Team that I'm speaking with; is that

1 correct?

2 MALE PARTICIPANT: Correct.

3 MS. ROSENBERG: Okay, and I just wanted to

4 (b)(5)

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7 MALE PARTICIPANT: Absolutely, yes.

8 That's one of the things we're pulling together right

9 now is a list of all of the people who (inaudible)

10 we're fielding a lot of requests, (b)(5)

(b)(5)

11

12 MS. ROSENBERG: Okay, and you're not

13 planning to. Is that correct?

14 MALE PARTICIPANT: Correct.

15 MS. ROSENBERG: Okay, okay. Thank you so

16 much. And who am I talking to again?

17 MALE PARTICIPANT: My name is Mark

18 Brideinger(phonetic).

19 MS. ROSENBERG: Okay, Mark. I'm Stacey

20 Rosenberg. All right, so, I guess we'll hear from you

21 when you have another scheduled call. You'll give us a

22 heads up in advance; is that correct?

23 MALE PARTICIPANT: Certainly will.

24 MS. ROSENBERG: Okay, thank you very much.

25 MALE PARTICIPANT: All right, thanks.

1 MS. ROSENBERG: Bye-bye. Thank you.

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24 (CONFERENCE CALL INITIATED)

25 1:45 p.m./1:51 p.m.

0-9NE-2-15365094

MR. WATSON: Ed?

MALE PARTICIPANT: Yes.

MR. WATSON: This is Bruce Watson and Stacey Rosenberg at NRC Headquarters.

MALE PARTICIPANT: Hey, Bruce. Thanks for calling me back.

MR. WATSON: We were here -- well, at least I was here yesterday evening, and came back in this morning. We've been monitoring pretty much all the issues with Unit 1 at the Fukushima.

MALE PARTICIPANT: Right.

MR. WATSON: Apparently, they're still able to maintain water on the core, and maintain containment integrity.

MALE PARTICIPANT: That's good news.

MR. WATSON: In spite of I guess some kind of explosion in the reactor building and other things.

MALE PARTICIPANT: Yes, in spite of whatever CNN says.

MR. WATSON: I'm sorry? Can you repeat that?

MALE PARTICIPANT: Despite what CNN says; that they've blown up the reactor.

MR. WATSON: Well, they have released some

1 -- some pressure from the containment or the reactor
2 vessel, which is normal. But you know it's -- they
3 haven't melted any fuel or anything like that, it looks
4 like, to really cause any significance to source terms.
5 MALE PARTICIPANT: Okay, well, that's --
6 MR. WATSON: And we've done a number of
7 dose modeling runs. The first one is if they release
8 the reactor coolant, which would result in very little
9 dose, if anything, offsite. And right now, and over
10 the night, the winds have been out of the southwest.
11 So, all the -- any emissions or releases from the plant
12 are blowing offshore, away from the populations
13 centers.
14 MALE PARTICIPANT: Okay.
15 MR. WATSON: And it looks like it's going
16 to stay that way pretty much through tonight.
17 MALE PARTICIPANT: Okay.
18 MR. WATSON: At least that's how our
19 forecast goes. Everything is going to continue pretty
20 much dominating from the west, going east into the
21 Pacific Ocean. We've done a number of other scenarios
22 with gap release and even (inaudible) fuel, but we
23 obviously haven't reached those conditions. And they
24 have evacuated 12-mile radius around the plant. I
25 think they call it 20 melt kilometers.

1 MALE PARTICIPANT: Yes, they're up to 20
2 kilometers. Okay.
3 MR. WATSON: Yes, whcih is about 12 miles,
4 I think.
5 MALE PARTICIPANT: Yes.
6 MR. WATSON: So, we're just here
7 monitoring. They announced on the radio that they had
8 issued -- were going to issue KI this morning.
9 MALE PARTICIPANT: Okay.
10 MR. WATSON: So, that's pretty much the
11 status. I don't know if you had any specific
12 questions.
13 MALE PARTICIPANT: No. The biggest issue
14 was to do just what you just did. You know
15 (inaudible).
16 MR. WATSON: We're planning on staying
17 here through the weekend into Monday. So, I guess
18 we're still -- the information we get is pretty
19 sketchy, and we're working with DOE and the National --
20 well, the Nuclear Incident Team, and also we've had a
21 number of runs, dose modeling runs by NARAC of our
22 data. Everything is pretty much aligning up pretty
23 well.
24 MALE PARTICIPANT: Okay.
25 MR. WATSON: So, I mean we're doing what

1 we do, and hoping to get water on this core to cool it
2 down, and we can all go home.
3 MALE PARTICIPANT: Yes, yes. Okay
4 (inaudible).
5 MR. WATSON: Well, the most recent
6 information we had is they were going to use salt water
7 and add boron to it and pump it in, which will cool it
8 down and contain the -- control the reactivity. So, it
9 might mess up their reactor for a while, but that's
10 better than melting fuel because that'll really mess up
11 your reactor.
12 MALE PARTICIPANT: Okay, well (inaudible)
13 cold water on it then they've probably got to replace
14 the fuel and some other stuff. But at least they got a
15 reactor they can --
16 MR. WATSON: Those are all long term
17 decisions. We don't have to worry about -- any otehr
18 questions?
19 MALE PARTICIPANT: That sounds pretty good
20 for now.
21 MR. WATSON: We know the chairman is on
22 his way down to (inaudible) right now, and so I guess
23 that's as high level as it gets.
24 MALE PARTICIPANT: Yes, that's good. I
25 appreciate that.

1 MR. WATSON: Okay?

2 MALE PARTICIPANT: Let me make an offer.
3 Would you like me to come down to the advisory team as
4 a liaison for a while?

5 MR. WATSON: I think if we -- only if we
6 hear there's actually a release.

7 MALE PARTICIPANT: Okay.

8 MR. WATSON: I mean we're just -- we're at
9 kind of a short staff here, kind of doing our
10 monitoring.

11 MALE PARTICIPANT: Yes.

12 MR. WATSON: So, (b)(5)

13
14 (b)(5)
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17 MALE PARTICIPANT: Okay.

18 MR. WATSON: So, other than that, if it's
19 -- if they do have another explosition and rip a hole
20 in the containment, yes, we'd probably aprpeciate some
21 help.

22 MALE PARTICIPANT: All right, well, let me
23 give you a cell phone where you can reach me on any
24 time the rest of the day or the rest of the weekend
25 actually. Probably (inaudible) the advisory team for

1 the rest of the weekend here.

2 MR. WATSON: Okay.

3 MALE PARTICIPANT: (b)(6) [redacted].

4 MR. WATSON: (b)(6) [redacted], okay. (b)(6) [redacted]

5 (b)(6) [redacted]?

6 MS. ROSENBERG: No, (b)(6) [redacted]

7 MALE PARTICIPANT: (b)(6) [redacted]

8 MR. WATSON: (b)(6) [redacted]. Okay, we got it right.

9 MALE PARTICIPANT: Okay.

10 MR. WATSON: Okay, Ed.

11 MALE PARTICIPANT: Great. Thank you, sir.

12 MR. WATSON: Bye.

13 MALE PARTICIPANT: Take care.

14 MR. WATSON: Bye.

15 MALE PARTICIPANT: Bye.

16

17 0-9N-H0-1536594 (No voices to transcribe.)

18 0-9N-ZML1536594 (No voices to transcribe.)

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24 (CONFERENCE CALL INITIATED)

25 1:45 p.m./1:47 p.m.

0-9QIGNL15365094

MALE PARTICIPANT: Protective Measures Team.

MALE PARTICIPANT: I've got Greg Casto(phonetic) on the line for you. Transferring now.

MALE PARTICIPANT: This is Protective Measures Team.

MALE PARTICIPANT: Hi, this is Greg Casto. Who is this?

MALE PARTICIPANT: This is Nema(phonetic) (inaudible).

MALE PARTICIPANT: Oh, hi. How are you doing? Is Stacey Rosenberg there?

MALE PARTICIPANT: Stacey stepped out.

MALE PARTICIPANT: Okay, is Bruce Watson --

MALE PARTICIPANT: Bruce is in the rest room right now.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Can I take a message, Greg?

MALE PARTICIPANT: That's fine. Yes, could you just ask Stacey to give me a call?

MALE PARTICIPANT: Sure. What's this about?

1 MALE PARTICIPANT: Okay, this is about my
2 coming in tonight. Just wanted to get an update, see
3 what was going on, and what the next shift status was.
4 MALE PARTICIPANT: Oh, okay. I have that
5 information.
6 MALE PARTICIPANT: Oh, okay. Stacey is --
7 her shift ends at 7:00 p.m., and we have you on the
8 schedule coming in at that time.
9 MALE PARTICIPANT: Okay, are we running
10 another shift, or --
11 MALE PARTICIPANT: Yes, we're running
12 shifts until Tuesday.
13 MALE PARTICIPANT: Until Tuesday, okay.
14 Okay.
15 MALE PARTICIPANT: So, yes, we have you on
16 the schedule from 7:00 p.m. to 7:00 a.m.
17 MALE PARTICIPANT: All right, that's what
18 I need to know. If she wants to give me a call, let me
19 give you my number. She doesn't need to.
20 MALE PARTICIPANT: Okay.
21 MALE PARTICIPANT: I'll be there tonight.
22 My number is (b)(6) [redacted].
23 MALE PARTICIPANT: That's (b)(6) [redacted].
24 MALE PARTICIPANT: That is correct.
25 MALE PARTICIPANT: Okay, I'll let her

1 know.

2 MALE PARTICIPANT: All right. Appreciate

3 it.

4 MALE PARTICIPANT: Thanks, bye.

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23 (CONFERENCE CALL INITIATED)

24 1:45 p.m./1:49 p.m.

25 0-9YGZML15365094

1 MALE PARTICIPANT: US Department of
2 Energy, Mike. Can I help you?
3 MS. ROSENBERG: Yes. This is Stacey
4 Rosenberg at the Nuclear Regulatory Commission
5 Headquarters, Protective Measures Team, and we just
6 wanted to get, if you have it, an update of any met
7 data.
8 MALE PARTICIPANT: Okay, Stacey. Let me
9 put you in contact with the mets. Hold on a minute,
10 ma'am.
11 MS. ROSENBERG: Okay.
12 MALE PARTICIPANT: And could I get a good
13 call back number for you, ma'am?
14 MS. ROSENBERG: Yes, (301) 816-5419.
15 MALE PARTICIPANT: Okay, 5419. Stand by.
16 MALE PARTICIPANT: Who is it we were
17 talking to this morning, Gerald(phonetic)?
18 MS. ROSENBERG: Bob (Inaudible).
19 MALE PARTICIPANT: Yes.
20 MS. ROSENBERG: Wait, no. I want to say
21 Don Voight, but it was Phil Vote.
22 MALE PARTICIPANT: Don Voight.
23 MS. ROSENBERG: Help. I'm tired.
24 MALE PARTICIPANT: Can you tell it's a 12-
25 hour day?

1 MS. ROSENBERG: Did he hang up?

2 MALE PARTICIPANT: No, he's transferring

3 us.

4 MALE PARTICIPANT: If you could, please

5 stand by, ma'am. We're going to try that call again.

6 They got disconnected.

7 MS. ROSENBERG: Okay, thank you.

8 MALE PARTICIPANT: Okay, ma'am, what I'm

9 about to do is I got your information. I'm going to

10 have to walk it back, and just give it to him, and have

11 him call you direct.

12 MS. ROSENBERG: Okay.

13 MALE PARTICIPANT: Okay.

14 MS. ROSENBERG: Thank you. Well be here.

15 MALE PARTICIPANT: Okay, thank you.

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24 (CONFERENCE CALL INITIATED)

25 1:45 p.m./1:47 p.m.

0-9YU50615365094

MS. ROSENBERG: Hi, this is the NRC Headquarters Operations Center, Protective Measures Team. This is Stacy Rosenberg speaking.

MALE PARTICIPANT: Yes, Stacy. I got somebody from the DOE looking for you. I'm going to connect him now.

MS. ROSENBERG: Great. Thank you very much.

MR. SMITH: Hello?

MS. ROSENBERG: Hi. This is Stacy Rosenberg, NRC Protective Measures Team.

MR. SMITH: Hi, Stacy. It's Chris Smith.

MS. ROSENBERG: Oh, hi, Chris. How are you?

MR. SMITH: I'm good. We got a message that you guys were trying to do a conference call?

MALE PARTICIPANT: What we wanted to do, and I think we got this information from NARAC, but we were looking for updated meteorological data for this afternoon, and the forecast for the evening.

MR. SMITH: Okay.

MALE PARTICIPANT: And we thought we'd run it through you guys, rather than us calling them directly, since I think they're part of your team.

1 MR. SMITH: They are part of our
2 organization.
3 MALE PARTICIPANT: Yes. And so, we
4 thought we'd run it through you guys, the request.
5 MR. SMITH: Okay. So, are you guys, out
6 of curiosity, generating plots also?
7 MALE PARTICIPANT: We haven't been doing
8 really any since -- well, we did one today, but we --
9 we have very limited data on which to base them
10 anymore.
11 MR. SMITH: Exactly.
12 MALE PARTICIPANT: So, we've pretty much
13 stopped unless we have an event that would cause us to
14 do some.
15 MS. ROSENBERG: But we'd like to see if
16 the met data has changed at all.
17 MR. SMITH: Okay. So, I certainly have no
18 issue with that. I assume you guys have the capability
19 to receive their digital information on met data?
20 MALE PARTICIPANT: Yes. They sent us an
21 email last time.
22 MR. SMITH: Okay.
23 MALE PARTICIPANT: And (inaudible) call us
24 just to confirm.
25 MR. SMITH: You want me to give them a

1 call up and have them send it to you again?

2 MALE PARTICIPANT: Right.

3 MS. ROSENBERG: Yes, they can send it to

4 the same email they sent it last time.

5 MALE PARTICIPANT: Okay.

6 MS. ROSENBERG: Perfect. Thank you so

7 much.

8 MR. SMITH: Sure thing. Anything else?

9 MALE PARTICIPANT: No.

10 MR. SMITH: All right. Thank you.

11 MS. ROSENBERG: Okay, thank you.

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Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi Audio File
Protective Measures Team - Day 3

Docket Number: n/a

Location: n/a

Date: March 13, 2011

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1 UNITED STATES OF AMERICA

2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI AUDIO FILE

5 PROTECTIVE MEASURES TEAM

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7 MARCH 13, 2011

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(CONFERENCE CALL INITIATED)

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MR. WATSON: Yes. This is Bruce Watson at the Protective Measures Team at the NRC.

We looked at the data that we received from the Naval Reactors and we had it confirmed by another individual from Naval Reactors after our general call with them and we looked at the data. We compared it with another piece of data we had from the IAEA which had some site dose rates from yesterday which showed somewhere possibly up to 100 millirem at the site boundary. We think it was on the east side of the plant because the actual fixed monitors on the west side of the plant weren't showing much of an increase.

And looking at the time frame, from what we understand, the measurements at the Reagan -- in the Reagan's position which was approximately 100 or more miles away downwind pretty much corresponded with some of the kinds of events we had heard about yesterday of probably the Unit 1 reactor and based on the wind speeds that we were seeing in the data we've gotten from NARAC anywhere from three to five miles an hour. Maybe a little higher at time.

But, principally, if you went off-shore

1 100 miles, it would take about 20 to 24 hours for this
2 event which we consider probably some kind of puff
3 release to arrive in that vicinity at that time. So,
4 we're -- you know, what they were measuring this
5 morning was probably something that was released
6 yesterday.
7 And so, based on that and what we believe
8 the situation in the Unit 1 reactor was is that this
9 was probably longer lived noble gases. It appeared to
10 be a plume in the overhead. Either -- hopefully, it's
11 a large puff from the vent and so, that's -- we looked
12 at that.
13 We did request that the Navy perform from
14 isotopic analysis of the samples they take so we can
15 either look at -- compare some of the half-lives to
16 see what the age of the material is and also, look at
17 the nuclides and make some assessment of whether there
18 was any core damage at that time or not.
19 So, that's where we are. We're still
20 waiting on the Navy to get back to us with the
21 isotopic. This morning, they told us it would take
22 approximately six -- six or more hours to get that
23 isotopic analysis done and they were in the process of
24 flying the samples I guess to the base, their air
25 base, to get the jelly done.

1 MALE PARTICIPANT: To interrupt you real
2 quick, they should be arriving on base right now.
3 It'll take 10/20 minutes to count. So, we should have
4 results inside of --
5 MR. WATSON: Okay.
6 MALE PARTICIPANT: -- an hour or so.
7 MR. WATSON: That's consistent with what
8 they told us this morning. So.
9 We also looked at the -- I guess we call
10 it the shoe contamination of the one individual, one
11 of our Naval guys. Like I said, on one of the
12 Japanese ships and we made the assessment that was
13 probably independent of this plume or this puff mainly
14 because we don't know where the Japanese vessel was
15 during the last 24 to 48 hours.
16 In addition to that, we had a report from
17 the Reagan through NR that, Naval Reactors, I guess
18 they were detecting some contamination on some of the
19 Japanese helicopters that were coming in for refueling
20 and not knowing where they have been and they may have
21 been even engaged in plume monitoring for all we know
22 over the site and so --
23 MALE PARTICIPANT: At NARAC, they were --
24 we weren't using those data points out there in the
25 modeling.

1 MR. WATSON: Okay. Yes, we just don't
2 know how to correlate that to the Reagan data. Other
3 than -- and so, we just discounted it as something
4 that's probably independent.
5 MALE PARTICIPANT: Agreed.
6 MALE PARTICIPANT: They were American
7 helicopters.
8 MR. WATSON: And so, that's the basis for
9 our assumptions and our assessments. We'll know a
10 whole lot more when we get the jelly counts and the
11 isotope analysis.
12 And I believe the Reagan has moved to a
13 slightly different position. So, they are no longer
14 measuring the cloud.
15 MALE PARTICIPANT: I --
16 MR. WATSON: We heard it was moving to a
17 different spot. So.
18 MALE PARTICIPANT: Yes, they are trying to
19 steam -- steam out of the plume.
20 MR. WATSON: Okay.
21 MALE PARTICIPANT: And I think the last
22 report is they are outside.
23 MR. WATSON: Yes, unfortunately, the --
24 and that's the other thing we need from NARAC. We
25 have not had any MET data since last night at the

1 site. So, we need that as soon as you can get it to
2 us and a forecast for today.
3 We're trying to focus on Unit 1 and Unit
4 3 which apparently have had some serious water level
5 indications with the fuel and so, we need that as soon
6 as we can get that emailed to us and we'll look at the
7 Reagan thing when we get the data for the isotopics.
8 We have called in additional resources to
9 help with doing some of the dose modeling and some of
10 the data -- receiving of the data so we have a better
11 handle on how to manage it.
12 MALE PARTICIPANT: Hey, Bruce.
13 MR. WATSON: That's pretty much where we
14 are.
15 MR. HOLMAN: Question on the -- this is
16 Steve Holman (phonetic), NARAC. Question on the
17 source they used to correlate the data at Reagan.
18 Do you remember what -- how much activity
19 did they assume in the long-lived noble gas puff
20 activity-wise to match the data?
21 MR. WATSON: We didn't do any real
22 calculations. Our modeling goes out to 50 miles and
23 we came to the conclusion that yes, you could have a
24 -- in looking at some of the other models we had
25 possibly with some of the small gap releases, you

1 could have some significant residual activity that
2 would have been -- could have been a puff release from
3 a vent.
4 We don't know how long these things had
5 been built up in there. We don't know what the
6 concentrations -- the original concentration was. We
7 have no idea what the release rate was. We have no
8 idea what the -- how long they vented and so, you
9 know, that was strictly our best guess at how it got
10 there.
11 MR. HOLMAN: So, it wouldn't be
12 unreasonable, you know, to talk of a -- you know, make
13 a curie quantity of the xenon-133? Would that be
14 reasonable for you?
15 MR. WATSON: We're hoping that's all it
16 is.
17 MR. HOLMAN: Okay. No. I'm just saying
18 those are kind of -- that activity release of the
19 order of megacuries of --
20 MR. WATSON: Yes, we could probably do
21 that. We didn't see the real relevance of it at this
22 point when we're looking at possible core melt on the
23 other two units.
24 MR. HOLMAN: Okay. That would be
25 unreasonable. That's all I'm asking.

1 MR. WATSON: I'm sorry. I didn't hear.

2 MR. HOLMAN: I was just -- well, we're

3 just trying -- you know, if you had a vent and it was

4 built up, if you -- a release of noble gases of the

5 order of a megacurie or so would not be unreasonable

6 assumption. That's all I was asking.

7 MR. WATSON: I guess not. You know, it

8 could be some significant activity. I mean we don't

9 know how long it built up in the --

10 MR. HOLMAN: That seems to correlate with

11 the dose rates they're measuring at Reagan.

12 MR. WATSON: Okay.

13 MR. HOLMAN: I just -- just that with you.

14 Thanks.

15 MR. WATSON: Yes.

16 FEMALE PARTICIPANT: Hey, Bruce or Jack,

17 can I get a number from you guys in case we need to

18 contact you?

19 MR. WATSON: Yes, area code 301-816 --

20 FEMALE PARTICIPANT: Yes.

21 MR. WATSON: -- 5419.

22 FEMALE PARTICIPANT: Five four one nine.

23 Thank you.

24 MR. WATSON: Okay. Sure. Any other

25 questions?

1 MALE PARTICIPANT: Steve or John or Phil,
2 do you have any questions from NARAC?
3 MR. HOLMAN: No, that was -- thank you for
4 the number.
5 MR. WATSON: Okay.
6 MALE PARTICIPANT: Lucas, do you have any
7 questions?
8 MALE PARTICIPANT: When the first plots
9 are going to come out?
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3 MR. FOSTER: NRC Operations Center. Jack

4 Foster.

5 MS. WOODS-GODDARD: Jack Foster.

6 Stephanie Woods-Goddard (phonetic).

7 MR. FOSTER: How are you doing? How are

8 you doing?

9 MS. WOODS-GODDARD: How are you? Fine.

10 MR. FOSTER: You busy?

11 MS. WOODS-GODDARD: Actually, I am in

12 Memphis, Tennessee.

13 MR. FOSTER: Oh. Right. Having fun.

14 Huh.

15 MS. WOODS-GODDARD: So, do you all need

16 somebody?

17 MR. FOSTER: Well, it looks like you're

18 not able to come. When are you coming back?

19 MS. WOODS-GODDARD: I'm coming -- well, my

20 plan was suppose to come back next -- next Sunday.

21 MR. FOSTER: I tell you what I think where

22 we're at right now, we think we're needing some RASCAL

23 (phonetic) people and --

24 MS. WOODS-GODDARD: You all need some

25 RASCAL people. Okay.

1 MR. FOSTER: Yes, but I think that what
2 we're going to do is we were looking over the list and
3 it looks pretty thin and we're going to do the -- the
4 guys here in the office then are going to look into
5 the fuel cycle side of it. The people that know
6 RASCAL. Because there's some folks in, you know,
7 Disney (phonetic) and NMSS that actually has RASCAL
8 training and experience, but they just don't have it
9 on the reactor side.
10 MS. WOODS-GODDARD: Okay. Because, you
11 know, Tony Huffer (phonetic), I know he's been coming
12 there. You got him?
13 MR. FOSTER: Tony was here Friday night
14 with us.
15 MS. WOODS-GODDARD: Okay. What about
16 Elisa Dixon (phonetic)?
17 MR. FOSTER: That's another one we've got
18 on the list. Is he on the TMT side or the --
19 MS. WOODS-GODDARD: He's on the Protective
20 Measures Team.
21 MR. FOSTER: Okay. Okay. Okay.
22 MS. WOODS-GODDARD: And he can come in.
23 He's a graduate fellow, but he actually is working.
24 I mean he's going to school, but he can -- you guys
25 can call him in.

1 MR. FOSTER: Okay.

2 MS. WOODS-GODDARD: And I know some novice
3 RASCAL users that could -- that have not had an actual
4 exercise in -- basically all of my branch has to have
5 RASCAL training. But, they've not had an exercise in
6 dose assessor. So.

7 MR. FOSTER: And that might be able to
8 work, too, because we could pair them up with someone,
9 you know, just --

10 MS. WOODS-GODDARD: You all can pair them
11 up. Yes.

12 MR. FOSTER: Okay. Throw out a few names
13 with some of the senior folks that you think would be
14 a pretty good match and we'll pass those -- that
15 information along.

16 MS. WOODS-GODDARD: Okay. How long have
17 you been there, Jack?

18 MR. FOSTER: I just got here at 7:30. A
19 couple of my guys in my -- from my branch have been --
20 been in and out. Actually, Nema (phonetic) was on
21 yesterday.

22 MS. WOODS-GODDARD: Yes.

23 MR. FOSTER: And Nema will be on to
24 relieve me today. So.

25 MS. WOODS-GODDARD: Okay. And, you know,

1 Tony, he loves this stuff. You know, if he was there
2 Friday, he can come back.
3 MR. FOSTER: Okay. Okay. And I think
4 he's actually scheduled.
5 MS. WOODS-GODDARD: He's scheduled for
6 tomorrow.
7 MR. FOSTER: Yes, I think he is. So.
8 MS. WOODS-GODDARD: Okay.
9 MR. FOSTER: Okay. Well, that's great.
10 I appreciate you calling. That gives us some ideas.
11 Above Elisa, is there anyone else? What's
12 Elisa's last name again? What's Elisa's last name
13 again?
14 MS. WOODS-GODDARD: Dixon. Elisa Dixon.
15 MR. FOSTER: Are you still there?
16 FEMALE PARTICIPANT: Elisa, he's on
17 rotation in university.
18 MR. FOSTER: Yes, but I just talked --
19 Stephanie said you'd call him and he would be calling.
20 MALE PARTICIPANT: Is she off the hook
21 then?
22 MR. FOSTER: She must be. Are you still
23 there? I think she was on her cell.
24 (CONFERENCE CALL CONCLUDES)
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MR. WATSON: Hi. This is the NRC Protective Measures Team in the Operations Center.

MR. RUSSO: Hi. It's Nate Russo (phonetic) from the DOE NIT.

MR. WATSON: It's who?

MR. RUSSO: Nate Russo from the DOE NIT.

MR. FOSTER: How are you doing, Nate? This is Jack Foster with Bruce here.

MR. RUSSO: Hi, Jack. Oh, great.

MR. FOSTER: How can I help you?

MR. RUSSO: We just received word that Marty Helio (phonetic). I'm sorry.

MR. WATSON: Marty Virgilo (phonetic).

MR. FOSTER: Marty Virgilo.

MR. RUSSO: Virgilo. Thank you. Had briefed a calculation that was done using the data from Reagan.

MR. FOSTER: Right. Right. I wouldn't call it necessarily a calculation, but yes, we -- we looked at the data that -- the data points that Reagan gave us and they seem to be consistent with being 100 miles away from the source itself and being a plausible explanation for a venting at that time.

1 MR. RUSSO: Okay.

2 MR. FOSTER: But, you have to realize one

3 thing is that -- that what we're doing with that

4 information is we're looking back in time 20 hours to

5 make a prediction that at that time there was probably

6 a venting.

7 Do you understand what I'm saying? A

8 hundred miles out when traveling five miles an hour --

9 MR. WATSON: Would take about 20-plus

10 hours to get there.

11 MR. RUSSO: Right.

12 MR. WATSON: So, we're looking at whatever

13 happened yesterday we're seeing it the next day 100

14 miles plus away.

15 MR. FOSTER: We didn't -- we didn't

16 actually take a source term and crank it into RASCAL

17 and come out with those numbers, but it's --

18 MR. RUSSO: Okay.

19 MR. WATSON: Yes, our model goes out to 50

20 miles and it's -- it is possible you could have had a

21 venting of puff release that has now reached that

22 point.

23 MR. RUSSO: Okay.

24 MR. WATSON: Okay.

25 MR. RUSSO: Stood out.

1 MR. WATSON: Continuous release probably,
2 but you could have a puff out there that's measurable.
3 MR. FOSTER: Does that kind of answer your
4 question, Nate?
5 MR. RUSSO: Yes, so, it was just a rough
6 calculation.
7 MR. WATSON: Yes, and in follow-up to
8 that, we -- the Navy did take some air samples and we
9 requested that they do some isotopics on it to see
10 really what's in what they collected.
11 MR. RUSSO: Right.
12 MR. WATSON: And that will give us a
13 better idea of, you know, what may have caused the
14 cloud to be there.
15 MR. FOSTER: Some of the ingredients.
16 MR. WATSON: Yes.
17 MR. FOSTER: And you can't tell just a
18 regular air sampling.
19 MR. WATSON: Yes, and we might be able to
20 tell the age of it if we do get some isotopics
21 especially with knowing that some of the longer lived
22 noble gases would still be in the mix.
23 MR. RUSSO: Right. Right.
24 MR. WATSON: The short ones would be.
25 MR. RUSSO: Okay.

1 MR. WATSON: That's our rationale.

2 MR. RUSSO: Okay. So, one of the things

3 we were wondering is if somebody from your team could

4 call into our RCM bridge line or if they've been in

5 contact with anyone from NARAC RCM to discuss sort of

6 what estimates that you guys were using because right

7 now the model that we're running has an order of

8 magnitude difference. Okay.

9 MR. WATSON: Are you low or high?

10 MR. RUSSO: High.

11 MR. WATSON: High. Yes, we've been kind

12 of -- not knowing what the actual release conditions

13 were and the actual configuration of the releases,

14 we've had the same issue with being a few factors high

15 or a few factors low based on what our assumptions

16 are. So, we've having the same kind of a problem.

17 So, we're continuing to look at that. We've called in

18 some additional people to do some additional dose

19 modeling here.

20 We did request from your guys I, guess it

21 was earlier this morning, that NARAC provide us with

22 some up-to-date meteorology for the site and a

23 forecast. I don't know if we got that or not.

24 MR. RUSSO: Okay. Did we get that MET

25 data? Do we have MET data yet?

1 MR. WATSON: No, we don't have MET data
2 yet.
3 MR. RUSSO: Okay.
4 FEMALE PARTICIPANT: I want to make
5 sure --
6 MR. WATSON: So, our MET data ended at
7 midnight. So, if we could get stuff from midnight on,
8 we'd appreciate it.
9 FEMALE PARTICIPANT: Yes, I don't know
10 where I saw that in the midst of (inaudible). It may
11 have been (inaudible) some place.
12 MR. RUSSO: Okay. Can you hang on for --
13 MR. WATSON: Sure.
14 MR. RUSSO: Bear with (inaudible).
15 FEMALE PARTICIPANT: Well, here let me ask
16 you guys. We were adding -- are we on the phone
17 still?
18 MALE PARTICIPANT: Yes, we're on DOE, but
19 we're --
20 FEMALE PARTICIPANT: Oh.
21 (AUDIO FILE CONCLUDES)
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1 (CONFERENCE CALL CONTINUES)

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3 MR. RUSSO: Is it possible for one of you

4 to call into the CM bridge line to (inaudible)?

5 MR. FOSTER: Yes, CM bridge line. What

6 time is it going to be and what's the number?

7 MR. RUSSO: It's an open bridge line right

8 now.

9 MR. FOSTER: Okay.

10 MR. RUSSO: We have the -- our CM

11 (inaudible) that's are up on it.

12 MR. FOSTER: Okay.

13 MR. RUSSO: The number -- and NARAC's on

14 it, too. Has a representative on it, too. The number

15 is 877-336-1274 and the access code is (b)(6)

16 MR. FOSTER: Okay. Let me repeat it back

17 to you. 877-336-1274, access code (b)(6)

18 MR. RUSSO: Three.

19 MR. FOSTER: (b)(6)

20 MR. RUSSO: Yes.

21 MR. FOSTER: Okay, (b)(6)

22 MR. RUSSO: Correct.

23 MR. FOSTER: And you want us to dial up

24 there immediately to talk on that?

25 MR. RUSSO: I believe they're on there

1 right now.

2 MR. FOSTER: Okay.

3 MR. RUSSO: So, they're on the CM bridge

4 right now. Yes, they're on the bridge line. The

5 number's open right now.

6 MR. WATSON: Okay. And this is primarily

7 dealing with the calculations or the logic behind the

8 Ronald Reagan information versus what the source may

9 be?

10 MR. RUSSO: Right. Exactly.

11 MR. WATSON: Okay. Okay. We'll dial up

12 there immediately. Okay.

13 MR. RUSSO: Okay. Yes. Thank you very

14 much.

15 MR. FOSTER: Thanks, Nate.

16 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 MR. FOSTER: Hi. Jack Foster, NRC.

4 MR. WATSON: Bruce Watson, NRC. We're at

5 the Operations Center at Headquarters.

6 FEMALE PARTICIPANT: I'm sorry. Can you

7 repeat that, guys? One at a time. Go ahead.

8 MR. FOSTER: Jack Foster, NRC, at the

9 Operations Center.

10 MR. WATSON: And this is Bruce Watson,

11 NRC.

12 FEMALE PARTICIPANT: Thank you, guys.

13 Hold on just one moment. Dan, are you getting a hold

14 of Lucas or did you want me to get a hold of him?

15 MR. LUMINTHAL: I sent him an email, but

16 I don't know how real -- do you want Lucas? Yes, give

17 him a call.

18 FEMALE PARTICIPANT: Okay.

19 MR. LUMINTHAL: Okay. We have NARAC and

20 we got the CM home team online. This is Dan Luminthal

21 (phonetic), DOE. Is anyone from the NIT on the line?

22 FEMALE PARTICIPANT: No.

23 MR. LUMINTHAL: Okay. No. So, I'll turn

24 it over to you guys at NRC and (inaudible) over source

25 term calculations.

1 You want to start, NRC?

2 MR. FOSTER: Hold on just one second.

3 Okay. Please.

4 MR. LUMINTHAL: Okay.

5 (CONFERENCE CALL CONCLUDES)

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(CONFERENCE CALL INITIATED)

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RECORDING: You have reached the United States Department of Energy Operations Center. Your call is being transferred to a DOE Watch Officer.

DANIEL: Hello. This is Daniel. How can I help you?

MR. TAPPERT: Yes, Daniel, this is John Tappert with the Nuclear Regulatory Commission.

DANIEL: Yes.

MR. TAPPERT: I'm responding to a call that we had gotten from someone on your team. Was it from -- what's the name?

DANIEL: Steve.

MR. TAPPERT: Steve Aoki.

DANIEL: Steve Aoki.

MR. TAPPERT: Yes.

DANIEL: What was your last name again?

MR. TAPPERT: Tappert T-A-P-P-E-R-T.

DANIEL: All right. I'll connect you back to Mid Ops where he's currently at.

MR. TAPPERT: Okay.

MR. AOKI: Hello. Hello.

DANIEL: Mr. Aoki?

MR. AOKI: Yes.

1 DANIEL: Mr. Tappert, you all are
2 connected.
3 MR. TAPPERT: Okay. Great.
4 DANIEL: Thank you.
5 MR. TAPPERT: Mr. Aoki?
6 MR. AOKI: Yes.
7 MR. TAPPERT: It's John Tappert with the
8 Nuclear Regulatory Commission.
9 MR. AOKI: Hi.
10 MR. TAPPERT: I guess you have some
11 questions which I probably won't be able to answer.
12 MR. AOKI: Yes, well, the basic question
13 is how are we responding to U.S. airlines and other
14 concerns about routing aircraft through the plume or
15 there where the plume might be.
16 So, I guess the first question is have you
17 actually said anything and are you aware of any
18 preexisting standards regarding -- for this sort of
19 situation?
20 MR. TAPPERT: Yes, I'm not really aware of
21 anything at this point. You know, it's Japanese
22 airspace over there. So, we would expect the Japanese
23 to take any actions that would need to be taken, but
24 all the available information that we have would not
25 indicate that that would be necessary.

1 MR. AOKI: Okay. And you're not aware of
2 there being any sort of existing standard that says
3 don't enter airspace with a concentration greater
4 than, you know, XX curies per, you know?
5 MR. TAPPERT: No, I'm not aware of
6 anything and we -- and the skeleton crew that we have
7 here isn't either.
8 MR. AOKI: Okay. All right. So, the fact
9 is nothing actually exists. Just, you know, just
10 wanted to check in with you.
11 MR. TAPPERT: Sure. We're all kind of
12 what if-ing a little bit.
13 MR. AOKI: Okay.
14 MR. TAPPERT: All right.
15 MR. AOKI: I think that's it then. We're
16 probably going to suggest something like, you know,
17 again based on plume modeling that we've gone over
18 with you that the height -- you know, the stuff coming
19 out of the plant is probably not going to go above
20 15,000 feet and, therefore, the altitudes at which
21 commercial flights fly, there really isn't an issue.
22 MR. TAPPERT: Any challenge.
23 MR. AOKI: But, that they should stay out
24 of -- they should stay above, you know, some minimum
25 altitude and perhaps more than, you know, 100 miles

1 off the coast and there should not be a problem.

2 MR. TAPPERT: And I don't know if OSHA has

3 sort of radiation protection standards for air crews

4 or not. I think they do some monitoring. Don't they?

5 MR. AOKI: Yes, well, they do because, you

6 know, you're up there. You get radiation.

7 MR. TAPPERT: Yes.

8 MR. AOKI: Right.

9 MR. TAPPERT: Right.

10 MR. AOKI: I mean clearly it doesn't

11 matter if you're getting an additional dose just so

12 it's a fraction of what you're getting anyway by being

13 in an airplane.

14 MR. TAPPERT: Okay.

15 MR. AOKI: All right.

16 MR. TAPPERT: All right. So, we're here

17 if we need to talk again.

18 MR. AOKI: Okay. Thanks a lot.

19 MR. TAPPERT: Take care. Bye.

20 MR. AOKI: Bye.

21 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 MALE PARTICIPANT: Hello.

4 MALE PARTICIPANT: John, do you want to

5 answer that? Is near Exelon.

6 MR. HOLMAN: This is Steve Holman. I

7 guess John is gone now.

8 MALE PARTICIPANT: Yes, this is -- Lucas

9 was wondering about plots.

10 MR. HOLMAN: So, the first run is out and

11 I just -- kind to get the NIT just to take a look at.

12 MALE PARTICIPANT: Can you send it to us?

13 MR. HOLMAN: No, I'm sorry. I didn't have

14 your email. So, I just --

15 MALE PARTICIPANT: Can you send it to me,

16 too, John?

17 MR. HOLMAN: I sent it to you.

18 MALE PARTICIPANT: Is this your

19 calculations on the source term from the Reagan data?

20 MR. HOLMAN: I'll tell you -- one thing

21 I'll point out when you look at these plots, the

22 source term that's in the report is somewhat

23 misleading because we did a scaling afterwards and we

24 -- first of all, we assumed -- we took a run that had

25 a curie for a second of each of the key isotopes

1 released over 24 hours --

2 MALE PARTICIPANT: Okay.

3 MR. HOLMAN: -- 48 hours time.

4 MALE PARTICIPANT: Are you going to send

5 this to the NRC, too, please?

6 MR. HOLMAN: Yes. I just -- I just --

7 it's just very preliminary and --

8 MALE PARTICIPANT: Okay.

9 MR. HOLMAN: -- and the report which is

10 automatically generated has misleading information

11 about the source because we didn't -- we had to do

12 some post processing steps. So, I guess what I'd say

13 is don't trust the -- don't trust the information from

14 outside if you will. Have better information about

15 that in this email.

16 MALE PARTICIPANT: Yes, we understand. We

17 just don't have sufficient information to make firm --

18 MR. HOLMAN: There's no (inaudible).

19 MALE PARTICIPANT: -- conclusion.

20 MR. HOLMAN: And we're going to have to

21 delay ourselves as well.

22 MALE PARTICIPANT: When you say don't

23 trust this source. Is it conservative or

24 nonconservative in your estimate?

25 MR. HOLMAN: It's -- what it is --

1 basically, what we assumed was that -- we took a one
2 curie per second source over 48 hours and just tried
3 to scale it to -- and what we came up with for cesium
4 which is our marker for the particulates of 5 curies
5 per second and for then the xenon-133 which is our
6 marker for the noble gas and for comparing the dose
7 rate measurement, we used 5 per second. Anybody has
8 -- if people have comments on the plausibility of
9 that, we'd appreciate it because obviously the
10 measurements are very limited. So, there's no way to
11 make any definitive statement.
12 So, basically, what we did is we tried to
13 get a source term that would give dose rates at the
14 distances downwind that had measurements of comparable
15 value.
16 So, in that sense, if it -- they could be
17 conservative because we don't have -- or it could be
18 an under prediction. So, it's hard to say because
19 it's just not enough measurements to confirm this.
20 But, that's our best first initial rough guess.
21 So, I'm just going to reiterate. We just
22 used some marker isotopes for particulates and a
23 marker isotope for the noble. So, the source terms
24 themselves that you see in the report are not going to
25 be -- I wouldn't pass those on to folks because

1 they're not -- they're not -- they're not the values
2 that we actually used in the model because of the way
3 we did this calculation.
4 So, I guess, Dan, you're forwarding us to
5 Lucas. Is that right?
6 DAN: Yes, it's 25 megabytes, Lucas. Oh,
7 my God. I sent it to you though.
8 LUCAS: Okay. Show up shortly.
9 DAN: I was looking at it.
10 MALE PARTICIPANT: And I guess so -- Dan,
11 should we forward that to the NRC as well so they can
12 take a look at it?
13 DAN: Yes, please do.
14 MALE PARTICIPANT: Okay. So, is HOO.HOC
15 email the right one or is that too broad?
16 MALE PARTICIPANT: Would you do that one
17 and do PMT01?
18 MALE PARTICIPANT: PMT01?
19 MALE PARTICIPANT: PMT02 HOC.
20 MALE PARTICIPANT: It's a 25 megabyte
21 file. So, send it to one place and --
22 MALE PARTICIPANT: Okay. Yes, send it
23 just to the main -- the HOO.
24 MALE PARTICIPANT: Okay. So, I just want
25 to make sure that --

1 MALE PARTICIPANT: Attention --

2 MALE PARTICIPANT: -- since this is so

3 preliminary in draft that that's not going to get

4 redistributed.

5 MALE PARTICIPANT: We have the same

6 agreement with you as with ourselves.

7 MALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: Sometimes you don't

9 know who. You know, if it's going to 100 people. I

10 just don't know.

11 MALE PARTICIPANT: We do -- we do want you

12 guys to expedite getting as much data as you can.

13 MALE PARTICIPANT: Which data? The plot?

14 MALE PARTICIPANT: No, the MET data for

15 the last --

16 MALE PARTICIPANT: Oh.

17 MALE PARTICIPANT: -- midnight and then

18 into today and then your forecast for this evening for

19 the site.

20 MALE PARTICIPANT: Oh.

21 MALE PARTICIPANT: Yes, we need that.

22 MALE PARTICIPANT: And make that attention

23 --- that -- when you send it to the HOO to make it

24 attention PMT. Okay.

25 MALE PARTICIPANT: Okay.

1 MALE PARTICIPANT: We'll tell them if you
2 don't.
3 MALE PARTICIPANT: Hey, John, you might
4 have to put it on the CM web because like Lucas' email
5 is rejecting a 25 megabyte attachment.
6 FEMALE PARTICIPANT: I don't know that we
7 can get that.
8 MALE PARTICIPANT: It's rejecting it?
9 MALE PARTICIPANT: Yes.
10 MALE PARTICIPANT: Interesting.
11 MALE PARTICIPANT: That's okay. We can --
12 MALE PARTICIPANT: And you don't want to
13 push it out over the normal system?
14 MALE PARTICIPANT: No, I was going to ask
15 John if he could put it in the CM web folder where you
16 -- that you gave Lucas access to or break it into
17 smaller files. Wanted to.
18 MALE PARTICIPANT: I guess why -- why not
19 just put it into -- put it into the normal system and
20 so that my sites can see it.
21 MALE PARTICIPANT: Yes. That's fine.
22 Yes, we'll do that.
23 MALE PARTICIPANT: And I know we say to
24 limit distribution, but let's face it. This is the
25 first run plot that isn't -- that's somewhat based on

1 data and the 7th Fleet, the reason why we're using
2 this is we need to know roughly how far out our ships
3 need to be.
4 MALE PARTICIPANT: Where to be. Yes. No,
5 absolutely.
6 MALE PARTICIPANT: So, but I can't
7 promise, won't promise that, you know, at least within
8 the Navy that it's not going to -- going to circulate.
9 MALE PARTICIPANT: We should look at it
10 amongst ourselves for awhile to see if it's just
11 admiral worthy yet. That's all.
12 MALE PARTICIPANT: Yes.
13 MALE PARTICIPANT: We agree.
14 MALE PARTICIPANT: So, if you could put it
15 in that folder in CM web, John, and make sure the
16 specific Protective Measures Team folks have access to
17 that book.
18 MALE PARTICIPANT: Okay. With all the
19 caveats you just made about this initial plot and the
20 source term being off, how long do you think before
21 you refine it? We should have isotopic data
22 relatively soon, but that didn't seem to influence
23 necessarily your refined plot on the source term.
24 MALE PARTICIPANT: Are you asking us a
25 question? The NRC?

1 MALE PARTICIPANT: No, I was asking NARAC
2 a question.
3 MALE PARTICIPANT: Okay.
4 MALE PARTICIPANT: Why -- so, you're NARAC
5 because I mean --
6 MALE PARTICIPANT: No.
7 MALE PARTICIPANT: -- you have to look at
8 it. NRC has to look at it and then if we actually
9 adjust anything, then NARAC has to do it. So.
10 MALE PARTICIPANT: Okay.
11 MALE PARTICIPANT: Okay.
12 MALE PARTICIPANT: So, the first step is
13 NARAC will post it on the -- in the same pools you
14 have access to already, Lucas, and do you guys at NRC
15 have CM web accounts?
16 FEMALE PARTICIPANT: No.
17 MALE PARTICIPANT: No.
18 MALE PARTICIPANT: Or does one of you have
19 a CM web account?
20 FEMALE PARTICIPANT: No, I don't know.
21 I've never heard of it.
22 MALE PARTICIPANT: I don't believe so.
23 MALE PARTICIPANT: Okay.
24 FEMALE PARTICIPANT: They just give me the
25 emails.

1 MALE PARTICIPANT: Protective Measures
2 Team should have access to CM web.
3 FEMALE PARTICIPANT: All right. We'll
4 double check that. We're drawing --
5 MALE PARTICIPANT: Well, you would know if
6 you had accounts.
7 MALE PARTICIPANT: We have some account,
8 but --
9 MALE PARTICIPANT: What?
10 FEMALE PARTICIPANT: And I don't know that
11 we do.
12 MALE PARTICIPANT: Yes, I wouldn't -- I
13 don't know that -- CM web.
14 MALE PARTICIPANT: That's how we post
15 NARAC products and IMAC (phonetic) products.
16 FEMALE PARTICIPANT: Oh, yes.
17 MALE PARTICIPANT: We have --
18 FEMALE PARTICIPANT: I think they do.
19 MALE PARTICIPANT: Okay. Maybe you have
20 access to IMAC web.
21 MALE PARTICIPANT: Yes.
22 MALE PARTICIPANT: It's all the same.
23 MALE PARTICIPANT: Okay. We --
24 MALE PARTICIPANT: Or NARAC web.
25 MALE PARTICIPANT: Okay.

1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: Okay. So, NARAC will

3 make sure that you guys have permission to view the

4 folders --

5 MALE PARTICIPANT: Okay.

6 MALE PARTICIPANT: -- the folders that

7 they put this in.

8 MALE PARTICIPANT: You're going to send us

9 where it's located in the folders or --

10 MALE PARTICIPANT: No, you get an

11 automated email and it tells you where.

12 MALE PARTICIPANT: Okay. Okay. Sounds

13 great.

14 FEMALE PARTICIPANT: Thank you.

15 MALE PARTICIPANT: Okay. NARAC, you still

16 on?

17 MALE PARTICIPANT: Is that going --

18 MALE PARTICIPANT: Yes, I'm just sending

19 an email to the NRC right now and yes, we're checking

20 on the NRC. You folks that have CM web accounts. So,

21 we'll look to see who's there already.

22 MALE PARTICIPANT: Okay.

23 FEMALE PARTICIPANT: Did you hang up?

24 MALE PARTICIPANT: Are we off?

25 MALE PARTICIPANT: Anything else?

1 DAN: This is Dan. I didn't have anything
2 else. John will get it out to you guys.
3 MALE PARTICIPANT: Okay. It sounds like
4 we're hanging up. Talk to you guys later.
5 DAN: All right. Hey, Lucas.
6 LUCAS: Yes.
7 DAN: I wasn't on the call when -- I heard
8 you said something about isotopic measurements, but I
9 didn't hear --
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3 MALE PARTICIPANT: Any joy on the

4 email?

5 MALE PARTICIPANT: No, it's not going

6 anywhere. Tried it a second time and it's not going.

7 I don't have access into any network drive.

8 MALE PARTICIPANT: You can't save it on a

9 G or --

10 MALE PARTICIPANT: No network drive

11 access.

12 MALE PARTICIPANT: Close -- close out

13 outgoing and open it up again.

14 MALE PARTICIPANT: Can you spell your last

15 name for me?

16 MR. TAPPERT: T-A-P-P-E-R-T.

17 MALE PARTICIPANT: Okay. And 816-5100 a

18 good number for you?

19 MR. TAPPERT: Yes, or the direct line, I

20 guess is 301-816-5419.

21 MALE PARTICIPANT: Five four one nine and

22 how about an email.

23 MR TAPPERT: Nema, what's an email here?

24 (AUDIO FILE CONCLUDES)

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1 (CONFERENCE CALL CONTINUES)

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3 MR. TAPPERT: You can send it to my

4 personal. It's john.tappert T-A-P-P-E-R-T @nrc.gov.

5 MALE PARTICIPANT: John (inaudible)?

6 MR. TAPPERT: Yes.

7 MALE PARTICIPANT: We have a phone number.

8 MALE PARTICIPANT: @nrc.gov?

9 MR. TAPPERT: Yes.

10 MALE PARTICIPANT: (b)(5)

11 (b)(5)

12 MR. TAPPERT: (b)(5)?

13 (b)(5)

14 MALE PARTICIPANT: I don't know what that

15 is.

16 MR. TAPPERT: It's a (b)(5)

17 MALE PARTICIPANT: Okay. I don't --

18 MR. TAPPERT: I don't have access to

19 readily. (b)(5)

20 MALE PARTICIPANT: (b)(5)

21 (b)(5)

22 MR. TAPPERT: Okay. I'm sure we have that

23 capability. Let me --

24 MALE PARTICIPANT: We'll look into it.

25 MR. TAPPERT: Yes, we'll look into the

1 account number and you can see what it's going to take
2 for -- if you can share it at all.
3 MALE PARTICIPANT: Okay. And you're
4 specifically wanting the products that we've been
5 producing for (inaudible)?
6 MR. TAPPERT: Yes, well, specifically the
7 -- anything that you've done on dose projections.
8 We're trying to benchmark. We've been trying to do
9 some of the same work here and on limited data. In
10 fact, we're actually using some of the data that was
11 collected at the Reagan to kind of calculate. So,
12 we're just trying to see what other assessments are
13 out there to kind of benchmark.
14 MALE PARTICIPANT: Okay. Well, I'll tell
15 you what. We're going to contact the (b)(5)
16 (b)(5)
17 he is all right with sharing that and then while we're
18 doing that, you can try and find like an account. We
19 could use, too.
20 MR. TAPPERT: Sure. Okay.
21 MALE PARTICIPANT: All right.
22 MR. TAPPERT: Thank you, sir.
23 MALE PARTICIPANT: Um-hum. Hold just a
24 second.
25 Let me clarify something real quick.

1 Okay. We've actually been doing like some modeling
2 for -- you know, on the unclass side for projections
3 based on, you know, like a partial containment failure
4 and so forth.
5 MR. TAPPERT: Right.
6 MALE PARTICIPANT: So, is that what you're
7 asking about?
8 MR. TAPPERT: Yes, you know, the --
9 MALE PARTICIPANT: Okay. So, you're
10 actually asking about -- because we've been doing an
11 unclass product for the last couple of days.
12 MR. TAPPERT: That would be the easiest
13 thing for us to handle to be perfectly honest with
14 you.
15 MALE PARTICIPANT: Okay. Okay. Now, that
16 one because we've been doing that for more than just
17 (b)(6) that one we've got a little
18 more leeway on.
19 MR. TAPPERT: Yes, that would be
20 sufficient. I mean basically we're just trying to
21 reach out and I heard that this existed and we just
22 wanted to -- if you can share it that we just wanted
23 to see if you're in the same ballpark that we are.
24 MALE PARTICIPANT: Okay. Well, I'll tell
25 you we can certainly get our FOIA product out to you

a little bit easier.

MR. TAPPERT: Okay.

MALE PARTICIPANT: And like I say that one has a little bit broader audience. So, we can work on that and then if need be, if you can maybe track down an account that --

MR. TAPPERT: Right.

MALE PARTICIPANT: -- if need be and you can maybe contact us back with that.

MR. TAPPERT: Okay.

MALE PARTICIPANT: All right. So, john.tappert@nrc.gov?

MR. TAPPERT: Yes.

MALE PARTICIPANT: Okie dokie.

MR. TAPPERT: Thank you.

MALE PARTICIPANT: Um-hum.

(CONFERENCE CALL CONCLUDES)

(CONFERENCE CALL INITIATED)

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MR. TAPPERT: (b)(6)

ROBERT: RESPECT (phonetic). This is Robert.

MR. TAPPERT: Good afternoon. This is John Tappert with the Nuclear Regulatory Commission.

ROBERT: Yes.

MR. TAPPERT: Trying to get a hold of (b)(6) (b)(6)

ROBERT: He's not in this office. Try dialing 767-3445. He may be over there.

MR. TAPPERT: Okay. Three four four five?

ROBERT: Yes.

MR. TAPPERT: Okay. Thank you.

ROBERT: All right. You're welcome.

MAGNUS: DTI (inaudible). This is Magnus (phonetic).

MR. TAPPERT: Yes. Good afternoon. This is John Tappert with the Nuclear Regulatory Commission.

MAGNUS: Okay.

MR. TAPPERT: I was trying to get a hold of (b)(6)

MAGNUS: (b)(6) Would that be

1 the Lieutenant Commander?

2 MR. TAPPERT: I couldn't tell you that.

3 This was just given to me by one of my colleagues and

4 this is in reference to the Japanese nuclear power

5 plant event.

6 MAGNUS: Yes, this is DTI RESPECT. Can

7 you hold on one second?

8 MR. TAPPERT: Sure.

9 MAGNUS: Okay. Sir, you have to go

10 through the ops center. Let me give you that phone

11 number.

12 MR. TAPPERT: Okay.

13 MAGNUS: It's 703 --

14 MR. TAPPERT: Yes.

15 MAGNUS: -- 767 --

16 MR. TAPPERT: Yes.

17 MAGNUS: -- 2000.

18 MR. TAPPERT: Two thousand.

19 MAGNUS: Yes.

20 MR. TAPPERT: Okay.

21 MAGNUS: Thank you.

22 MR. TAPPERT: Thank you.

23 MALE PARTICIPANT: Operations. May I help

24 you?

25 MR. TAPPERT: Yes. Good afternoon. This

1 is John Tappert with the Nuclear Regulatory
2 Commission.
3 MALE PARTICIPANT: Yes. What's going on?
4 MR. TAPPERT: Not too much. I'm trying to
5 locate a (b)(6)
6 MALE PARTICIPANT: A (b)(6)
7 MR. TAPPERT: Yes.
8 MALE PARTICIPANT: He's on the Ronald
9 Reagan right now.
10 MR. TAPPERT: He's on the Ronald Reagan.
11 Okay.
12 MALE PARTICIPANT: (b)(5)
13 MR. TAPPERT: All right. Here's -- let me
14 just pose the question. Maybe you can help me.
15 I was just referred -- I was given his
16 name and this number by one of my colleagues who said
17 that you guys had done some dose -- radiation dose
18 projection modeling for the Japanese power plant event
19 out there.
20 MALE PARTICIPANT: We did it for (b)(5)
21 (b)(5)
22 MR. TAPPERT: Yes. Is that something that
23 you could share with us?
24 MALE PARTICIPANT: That I'm not sure of
25 because it was a Navy request.

1 MR. TAPPERT: Okay. We're on the same
2 team.
3 MALE PARTICIPANT: I know. I know. I
4 know, but, you know, when we -- they -- the --
5 (b)(5)
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10 MR. TAPPERT: Yes. Yes. We're actually
11 Nuclear Regulatory Commission not DOE. But, yes.
12 MALE PARTICIPANT: The NRC. I'm sorry.
13 Hold on just a second. Let me bounce this off someone
14 here right next to me.
15 MR. TAPPERT: Okay.
16 MALE PARTICIPANT: She can probably give
17 you a better answer.
18 MR. TAPPERT: Okay. Super.
19 MALE PARTICIPANT: Hold on just a second.
20 I'm sorry. What's your name again?
21 MR. TAPPERT: John Tappert.
22 MALE PARTICIPANT: John Tappert. Okay.
23 Just a second.
24 (CONFERENCE CALL CONCLUDES)
25

(CONFERENCE CALL INITIATED)

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MR. DAVENPORT: (Inaudible).

MR. LABINSKI: Hi. This is John Labinski (phonetic) from the Protective Measures Team at Nuclear Regulatory Commission.

I was calling for Tom Waldrup (phonetic).

MR. DAVENPORT: Actually, Mr. Waldrup has left for the evening here. We're on a crew rotation. Can I help you?

MR. LABINSKI: Yes, can we get your name?

MR. DAVENPORT: George Davenport (phonetic).

MR. LABINSKI: George Davenport. Thank you, George.

The reason we are calling is we had -- the last information we got from the USS Ronald Reagan we got a dose rate of 0.6 millirem per hour and we wanted to see if there was -- if we can get some updated information as far as location of the Reagan and what the current dose rates are at the Reagan and if there's any analysis of air sampling that would tell us what isotopes are being measured at the Reagan.

MR. DAVENPORT: The information that I do have at this time is that they don't have any isotopic

1 analysis of the air samples.

2 MR. LABINSKI: Okay.

3 MR. DAVENPORT: So, we're working on

4 getting some equipment to the ship so that we can

5 actually perform that analysis.

6 MR. LABINSKI: Okay.

7 MR. DAVENPORT: I don't have any CD yet or

8 arrival time for that equipment.

9 MR. LABINSKI: I'm sorry. I missed the

10 second half of your comment.

11 MR. DAVENPORT: I said I don't have an

12 arrival time yet for that equipment.

13 MR. LABINSKI: For the equipment. Thank

14 you. Okay.

15 MR. DAVENPORT: So, more to follow when we

16 get that there and perform those analyses.

17 At this point, the ship has relocated

18 north and she is currently not reading any measurable

19 gamma doses.

20 MR. LABINSKI: Okay. No measurable gamma

21 doses and I'm sorry. The location again.

22 MR. DAVENPORT: North is the best I can do

23 for you.

24 MR. LABINSKI: North from where it was

25 before. So, it would be a bit further than it was.

1 The last reading we or last location we have is about
2 100 miles from --
3 MR. DAVENPORT: They're not downwind.
4 MR. LABINSKI: -- Fukushima. So, now,
5 you're not in the downwind any longer.
6 MR. DAVENPORT: Correct.
7 MR. LABINSKI: Okay. And can you confirm
8 to us the last readings that you had and the location
9 of the ship at the time?
10 MR. DAVENPORT: The last reading that I
11 have in front of me was the -- sorry. I'm just trying
12 to make sure I get the right distance here. I believe
13 she was 101 nautical miles and it was 6. It sounds
14 like the battle points that you have.
15 MR. LABINSKI: .6 and was it MR per hour?
16 MR. DAVENPORT: That is correct.
17 MR. LABINSKI: Okay. Thank you very much.
18 Appreciate it, George and I guess we will get back in
19 touch with you at some point just to get a status on
20 any equipment that would come onto the ship as far as
21 taking the isotopic reading.
22 MR. DAVENPORT: None. As far as
23 information flowing you, is there a point of contact?
24 MR. LABINSKI: At this point, the number
25 you should call and get it to is 301-816-5419 and

1 there are about four or five of us that will be at
2 this phone and we'll be switching shifts at about 7:00
3 a.m. Eastern Time.
4 MR. DAVENPORT: Okay. Have you been
5 provided any additional data at this point other than
6 what Mr. Waldrup provided to you?
7 MR. LABINSKI: We were provided a briefing
8 package that the CD -- I'm sorry. Okay. We got data
9 that came in. It was updated at 2040 on 3/13. Had
10 air sampling from the flight deck, location and
11 longitude, latitude and I believe the isotopic it got
12 was from smears that were taken from some people that
13 were flown into the ship via helicopter.
14 MR. DAVENPORT: Okay.
15 MR. LABINSKI: So, that's the -- and
16 that's the last data we have.
17 MR. DAVENPORT: Understand. Yes, we have
18 not received anything -- that information.
19 MR. LABINSKI: So, this is -- you have not
20 received the information I'm discussing?
21 MR. DAVENPORT: I believe we have that.
22 I just don't have that in front of me.
23 MR. LABINSKI: Okay. But, you believe
24 that's the most recent data. Correct?
25 MR. DAVENPORT: Correct.

1 MR. LABINSKI: Okay. Thank you. George,
2 I appreciate it. If you have anything new that comes
3 up, if you can get in touch with us, we'd appreciate
4 it.
5 MR. DAVENPORT: Will do.
6 MR. LABINSKI: Thank you.
7 MR. DAVENPORT: Thank you. Bye.
8 (CONFERENCE CALL CONCLUDES)
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1 (CONFERENCE CALL INITIATED)

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3 FEMALE PARTICIPANT: NRC.

4 MS. WOODS-GODDARD: Yes, Jack Foster

5 please.

6 MR. FOSTER: Yes, I'm here. This is --

7 MS. WOODS-GODDARD: Jack, okay. We got

8 hung up, but I gave you all the information that I

9 knew. But, I did want to just kind of finalize, touch

10 bases with you.

11 MR. FOSTER: Okay. Well, we appreciate

12 it, Stephanie. You have a good time.

13 MS. WOODS-GODDARD: Okay. Do you want me

14 to call the people in my branch or are you going to

15 take it from there?

16 MR. FOSTER: We'll take it from here.

17 We'll do it as needed. Okay.

18 MS. WOODS-GODDARD: Okay. Then thank you

19 and I'll keep on just touching bases in case you

20 really, really get real, real, real low.

21 MR. FOSTER: Yes, there's some -- it's

22 pretty -- pretty exciting kind of a -- you know, it's

23 not low keyed here. We're actually jumping around

24 doing a lot of stuff.

25 MS. WOODS-GODDARD: Yes, I'm sure you all

1 are. I'm sure you all are.

2 MR. FOSTER: Data's coming in. Some of it

3 we don't know whether it's right or wrong and it's

4 coming in from different directions, too. So. So, I

5 do appreciate the call, Stephanie.

6 MS. WOODS-GODDARD: Okay then, Jack.

7 MR. FOSTER: You have a good --

8 MS. WOODS-GODDARD: Take care.

9 MR. FOSTER: Have a good vacation.

10 MS. WOODS-GODDARD: Okay. Thank you.

11 MR. FOSTER: Bye-bye.

12 MS. WOODS-GODDARD: Bye-bye.

13 (CONFERENCE CALL CONCLUDES)

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(CONFERENCE CALL INITIATED)

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BRENDA: NARAC. This is Brenda.

MR. BRANDON: Hi, Brenda. This is Lou Brandon (phonetic) at the NRC.

BRENDA: Hey, Lou.

MR. BRANDON: Did you get a chance to go home yet since last night?

BRENDA: I did go home. I was home for like, oh, maybe five hours.

MR. BRANDON: That's not much. Are you getting enough sleep?

BRENDA: Yes. Yes, I am only here for another 45 minutes or hour or so. Then I actually get to go home and -- just like a normal person.

MR. BRANDON: Is someone going to be working there during the night tonight?

BRENDA: Yes. Yes. Yes, Ron Baskett (phonetic) and a couple of other staffers will be here tonight.

MR. BRANDON: Okay. We have a little bit of an unusual request.

BRENDA: Okay.

MR. BRANDON: We just sent you another source term.

1 BRENDA: Okay.

2 MR. BRANDON: And the request to us was

3 see if you can model the case where unit -- Fukushima

4 Unit 1 and Unit 3 both had an entire fuel melt and

5 containment failure and then had that activity

6 released. What would be the impact on Hawaii?

7 BRENDA: Oh, my God.

8 MR. BRANDON: So --

9 BRENDA: You're kidding me.

10 MR. BRANDON: So, what we picked as a

11 surrogate was Grand Gulf Nuclear Power Plant because

12 this is explained a little bit in the email that we

13 just sent to you.

14 BRENDA: Um-hum.

15 MR. BRANDON: Basically, it has a few --

16 a power rating which is about twice -- which is about

17 the combined amount for those two units.

18 BRENDA: Okay.

19 MR. BRANDON: And then it's very similar

20 to that case we sent last night where it was a full

21 failure containment release.

22 BRENDA: Right.

23 MR. BRANDON: It's a large impact. So, at

24 50 miles in RASCAL, you're seeing PAGS (phonetic)

25 exceeded about -- you know, more than we saw last

night.

BRENDA: Right.

MR. BRANDON: So, the question to you is we're interested in those ingestion pathway plots that you -- when you do the consideration for cesium and iodine in terms of milk pathway or produce.

BRENDA: Okay. So, does the ingestion -- do we get ingestion levels in Hawaii from the source room that you're going to send?

MR. BRANDON: Yes. So, I just -- you know, I told them off the fly. I said you're not going to get anything in Hawaii, but they want to -- they want us to work this problem anyway just so that we can size it up. So.

BRENDA: And I need to tell DOE that that's what's getting requested and who's asking?

MR. BRANDON: This is NRC.

BRENDA: Oh, I know you're the NRC. Who's asking you? USDA or --

MR. BRANDON: No. No. This is our -- the NRC Executive Management.

BRENDA: Oh, okay. Okay.

MR. BRANDON: Trying to -- they're just trying to look at a worse case scenario. Because these units are being challenged a little bit right

1 now.

2 BRENDA: Yes. Okay. It'll -- we actually

3 do have a hemispheric run set up that will give us

4 levels in Hawaii. We haven't run that big source

5 term. So, we would need to do that. It'll take a

6 little bit of time. But --

7 MR. BRANDON: In the email, I suggested

8 since it's -- it's this low-level deposition, it might

9 be good to run all of the radionuclide, but we left

10 that open for you to decide.

11 Those DRL plots at the end are based

12 mostly on cesium and iodine. So --

13 BRENDA: Yes.

14 MR. BRANDON: -- use good judgment and if

15 you don't want to run all those radionuclides, I think

16 you can make that decision.

17 BRENDA: Yes, it's more than likely that

18 we'll do that since the limiting ones are usually

19 cesium and iodine.

20 MR. BRANDON: Yes.

21 BRENDA: So, and it'll --

22 MR. BRANDON: That will make life a little

23 bit easier.

24 BRENDA: -- go a little faster. Yes.

25 MR. BRANDON: And then we ran it for 20

1 hours, but to get it blown all the way to Hawaii, I
2 don't know if you need to run it longer than that.
3 BRENDA: Yes, it takes like three days.
4 MR. BRANDON: Three days to run it?
5 BRENDA: No, to get to Hawaii.
6 MR. BRANDON: Oh, okay.
7 BRENDA: No, it's not going to be three
8 days to run it, but it will take -- I think it's three
9 days right now to get to Hawaii from the --
10 MR. BRANDON: At the wind speed. Yes.
11 All right and it might take you a few hours to do the
12 run?
13 BRENDA: Yes.
14 MR. BRANDON: Will that tie up your
15 computer? Your only resources for all that --
16 BRENDA: No, we have multiple domains.
17 So, it'll run on one machine and we'll be working on
18 other things.
19 MR. BRANDON: Okay. Okay. That's what we
20 got.
21 BRENDA: Okay. Is there, you know, a
22 drop-dead date you guys are looking to build this
23 presentation by or something?
24 MR. BRANDON: You know, I think they'll be
25 satisfied if we just tell them NARAC's working on it

1 right now and it may be a few hours.

2 BRENDA: Okay. Okay. We will get to

3 work.

4 MR. BRANDON: All right. You sound pretty

5 chipper there for --

6 BRENDA: Well, like I said I get to leave

7 soon. It soon will be somebody else's problem not

8 mine.

9 MR. BRANDON: You are wonderful to work

10 with, Brenda. We appreciate the great service on your

11 end of the --

12 BRENDA: Well, thank you very much and

13 thank you, guys, for working with us on all of this,

14 too. We certainly wouldn't want to be the ones trying

15 to come up with source terms for all this crazy stuff.

16 Let me tell you that.

17 MR. BRANDON: It's a good alliance I think

18 we got going here. So.

19 BRENDA: Yes. All right. Thanks a lot,

20 guys.

21 MR. BRANDON: We'll look forward. Okay.

22 Talk to you later, Brenda.

23 BRENDA: All right. Bye-bye.

24 MR. BRANDON: Bye-bye.

25 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 MR. BRANDON: Hello. This is NRC. Lou.

4 MR. BIELL: Hey, Lou. It's Bill Biell

5 (phonetic) calling from DOE.

6 MR. BRANDON: Bill.

7 MR. BIELL: How are you?

8 MR. BRANDON: Are you still -- are you

9 still up at this hour? What's going on?

10 MR. BIELL: I'm just getting started.

11 MR. BRANDON: Really. Because you started

12 at --

13 MR. BIELL: Yes, we came on at -- we came

14 on -- work the graveyard shift. So, I just got off

15 the phone with Brenda and she passed on the request

16 that you guys had about the worse case times 2.

17 MR. BRANDON: Okay.

18 MR. BIELL: So, Bowman (phonetic) just --

19 Dave Bowman just asked me to make sure that I talked

20 to you to get it -- to get the request directly here

21 at the NIT. So, since we're trying to make sure that

22 we -- that we're tracking all the different requests

23 that are going to NARAC --

24 MR. BRANDON: Oh.

25 MR. BIELL: -- whenever you got a request

1 going in like that, if you can give us a call to
2 request it through here so we can appropriately do
3 stuff.
4 MR. BRANDON: Okay.
5 MR. BIELL: You know, just keep an eye on
6 their taskings.
7 MR. BRANDON: Okay. Understand.
8 MR. BIELL: But, do you have --
9 MR. BRANDON: And we're just in the habit
10 of dialing them up and talking to them.
11 MR. BIELL: Yes. Yes. Yes.
12 MR. BRANDON: The situation --
13 MR. BIELL: I think it's -- that's
14 partially specific to this event just because there's
15 so many requests happening right now.
16 MR. BRANDON: I didn't realize you're
17 actually getting other requests from other agencies,
18 but it makes sense that you might.
19 MR. BIELL: Yes.
20 MR. BRANDON: Are they overwhelmed at
21 NARAC?
22 MR. BIELL: At the moment, no, but
23 there's, you know, senior-level folks here that are --
24 that we need them to produce some stuff for as well.
25 So, at the moment, it's just, you know, our own

1 taskings as well as yours. So.

2 MR. BRANDON: Okay. Well, you can --

3 MR. BIELL: It --

4 MR. BRANDON: You can relegate ours to

5 whatever priority you want. It's not --

6 MR. BIELL: Yes, well, it sounds like it

7 -- it sounds like the one that we're looking for is

8 just about done anyway and they'll probably start

9 working immediately on the one you guys are looking

10 for.

11 MR. BRANDON: Okay.

12 MR. BIELL: But, I just wanted to -- so,

13 Brenda called me and Dave Bowman just wanted me to

14 pass that on to you. So, if you have similar requests

15 like that, feel free to continue to tell Brenda and

16 give them the heads up, but also call us and let us

17 know that that request is in there and we can, you

18 know, help them prioritize it appropriately.

19 MR. BRANDON: All right. I'm pretty sure

20 we got your number. I'll just jot it down once again.

21 For the NIT.

22 MR. BIELL: Yes, the --

23 MR. BRANDON: Or is it -- go ahead.

24 MR. BIELL: The Watch Office is 202 --

25 MR. BRANDON: Okay.

1 MR. BIELL: -- 586 --

2 MR. BRANDON: Five eight six.

3 MR. BIELL: -- 8100.

4 MR. BRANDON: Eighty-one hundred. Okay.

5 MR. BIELL: And just have them patch you

6 through to the NIT.

7 MR. BRANDON: Okay.

8 MR. BIELL: Okay. All right. And you

9 said this was for your, what, executive leadership?

10 MR. BRANDON: Yes, they've tasked us to

11 size it up, but you know RASCAL only projects out to

12 50 miles at the most. So --

13 MR. BIELL: Right. Right.

14 MR. BRANDON: -- I want to talk on the

15 impact on Hawaii. You guys are the natural fall-back

16 resource there.

17 MR. BIELL: Yes. Yes. Sure.

18 MR. BRANDON: So --

19 MR. BIELL: And just so we're aware, is

20 there a time crunch on that?

21 MR. BRANDON: No.

22 MR. BIELL: Does it need to be done by

23 like a certain briefing time?

24 MR. BRANDON: No, I told Brenda. In fact,

25 I asked her a few questions. We didn't want to tie up

1 all the resources there.

2 MR. BIELL: Okay.

3 MR. BRANDON: But, she said they have

4 separate machines and they can run this on one and

5 work on another.

6 MR. BIELL: Oh, great.

7 MR. BRANDON: And we're not in any rush

8 for this result.

9 MR. BIELL: Okay. Good. All right. I

10 just wanted to clarify all that.

11 MR. BRANDON: I understand it might take

12 hours to run this.

13 MR. BIELL: Oh. All right. Yes, that's

14 right. It's going to go out a long way. Right.

15 MR. BRANDON: Yes. So, we will -- we

16 appreciate the call. We'll follow the protocol to

17 first go through the NIT and sorry that we didn't do

18 that this time.

19 MR. BIELL: Oh, that's -- that's perfectly

20 fine. No -- no --

21 MR. BRANDON: So, what are you guys see in

22 there? Any insight in terms of whether Unit 1 or Unit

23 3 are having core damage?

24 MR. BIELL: All -- all I really know --

25 all we seemed to really know here is what has already

1 been in the -- the NISA report. You know, the NISA
2 press release if you've seen that. About the -- you
3 know, they've released it at 3:00.
4 MR. BRANDON: What's the acronym? N-I-S-
5 A?
6 MR. BIELL: NISA N-I-S-A. We're getting
7 -- we're seeing press releases from the TEPCO website.
8 I don't know if you --
9 MR. BRANDON: The TEPCO. Yes, we're
10 getting those. That's the same --
11 MR. BIELL: Yes, so, the latest -- I think
12 it was like the 8:00 a.m. report made mention --
13 explicit mention of the -- that 3 had vented.
14 MR. BRANDON: Oh, okay.
15 MR. BIELL: I don't know if you saw that.
16 MR. BRANDON: No, we didn't see that.
17 FEMALE PARTICIPANT: We haven't seen it.
18 No.
19 MR. BIELL: Yes, so, Fukushima 1 Unit 3
20 had vented at I don't remember what time, but then
21 there was also, you know, CNN is throwing up headlines
22 that there's a possible meltdown that we've been told
23 is not the case.
24 MR. BRANDON: Yes.
25 MR. BIELL: But, it's -- you know, it's

1 all just sketchy reporting. Otherwise, it's just sort
2 of --
3 MR. BRANDON: Yes.
4 MR. BIELL: -- very little concrete stuff
5 it seems like.
6 MR. BRANDON: That's the feeling we have
7 over here, too. It's difficult to --
8 MR. BIELL: Yes.
9 MR. BRANDON: -- really identify.
10 MR. BIELL: It's not even clear, you know,
11 what level of success they had with the sea water
12 tactic.
13 MR. BRANDON: Yes.
14 MR. BIELL: So, I don't know. I guess for
15 now we'll just keep reacting I suppose.
16 MR. BRANDON: All right. We'll keep
17 beating the bushes over here for information and --
18 MR. BIELL: Great. Okay, Lou.
19 MR. BRANDON: -- we'll periodically talk
20 to you guys as we go forward.
21 MR. BIELL: Yes, and I guess we'll
22 probably -- it might be worth getting on a bridge line
23 call or something once the -- once NARAC --
24 MR. BRANDON: This latest run.
25 MR. BIELL: Batch. Yes.

1 MR. BRANDON: Okay. Sounds good.

2 MR. BIELL: Okay. Thanks, Lou.

3 MR. BRANDON: We'll talk to you next time,

4 Bill.

5 MR. BIELL: Yes.

6 MR. BRANDON: Okay. Bye-bye now.

7 MR. BIELL: All right. Bye.

8 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 OPERATOR: Welcome to the tel-advantage

4 conference manager. Please enter your conference ID

5 followed by the #.

6 The conference is currently empty. You

7 will hear silence or music on hold when connected.

8 Please hold while we connect you. Please

9 say your name.

10 MR. BRANDON: Lou Brandon.

11 OPERATOR: Thank you.

12 BILL: Bill's here. Anybody else on?

13 MR. BRANDON: Lou's on and Michele Hart

14 (phonetic) is with me.

15 BILL: Okay. We've got the volume turned

16 down here on CNN, but I can hear it through the phone.

17 MR. BRANDON: We've got it running in the

18 background. It's at a low enough level we can still

19 talk unless they get too distracted.

20 They're reporting a possibly -- they think

21 a meltdown may have occurred.

22 BILL: Yes.

23 MR. BRANDON: You guys watching it, too?

24 BILL: Yes. Yes. Yes, that was -- that

25 looks like the same quote that has been up on CNN's

1 front page on the website for a while, too.

2 MR. BRANDON: Oh.

3 BILL: No Brenda yet?

4 MR. BRANDON: Doesn't sound like.

5 BILL: Okay.

6 MR. BRANDON: So, this is interesting on

7 this -- all you got to do is multiply this by 1.5

8 times 10 to the 17th.

9 MS. HART: Yes.

10 MR. BRANDON: And you're right on the last

11 scale. So, it's just a factor of (inaudible) would be

12 one and a half (inaudible).

13 MS. HART: Okay. Oh, well, that works

14 well.

15 MR. BRANDON: So, not much of an impact

16 and you're still only two-thirds of the way to Hawaii.

17 MS. HART: Right. Not going to be much at

18 all.

19 BILL: So, Lou, I guess while we're

20 waiting for Brenda can I ask you a question?

21 MR. BRANDON: Sure.

22 BILL: If -- I mean we don't want to ask

23 you to have to make a whole other source term for this

24 thing. Is there a -- I know that those two units are

25 different power outputs. So, is it as simple as just

1 sort of scaling one versus the other? Is that kosher
2 to do so that we don't have to create a whole new
3 source term for this like double scenario?
4 MR. BRANDON: Well, that's a good question
5 and when we first started sizing this up, we were
6 thinking how can we model this. You've got two lower
7 level power rated reactors, the Unit 1 and Unit 3,
8 there. So --
9 BILL: Three is lower?
10 MR. BRANDON: Well, no, I mean --
11 BILL: I thought 2 through 5 were --
12 MR. BRANDON: What we've got is Unit 1 is
13 460. Unit 3 is 784 megawatts and we chose Grand Gulf
14 as a surrogate which is 1297 megawatts. So, if you
15 add the two little ones together, you know, it's kind
16 of in the ballpark of the big one.
17 But, the fact is in the reactor itself the
18 fuel -- there's more fuel, if you add Unit 1 and Unit
19 3's fuel together, than you would find in the reactor
20 vessel for Grand Gulf.
21 BILL: Okay.
22 MR. BRANDON: If that makes sense. So,
23 we're going to try and model this --
24 BILL: Yes.
25 MR. BRANDON: -- with one big reactor

1 instead of two little ones because RASCAL doesn't
2 really have that option of twos two and get a double
3 output.
4 BILL: Right.
5 MR. BRANDON: But, the fact is if you
6 released all the fission products in the two little
7 ones, it might be a greater impact than the Grand Gulf
8 is going to provide to you. It's probably way --
9 it'll probably overestimate anyway. So, it may be --
10 it may be fine and to answer this question, you know,
11 what we're looking at right now is these NOAA runs.
12 I don't know if you've been -- high-split runs.
13 BILL: I haven't seen them since my last
14 shift which was like a day and a half ago.
15 MR. BRANDON: Okay. So, Michele has
16 figured out that basically these are based on a one
17 baca (phonetic) roll activity release.
18 BILL: Okay.
19 MR. BRANDON: And you can scale them based
20 on that. So, after three days, it looks like this
21 plume, the definition plot or the plume plot, is about
22 two-thirds of the way to Hawaii and the outer edge of
23 it based on this run we just sent to NARAC if you look
24 at the cesium activity released, it would be -- you
25 know, we can scale that up to say what the activity

1 would be at the outer edge and it's like one and a
2 half baca rolls two-thirds of the way to Hawaii. So,
3 extremely low activity.
4 You can basically conclude from that any
5 impact in Hawaii's going to be negligible.
6 BILL: Okay.
7 MR. BRANDON: Based on this high-split
8 preliminary scaling of their model considering the
9 amount of cesium that was released in the model in the
10 wraparound we just did.
11 Does that make sense?
12 BILL: Okay.
13 MR. BRANDON: Now, I think we're going to
14 see the same thing when NARAC finishes their run.
15 We'll see --
16 BILL: Right.
17 MR. BRANDON: -- that impact projection
18 extend out maybe 200 miles, but it's not going to be
19 nearly to Hawaii with any levels of concern.
20 BILL: Okay. I see it. So.
21 MR. BRANDON: So, what was it that you
22 wanted to get us altogether to discuss? How critical
23 it is that we run this --
24 BILL: Yes, so, what I --
25 MR. BRANDON: I think we can --

1 BILL: What I want -- sorry. Go ahead,
2 Lou.
3 MR. BRANDON: We can use this high-split
4 result and basically answer the question our
5 management is asking us and that really takes all
6 pressure off NARAC to run that run until they got
7 plenty of time to do it.
8 BILL: Okay. Well, but that -- what I --
9 the main reason I wanted to get you on along with
10 NARAC was because we don't -- I just wanted to get --
11 if there was an easy way for NARAC to do a source term
12 for this two-unit scenario with just a simple scale.
13 I just wanted to make sure that you were comfortable
14 with that.
15 If it's not that simple, then maybe we
16 could get some advice on how to proceed.
17 MR. BRANDON: Well, yes, Brenda has been
18 working with us and --
19 BILL: Right.
20 MR. BRANDON: -- they know how to scale
21 down the source term to use. You know, what we're
22 really concerned about is congestion pathway impact.
23 Those will be mostly from iodine and cesium.
24 BILL: Right.
25 MR. BRANDON: So, you can --

1 BILL: Well, I'm talking specifically

2 (b)(5)

3

4 MR. BRANDON: Oh.

5 BILL: (b)(5)

6 MS. HART: That is pretty open-ended.

7 MR. BRANDON: So -- okay. So, what you

8 want to know is if there's a -- I'm not sure what the

9 question is. More --

10 BILL: Okay.

11 MR. BRANDON: -- efficient way for NARAC

12 to run.

13 BILL: I'm not being very clear. So, what

14 (b)(5)

15 --

16 MR. BRANDON: Oh, I see.

17 BILL: Actually, what we did -- and

18 essentially what we did as if 1 went off for the 10

19 percent uncovered fuel --

20 MR. BRANDON: Yes.

21 BILL: -- case, the first case and do it

22 for two reactors instead of one. Do it for Unit 1 and

23 3. Well, basically, have a Unit 1 only, Unit 3 only

24 and then 1 plus 3. So, we can show them all three

25 possibilities.

1 MR. BRANDON: Okay.

2 BILL: So, to hopefully simplify that

3 situation and not have to create a whole new source

4 term, I wanted to -- I wanted someone that, you know,

5 knows how to model a source term to, you know, give

6 advice on whether that -- whether it's as simple as

7 scaling something.

8 MR. BRANDON: Let me think out loud here

9 a little bit. What we sent you yesterday was a 10

10 percent core melt and today, we were looking at a 40

11 percent core melt with pretty good containment and

12 that modeled fairly well what was reported on the

13 ground.

14 BILL: Okay.

15 MR. BRANDON: So, that's probably -- let's

16 see. You wanted -- are we thinking in terms of worse

17 case or --

18 BILL: No, not in our case. We just want

19 to -- we just want -- in our case, we're not worried

20 about worse case. We're worried about the conditions

21 -- the cases that we've already looked at.

22 MR. BRANDON: Okay.

23 BILL: What happens if it happens twice?

24 MR. BRANDON: Okay.

25 BILL: You know, either one or the other

1 or both.

2 BRENDA: You know -- this is Brenda. My

3 question is this. We run the ten for the 1 unit. If

4 the third unit goes and the third unit is how much

5 bigger than the first unit, do we just scale that

6 first run we already have by something?

7 MS. HART: And these are the same isotope

8 (inaudible) that you're going to give us?

9 BRENDA: Yes. Is it --

10 MR. BRANDON: I'm beginning to understand

11 now.

12 BILL: Yes, that's basically -- that's

13 exactly the question we're asking.

14 MR. BRANDON: Yes, you know the first unit

15 -- I think, as you know, these are all kind of

16 ballpark projections. So, I'll speak and Michele can

17 correct me if I'm too far off. But, the Unit 1 is a

18 460 megawatt. Unit 3 is a 784. So, yes, if you

19 wanted to represented 10 percent core damage for Unit

20 3, you could just scale that result from Unit 1 and

21 you would probably have a representative impact.

22 BILL: Based on power? Total power?

23 MR. BRANDON: Yes, because they're both --

24 they're all BW wires and when it comes down to fuel

25 making energy, the fission product mix I think is

1 going to be pretty much the same. So, it's just a
2 matter of adding it up. So, if you can take those
3 numbers and you can scale the Unit 1 run to represent
4 a Unit 3 by itself and then if you added them together
5 and ran it again, you would have the impact which is
6 for both of them at the same time and I think you'll
7 probably find if you do Unit 3 by itself, you're
8 probably going to see the impact plot extend just a
9 little bit beyond what it was for Unit 1 and if you
10 add them together, it might go out twice as far as the
11 Unit 1 by itself. Just guessing.
12 BILL: Okay.
13 MR. BRANDON: Yes, that's one way to
14 approach this and, you know, we can run new source
15 terms and (inaudible) air act, but if you can just add
16 the numbers up, that's --
17 BILL: Yes, that's what -- we -- we didn't
18 want to have to make you guys do that. That's why I
19 was asking this question.
20 MR. BRANDON: I think it's a -- it sounds
21 like a pretty simple process.
22 MS. HART: Yes, Oyster Creek is like right
23 in between the power ratings of both those (inaudible)
24 units.
25 BILL: Oh.

1 MS. HART: Yes, Oyster Creek is 619.

2 BILL: That's right. We've been scaling

3 things back a little bit because Oyster Creek is --

4 GAIL: We accidently hung up on you guys.

5 BILL: Good. Figured.

6 GAIL: So, just to confirm, so what do you

7 need from us to run? Can we -- you need us to run

8 both a 1 separately which we've already done? Three

9 separately and then a 1 plus 3 or -- and I'll -- and

10 all at 10 percent? Are we doing the 10 percent?

11 BILL: Yes, I think since we -- since

12 we've already done the 1, we'll run the 3 and then the

13 1 plus 3.

14 GAIL: And we're doing that all in the 10

15 percent scenario?

16 MR. BRANDON: Ten percent core melt.

17 That's probably a good one to use.

18 GAIL: Okay.

19 BILL: Yes, that's the one -- that's the

20 one we'd like to use.

21 MR. BRANDON: As long as containment is

22 holding, that gives you a realistic picture of a low-

23 impact situation.

24 GAIL: Okay. But, let me just say this.

25 Ben and I are about -- are on the turnover to a new

team that's going to be on for the night shift. Ron Baskett's going to lead that. Michael Dillon (phonetic) is also on that team and he's here with us. So, Michael's going to ask a question because he's probably going to be the guy who is doing it.

MR. DILLON: I want to confirm you have reviewed the Unit 1 case that has been sent and that meets your needs for Unit 1. Is that correct?

BILL: The Unit 1 stuff we received, does that meet our needs? So, the NARAC stuff we just got.

BRENDA: The Unit 1 was from -- the one from last night or like 24 hours ago.

MR. BRANDON: Two thumbs up on the TMI/Chernobyl, et cetera comparison.

BRENDA: Oh, really. Thank you.

GAIL: Okay. So, we're out on that?

BILL: Yes. Brenda (inaudible).

GAIL: Okay. Thank you.

MR. BRANDON: Hang on. Yes, dial into the bridge line. Hang on. I think they want to -- no, the (b)(6) is the one I'm on, (b)(6) Yes. Hang on. Dave's calling into the bridge line.

BILL: Okay.

MALE PARTICIPANT: Here's the latest news release that we got from NISA.

1 MR. BRANDON: Oh, good. We were just
2 talking about that. I'm going to turn this down just
3 a little bit.
4 DAVE: Hello. Hello.
5 MR. BRANDON: Hello. Is this Dave?
6 DAVE: Hey. Is that Gail?
7 GAIL: Yes, this is Gail with Ron Baskett,
8 Michael Dillon and Brenda Pobance (phonetic).
9 DAVE: Okay. So, I'll start with the good
10 news. I just talked through the TMI comparison and
11 Chernobyl comparison with Neil Miller (phonetic) and
12 she was happy with that. So.
13 GAIL: Okay. You did see that there were
14 presenter notes that the bottom of the page if you
15 want to get sort of the background on how we did the
16 sources and things.
17 DAVE: Yes, we got that.
18 GAIL: We didn't want to put that on the
19 main slide, but we thought you may need that.
20 DAVE: Okay. So, that was the good news.
21 (b)(5)
22
23
24 about those.
25 GAIL: Yes, that -- Bill was just going

1 over that with Lou I guess.

2 BRENDA: Yes, so, we've got to plan ahead

3 for that it sounds like.

4 GAIL: Right.

5 DAVE: Right. (b)(5)

6 (b)(5) So, you know, an

7 accident at 1, an accident at 3, an accident at both

8 and we just got an email about a catastrophic accident

9 at both. So.

10 FEMALE PARTICIPANT: Well, that would be

11 the same thing --

12 GAIL: The same thing we're going to scale

13 (inaudible).

14 FEMALE PARTICIPANT: I'll say where we're

15 thinking about. Yes.

16 GAIL: So, we were just going to do

17 scaling.

18 DAVE: So, I mean I don't think we need to

19 do -- yes, exactly. Scaling is absolutely the right

20 way to do it. We don't need a new detailed

21 calculation because we know that we don't have plant

22 condition information anyway. (b)(5)

23

24 (b)(5)

25

1 MR. BRANDON: Sounds good. I think you
2 got everything you need from us at this time.
3 GAIL: Okay. So --
4 BILL: Yes, I think so.
5 GAIL: -- as I mentioned, Dave, you were
6 probably meant to be there. Ron Baskett is taking
7 over as Response Manager for the night shift. John
8 will be back around --
9 DAVE: Okay.
10 GAIL: And then I'll be back. I and
11 Brenda will be back on the 2:00 p.m. thing. So,
12 obviously, if anything big happens, you know, Ron will
13 call us and spin in. We start getting real
14 information on something that we really need to do,
15 you know, we all spin up if it's real --
16 DAVE: Right. And the other things is you
17 guys --
18 GAIL: Any other requests that we need to
19 cover?
20 DAVE: The other things that --
21 GAIL: I mean anything else? Because we
22 don't have anything on the table.
23 BILL: As you produce these, Gail, can you
24 share them with Lou at the NRC please?
25 FEMALE PARTICIPANT: He's got a web

1 account.

2 MR. BRANDON: Right. Yes, we're --

3 GAIL: Well, yes, we're going to send it

4 to the NIT and the NIT will get it to you guys. So,

5 NIT has told us they want to control distribution of

6 everything.

7 BILL: Okay. That's fine.

8 BRENDA: We'll ask the NIT if we can share

9 it with you, Lou?

10 GAIL: Yes. You want it on the web.

11 But --

12 BRENDA: Yes.

13 GAIL: -- it will go through the NIT so.

14 MR. BRANDON: Thank you.

15 GAIL: And we have it uploaded. So, if

16 you're happy with the slides, we'll actually go ahead

17 and post it -- the slide set on the web as well and

18 release it to you guys only at (inaudible).

19 DAVE: Yes. Okay.

20 GAIL: That's it. I just mailed it to you

21 guys I guess. I mean I guess you got the email copy.

22 BRENDA: They got it. But, we'll post

23 (inaudible). Anyway.

24 GAIL: Very good.

25 DAVE: So, there is -- there is one other

1 thing. The Naval Reactor folks when I talked to them,
2 I put it in an email, but if you guys can keep an eye
3 on the local weather and they wanted to know if
4 there's any significant --
5 GAIL: Yes, we've got that as a regular
6 thing.
7 BRENDA: Yes, we sent them that 24-hour
8 forecast and we'll do that everyday.
9 GAIL: Yes.
10 DAVE: No, but I mean -- so, yes. But,
11 one thing they were asking, and I think actually makes
12 sense, is I don't know how often you like look at the
13 local -- the weather near the plant, but people are
14 going to want to know if the wind direction changes.
15 BRENDA: Yes.
16 GAIL: As part of doing the forecasting,
17 we'll flag them if anything -- really big kind of
18 changes. Like it suddenly on shore of something.
19 DAVE: Yes.
20 BRENDA: Right.
21 DAVE: Exactly. Exactly. That's what
22 people are going to want to know.
23 GAIL: But, we'll -- yes, that'll be part
24 of our forecasting. We'll look at that.
25 BRENDA: Yes.

1 DAVE: Okay.

2 GAIL: And since we're giving local

3 conditions to --

4 BRENDA: The NRC.

5 GAIL: -- the NRC, we run the local

6 surface wind conditions at the plant every eight hours

7 I guess. We're doing for the NRC.

8 BRENDA: Yes.

9 GAIL: That'll also help us. So, we'll

10 certainly flag anything.

11 BRENDA: So, the whole point of the 24-

12 hour forecast we said earlier today is the fact the

13 winds are going to continue to stay off shore for the

14 next 24 hours.

15 GAIL: Yes, Monday maybe --

16 DAVE: Okay.

17 BRENDA: Monday maybe -- but, we'll give

18 you guys a big heads up before it looks like anything

19 would start to move on land.

20 DAVE: I see. Okay. Okay.

21 GAIL: Okay. All right. So, we'll sign

22 off. Okay.

23 MALE PARTICIPANT: Thanks, everybody.

24 MR. BRANDON: All right.

25 (CONFERENCE CALL CONCLUDES)

26

(CONFERENCE CALL INITIATED)

0%@R955_15365094.wav

MR. CASTO: NRC Operations Center. Greg Casto (phonetic).

MR. JONG: Hey, Greg. This is Dave Jong (phonetic) from DOE.

MR. CASTO: Hey, Dave.

MR. JONG: Hey, we have -- we just got a request from our DOE contacts in Japan.

MR. CASTO: Yes.

MR. JONG: (b)(5)

(b)(5)

going over -- that are over there in Japan on the DART (phonetic) team and we know you guys have one or two guys on the DART team. Correct?

MR. CASTO: We have -- I think we have one on the team and then another individual coming. But, we are sending two people over.

MR. JONG: Right.

MR. CASTO: Yes.

MR. JONG: So, do you guys mind helping us craft like one or two talking points explaining what, you know, your person is doing there?

MR. CASTO: Sure. We can do that.

1 Talking points. Not bios, but in general, what their
2 purpose being.
3 MR. JONG: Like being part of the team.
4 MR. CASTO: Got it.
5 MR. JONG: Their reason.
6 MR. CASTO: All right. Talking points.
7 MR. JONG: If you can provide that to me
8 like maybe ten minutes.
9 MR. CASTO: All right.
10 MR. JONG: Briefings are like half an
11 hour. (b)(5)
12 MR. CASTO: Okay. Let me talk to Mike.
13 Okay.
14 MR. JONG: Real fast.
15 MR. CASTO: Okay. All right. Got it.
16 MR. JONG: Thank you.
17 MR. CASTO: Phone number back.
18 MR. JONG: Email it to us.
19 MR. CASTO: I'm sorry. Email. Do we have
20 their email? I'm not sure if we got their email.
21 What's your email? We'll send it to you.
22 MR. JONG: It's nitops@nnsa.doe.gov.
23 MR. CASTO: Okay.
24 MR. JONG: I'll spell it for you.
25 MR. CASTO: Nit?

1 MR. JONG: It's --

2 MR. CASTO: All right.

3 MR. JONG: N as in November.

4 MR. CASTO: Yes.

5 MR. JONG: I as in India. T as in tango.

6 O as in Oscar. P as in papa. S as in sierra @ N as

7 in November. N as in November. S as sierra. A as in

8 alpha @doe.gov.

9 MR. CASTO: Okay. One question. Okay.

10 nitops@nnsa or nitops.nnsa?

11 MR. JONG: nitops@nnsa.doe.gov.

12 MR. CASTO: .doe.gov. Okay. Got it.

13 MR. JONG: Yes.

14 MR. CASTO: Okay. Okay. Understand. All

15 right. We'll get right back to you.

16 MR. JONG: Thank you very much appreciate

17 it.

18 MR. CASTO: Okay. Bye.

19 MR. JONG: Bye.

20 (CONFERENCE CALL CONCLUDES)

21

22

23

24

25

1 (CONFERENCE CALL INITIATED)

2 0%@RKV6L15365094.wav

3 RECORDING: You have reached the United

4 States Department of Energy Operations Center. Your

5 call is being transferred to a DOE Watch Officer.

6 MR. SHAW: Shaw (phonetic) speaking. May

7 I help you?

8 MR. CASTO: Hi. Can you transfer me to

9 Dave Jong in the NIT. This is Greg Casto at the NRC.

10 MR. SHAW: What was your name again? Dave

11 what?

12 MR. CASTO: Greg Casto and --

13 MR. SHAW: Oh, Greg Casto.

14 MR. CASTO: -- I'm looking for Dave Jong.

15 MR. SHAW: Dave Jong or Dave Bowman?

16 MR. CASTO: No, Jong.

17 MR. SHAW: Jong. Okay.

18 MR. CASTO: In the NIT.

19 MR. SHAW: Okay. Standby.

20 MR. CASTO: Thank you.

21 MR. SHAW: You're welcome. Dave is on the

22 line. Go ahead.

23 MR. CASTO: Thank you.

24 MR. SHAW: You're welcome.

25 MR. CASTO: Dave.

1 MR. JONG: Hey, Greg. How's it going?

2 MR. CASTO: Pretty good. I just wanted to

3 circle back with you and let you know that our liaison

4 people should be sending that to you any minute.

5 MR. JONG: Great. Thank you very much.

6 MR. CASTO: They're -- yes, momentarily.

7 MR. JONG: Appreciate it.

8 MR. CASTO: They're drafting it right now.

9 MALE PARTICIPANT: (Inaudible) more than

10 15 minutes.

11 MR. CASTO: Okay. So, if you do not see

12 it within 15 minutes, if you want to call us back,

13 we'll be sure to get it to you.

14 MR. JONG: Okay. Okay. Thank you very

15 much.

16 MR. CASTO: Okay. Thanks.

17 MR. JONG: Appreciate it.

18 MR. CASTO: Okay.

19 MR. JONG: Right. Talk to you later.

20 Bye.

21 (CONFERENCE CALL CONCLUDES)

22

23

24

25

(CONFERENCE CALL INITIATED)

0%@_-SI615365094.wav

MS. BROCK: NRC. Katherine Brock (phonetic).

MR. BARILLO: Yes. This John Barillo. I was calling to be transferred to Lou Brandon.

MS. BROCK: I'm sorry. What is your last name?

MR. BARILLO: Barillo B-A-R-I-L-L-O.

MS. BROCK: All right. I got Tony Bowers (phonetic) here. I think he's calling you to see if you can come help us out.

So, you're a DOE (inaudible). Right?

MR. BARILLO: Actually. Right. Yes. Actually, (b)(6) (b)(6)

MS. BROCK: Are you coming -- when are you coming home? We're -- what's today? Today's the 12th. We're looking for the 14th.

MR. BARILLO: The 14th. What -- help me out. What day is that now?

MS. BROCK: I don't know. We've been in and out of here. So, that's tomorrow.

MR. BARILLO: Yes.

MALE PARTICIPANT: When are you coming

1 back?

2 MR. BARILLO: Well, I could do that. (b)(6)

3 (b)(6)

4

5 MS. BROCK: Well, we're looking to fill a

6 slot tomorrow from 3:00 p.m. to 11:00 p.m.

7 MR. BARILLO: Okay. I -- yes, I can do

8 that.

9 MS. BROCK: All right. It won't interfere

10 with what you got going on too much or --

11 MR. BARILLO: Well, it will. Into my

12 (b)(6)

13

14

15 MS. BROCK: Maybe we could --

16 MR. BARILLO: -- change plans. If you

17 need -- if you really need help, I can change my

18 plans.

19 MALE PARTICIPANT: We can double up.

20 MS. BROCK: You know what? Tony Bowers

21 will call you back in a short -- soon because we hate

22 to -- I mean, (b)(6)

23 MALE PARTICIPANT: Confirm the number.

24 MS. BROCK: We'll see if we can juggle

25 some people around.

1 MALE PARTICIPANT: Confirm the number.

2 MS. BROCK: Get you in here after -- you

3 know, a couple of days later. A day later.

4 MR. BARILLO: Well, all right. In the

5 meantime, I -- yes, okay. I'll keep you available.

6 You know, let me know. I mean I'm definitely willing

7 to help. It's just that it's a --

8 MS. BROCK: You're out. Yes.

9 MR. BARILLO: -- tough timing.

10 MS. BROCK: Okay.

11 MR. BARILLO: Okay. All right.

12 MALE PARTICIPANT: Hey, John.

13 MR. BARILLO: Yes.

14 MALE PARTICIPANT: I just want to confirm

15 your number (b)(6)

16 MR. BARILLO: Correct.

17 MALE PARTICIPANT: Okay. I'll probably

18 give you a call back within the next five minutes.

19 MR. BARILLO: All right.

20 MALE PARTICIPANT: All right.

21 MR. BARILLO: Thank you.

22 MALE PARTICIPANT: Thank you.

23 MS. BROCK: Thanks a lot.

24 MR. BARILLO: All right. Okay. Bye-bye.

25 MS. BROCK: Bye.

1 (CONFERENCE CALL CONCLUDES)

2 (CONFERENCE CALL INITIATED)

3 RECORDING: You have reached the United

4 States Department of Energy Operations Center. Your

5 call is being transferred to a DOE Watch Officer.

6 MR. ADES: Good morning. Thomas Ades

7 (phonetic) speaking. How may I help you?

8 MS. BROCK: Hi, there. This is Katherine

9 Brock from the NRC. I was trying to get a hold of

10 somebody at DOE so that I could get some MET data from

11 NARAC.

12 Okay. Stand by for a second. Your name

13 again please, ma'am?

14 MS. BROCK: Katherine Brock.

15 MR. ADES: Okay. Stand by for a second

16 please, Katherine.

17 MS. BROCK: Thanks a lot.

18 MS. ADES: Katherine, you're connected to

19 Mark.

20 MS. BROCK: Okay. Hi, Mark.

21 MARK: Hi. Good afternoon, Katherine.

22 MS. BROCK: How are you doing?

23 MARK: Good. I guess it's still morning.

24 Isn't it?

25 MS. BROCK: Oh, yes, I don't know. So,

1 I'm calling because I was hoping to get some current
2 MET data. Is that something you can help me with or
3 can I call NARAC directly or how do you do this?
4 MARK: So, what kind of data are you
5 looking for?
6 MS. BROCK: So, I guess wind speed, wind
7 direction.
8 MARK: Wind speed and direction at like
9 the release point or kind of in the whole area at
10 different elevations and --
11 MS. BROCK: What have been using? So, I
12 guess --
13 MALE PARTICIPANT: Let me find out what
14 we've got going.
15 MS. BROCK: I'm sorry. That question was
16 harder than I thought.
17 MARK: Don't worry.
18 MS. BROCK: Asking -- I guess you guys
19 have been sending us --
20 MALE PARTICIPANT: Time, speed --
21 MALE PARTICIPANT: Current.
22 MALE PARTICIPANT: -- and forecast.
23 MALE PARTICIPANT: Time, speed, direction
24 and --
25 MS. BROCK: But, he asked at what

1 elevation.

2 MALE PARTICIPANT: Yes. No, we -- the

3 latest one we got was from Brenda Pobance and it

4 basically had just --

5 MARK: Yes, let me --

6 MS. BROCK: Wind speed, direction, ability

7 class.

8 MALE PARTICIPANT: Yes, it has the time

9 and UTC.

10 MS. BROCK: It has time.

11 MALE PARTICIPANT: Wind speed, ability

12 class and direction.

13 MARK: Okay. Let me see what I can pull

14 together and is there a number I can reach you back

15 at?

16 MS. BROCK: Yes, 301-816-5419.

17 MARK: 301-816-5419.

18 MS. BROCK: Yes.

19 MARK: Great. Let me give you a call back

20 in a couple of minutes.

21 MS. BROCK: Thanks. Bye.

22 (CONFERENCE CALL CONCLUDES)

23

24

25

1 (CONFERENCE CALL INITIATED)

2 0%@T7{3_15365094.wav

3 MR. BASKETT: NARAC. This is Ron Baskett.

4 MR. BRANDON: Hey, Ron. This is Lou

5 Brandon, NRC.

6 MR. BASKETT: Lou Brandon?

7 MR. BRANDON: Yes.

8 MR. BASKETT: Oh, yes. How are you doing,

9 Lou?

10 MR. BRANDON: Doing pretty good. We're

11 just calling to get some perspective on how the runs

12 you're working on are going. Number one, you guys are

13 running Unit 1, Unit 3 and then the combined.

14 MR. BASKETT: Right. Yes.

15 MR. BRANDON: Are you guys going to be

16 able to share that with us at the NRC?

17 MR. BASKETT: Right. Actually, yes, I

18 should have asked that of -- when I was talking with

19 Bill Biell and Dave Bowman. Yes, because we went

20 ahead and shared it with them and I understand you

21 guys are on the share list. So --

22 MR. BRANDON: Okay.

23 MR. BASKETT: -- let me just confirm with

24 them and then share it out to you guys.

25 MR. BRANDON: Okay. And the second

1 question is we've got that worse-case scenario for
2 Grand Gulf.
3 MR. BASKETT: Right.
4 MR. BRANDON: Just in terms of estimated
5 time frame when that might get processed. It should
6 be a lower priority, but we just want to tell our
7 executives what to expect.
8 MR. BASKETT: Yes, Lou, we're -- Michael
9 Dillon's just about done with that and about ready to
10 share it to NIT Op.
11 MR. BRANDON: Okay. They'll do the QC and
12 then release it to us after that?
13 MR. BASKETT: That's correct.
14 MR. BRANDON: All right.
15 MR. BASKETT: Okay.
16 MR. BRANDON: So, we'll stand by for both
17 of those results.
18 MR. BASKETT: All right. Do you want us
19 to call you back when they've been shared?
20 MR. BRANDON: Yes, that would be nice.
21 MR. BASKETT: Okay. On your -- the PMT
22 number of 816-5184?
23 MR. BRANDON: 301-816-5184 is what you
24 asked?
25 MR. BASKETT: Yes.

1 MR. BRANDON: I'm not familiar with that
2 number.
3 MR. BASKETT: Okay. Or just dial the 5100
4 and ask --
5 MR. BRANDON: Fifty-one will get you there
6 for sure.
7 MR. BASKETT: Okay.
8 MR. BRANDON: If you have any trouble with
9 the other number. Yes.
10 MR. BASKETT: Okay.
11 MR. BRANDON: Okay. Thanks, Ron. Talk to
12 you later.
13 MR. BASKETT: Okay. Bye-bye.
14 MR. BRANDON: Bye.
15 (CONFERENCE CALL CONCLUDES)
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1 (CONFERENCE CALL INITIATED)

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3 MALE PARTICIPANT: Naval Reactors.

4 MR. CASTO: This is Greg Casto at the

5 Nuclear Regulatory Commission.

6 MALE PARTICIPANT: One second.

7 MR. CASTO: Okay.

8 MALE PARTICIPANT: Go ahead.

9 MR. LANTZ: This Rick Lantz (phonetic),

10 Director of Radiological Controls. What can I do for

11 you?

12 MR. CASTO: Hi, Rick. We were just on a

13 phone call and got your name to call concerning some

14 information that we got from the USS Ronald Reagan --

15 MR. LANTZ: Right.

16 MR. CASTO: -- concerning some

17 contamination that was picked up on their sample and

18 some readings and also an incident where some of the

19 flight crews have been contaminated after being on a

20 Japanese command ship.

21 MR. LANTZ: Yes, sir.

22 MR. CASTO: Okay. We wanted to discuss

23 that a little bit. When we -- you know, when we got

24 the briefing, it was -- it was kind of general I

25 guess, but we wanted to follow up and get some

1 additional information if we could and you were the
2 contact to get that information.
3 MR. LANTZ: Sure and also recognize I'm
4 going to be getting an update here in the near future,
5 but I'll give you what we have right now.
6 MR. CASTO: Okay. Okay. We've got -- I
7 am at the -- at our operations center.
8 MR. LANTZ: Okay. What's the number
9 there?
10 MR. CASTO: At our headquarters. The
11 number is 301-816-5419.
12 MR. LANTZ: Okay. I have 301-816-5419.
13 MR. CASTO: That's correct.
14 MR. LANTZ: And your name, sir?
15 MR. CASTO: Greg Casto.
16 MR. LANTZ: Greg Casto.
17 MR. CASTO: That's correct.
18 MR. LANTZ: Okay. So, I'll run down what
19 we have right down.
20 MR. CASTO: Okay.
21 MR. LANTZ: And when i get an update, I'll
22 give that to you.
23 MR. CASTO: Okay. Let me give you one
24 more number, too.
25 MR. LANTZ: Sure.

1 MR. CASTO: And that is the number to our
2 operations center officer and if we lose connection or
3 you need to get a hold of us and this number doesn't
4 work, you can call directly into the ops center and
5 they will direct you to us.
6 MR. LANTZ: Okay.
7 MR. CASTO: And that number is 301-816-
8 5100.
9 MR. LANTZ: Okay. 301-816-5100 and that's
10 the ops center officer.
11 MR. CASTO: That's correct.
12 MR. LANTZ: Okay. And just for my own
13 situation we're in here. What's your position at the
14 NRC, sir?
15 MR. CASTO: My position is Protective
16 Action Assistant Director.
17 MR. LANTZ: Protective Action Assistant
18 Director.
19 MR. CASTO: That's correct.
20 MR. LANTZ: Okay.
21 MR. CASTO: Okay.
22 MR. LANTZ: All right. So, this is what
23 we got right now. Ronald Reagan was 100 miles out
24 center line of the plume -- what would be the plume
25 and we're trying to ascertain the exact ship position.

1 But, what we're getting now from meteorological data
2 is that the wind's basically going due east. So, if
3 we assume due east at 100 miles, that gives you an
4 idea roughly where the ship was.
5 MR. CASTO: Okay.
6 MR. LANTZ: So, there's a few things that
7 occurred. One, we have air particulate samplers in
8 our plant and most of the ones in the plants, you
9 know, we have outside ventilation in the carriers,
10 alarmed at 2.5 times 10 to the minus 9th microcuries
11 per milliliter.
12 MR. CASTO: Okay.
13 MR. LANTZ: The ship took backup portable
14 air samplers. So, you know, the -- you know, the hand
15 held air particulate samplers --
16 MR. CASTO: Right.
17 MR. LANTZ: -- that we measure with
18 friskers (phonetic) and they got roughly the same
19 number. Around 2.5 times 10 to the minus 9
20 microcuries per milliliter.
21 MR. CASTO: Okay.
22 MR. LANTZ: I have no information that the
23 ship took a radioiodine sample. Okay.
24 MR. CASTO: Right. Then we heard that as
25 well.

1 MR. LANTZ: Now, we've got some rough
2 thumb rules and it's not entirely clear to me that
3 it's completely applicable to this plant. But, we'd
4 say, you know, if you looked at roughly 80 hours after
5 shutdown, the fraction of your iodine to your
6 particulate would be about .4. So, if I use that,
7 that would put radioiodine somewhere around 1 times 10
8 to the minus 9th.
9 MR. CASTO: Okay. That's contingent on
10 their being a release with radioactive iodine that's
11 a result of a --
12 MR. LANTZ: I'm making that assumption
13 here that --
14 MR. CASTO: Right.
15 MR. LANTZ: -- that's been what's going
16 on.
17 MR. CASTO: Yes, that's -- okay. All
18 right.
19 MR. LANTZ: If that's not true, I could
20 use that information.
21 MR. CASTO: Okay. All right.
22 MR. LANTZ: All right. So, that's one
23 piece. The other piece is we had -- one of the
24 helicopters from Reagan had landed on a Japanese
25 flagship that was supposedly about 50 miles away from

1 the plant. I do not know if that flagship was center
2 line or not.
3 When the helicopter came back and landed
4 on the Reagan, they surveyed first the air crew or the
5 crewmen after they got off of the helicopter and they
6 got roughly 2300 correct counts per minute using a
7 frisker on their shoes and the conversion for our
8 friskers is 100 correct count or 100 counts above
9 background would amount to close to 450 microcuries
10 per 100 centimeters squared which -- and that's the
11 caliber of the cobalt 60. So, you know, depending on
12 energies there, it could be a little off. So,
13 basically if you take 23 times 450 that's about what
14 we were saying equivalent cobalt 60 on their shoes.
15 MR. CASTO: Okay. All right.
16 MR. LANTZ: And there was also some low-
17 level radioactivity on the outside of the helicopter.
18 MR. CASTO: Okay.
19 MR. LANTZ: Additionally, we had another
20 helicopter that was flying around. We don't know
21 exactly where it went, but when it came back on
22 Reagan, they surveyed the crewmen off that helicopter.
23 In that case, we had roughly 400 correct counts at
24 worse case on airmen's clothing and the report we
25 initially got was roughly 100 correct counts on hands

1 of one of the airmen.

2 MR. CASTO: Okay.

3 MR. LANTZ: And 100 correct accounts on

4 cheeks. So, it sounds like fairly widespread, low-

5 level contamination on clothing and skin.

6 MR. CASTO: Okay.

7 MR. LANTZ: And I'll try to get some

8 better numbers there as well.

9 MR. CASTO: Okay. Okay. Now, do you know

10 -- do you have a name for the flagship?

11 MR. LANTZ: I do not. I'll try to get

12 that whenever I get a call.

13 MR. CASTO: All right.

14 MR. LANTZ: I'm suppose to be getting a

15 call on an update. I'll see if I can't get that.

16 MR. CASTO: Okay. Okay. And --

17 MR. LANTZ: What additional information do

18 you need other than that?

19 MALE PARTICIPANT: The accuracy of the

20 center line. I think you already mentioned that.

21 MR. LANTZ: What I know now as things

22 stand is the wind's apparently heading due east. Now,

23 I'm --

24 MR. CASTO: Right.

25 MR. LANTZ: It's been shifting around.

1 So, I'm making an assumption that that was the
2 direction when the carrier was there and I'll see if
3 I can't get an update on that as well.
4 MR. CASTO: Okay. We have some -- we have
5 some MET information that we get from NARAC.
6 MR. LANTZ: Yes, that's where we get ours
7 as well.
8 MR. CASTO: Right. Okay. Okay. You can
9 probably get some variation by the time you get 100
10 miles out maybe, but is there anyway that you can do
11 an isotopic analysis of that particular sample? Do
12 they have the capability on board?
13 MR. LANTZ: (b)(5)
14 (b)(5)
15 MR. CASTO: Okay. Or a single channel
16 analyzer even in taking --
17 MR. LANTZ: No. No, I don't think they
18 have any of that on board.
19 MR. CASTO: All right. Okay. Okay.
20 MR. LANTZ: I'll validate that though.
21 Some of our carriers --
22 MR. CASTO: Okay.
23 MR. LANTZ: -- were getting some updated
24 capability. I don't think Reagan got that, but I'll
25 check.

1 MR. CASTO: Okay. Yes, that would be
2 interesting.
3 MR. LANTZ: Right.
4 MR. CASTO: One thing we might be able to
5 do and this is one problem that we've had. I mean we
6 know that the site has been doing controlled
7 venting --
8 MR. LANTZ: Right.
9 MR. CASTO: -- of their containment.
10 MR. LANTZ: Right.
11 MR. CASTO: And done some releases. Also,
12 Unit 1 when they had the hydrogen explosion to the
13 reactor building also certainly could have -- you
14 know, there could have been some contamination
15 release --
16 MR. LANTZ: Sure.
17 MR. CASTO: -- that was present inside the
18 building. Loose containment. So, that wouldn't be
19 unsuspected.
20 MR. LANTZ: Right.
21 MR. CASTO: But, as much information as we
22 can get including as accurate as far as distance from
23 the unit that the ship was when the air samples were
24 taken, we might be able to extrapolate back to the
25 site and get some idea of the source term releases

1 that are coming from the site.

2 MR. LANTZ: Right.

3 MR. CASTO: And that would help us greatly

4 because that's a piece of information that we've not

5 been able to get.

6 MR. LANTZ: Okay. All right. I will work

7 on doing that. We were trying to get lat and long --

8 MR. CASTO: Okay.

9 MR. LANTZ: -- of the ship. So, that

10 would get you as accurate as you're going to get.

11 MR. CASTO: Okay. That would be great.

12 And once we get that, we can tell if -- if it would be

13 consistent with what we might expect from the

14 activities that we understand they're doing or if

15 there may be releases that are maybe higher than what

16 we'd expect from what we've been hearing.

17 MR. LANTZ: Yes, that's the problem. Is

18 we don't know if this is a continuous release, if it

19 was a burst of some sort. I mean it's --

20 MR. CASTO: Right. Oh, also the time that

21 air sample was taken would be very helpful.

22 MR. LANTZ: Okay. I will work on getting

23 that as well.

24 MR. CASTO: Okay. Because that might

25 coincide with some events.

1 MR. LANTZ: Yes. Right.

2 MR. CASTO: Yes. Okay. Okay.

3 MR. LANTZ: Okay. And in terms of

4 meteorological data, what was the wind speed again,

5 3.5 meters per second? What we were told by NARAC was

6 3.5 meters per second headed due east with a pascal

7 category of delta. Does that match what you have?

8 MR. CASTO: We will look. Due east. I

9 think -- I think we were looking from the southwest

10 though.

11 MALE PARTICIPANT: No, we're headed north

12 from the -- from the west.

13 FEMALE PARTICIPANT: It was moving around.

14 MR. CASTO: Right. And you said due east.

15 That's toward. That's not wind from. Is that

16 correct?

17 MR. LANTZ: That's towards. Correct.

18 MR. CASTO: Right.

19 MR. LANTZ: And that was current. So, you

20 know --

21 MR. CASTO: Okay. The wind from west.

22 MR. LANTZ: Okay. I'll try to get some

23 information as to what we saw with the carrier, too.

24 MR. CASTO: Got it. From to 270 then.

25 Okay.

1 MR. LANTZ: Right. From 270.

2 MR. CASTO: Okay. And stability class

3 delta. Okay.

4 MR. LANTZ: That's what we got. Yes.

5 MR. CASTO: All right.

6 MR. LANTZ: So, we're doing hand calcs to

7 try to figure out -- you know, for perspective. You

8 know, where do we get to the less than 5 times 10 to

9 the minus -- times microcuries milliliter number.

10 MR. CASTO: Right. Right. Now, one of

11 the things -- and when we were on the phone call and

12 I'm not really sure who made this statement, I believe

13 it was the individual that was on the Ronald Reagan

14 that was knowledgeable in the air sample result, he

15 did state that, you know, over so many hours that you

16 would exceed the PAG for protective action and that's

17 -- we don't believe that is the case.

18 MR. LANTZ: For the levels that we saw on

19 the carrier, I would agree with you.

20 MR. CASTO: Yes.

21 MR. LANTZ: The concern is we had provided

22 some guidance to -- I think I understand the concern.

23 We had provided some guidance to the fleet as to, you

24 know, stay outside of this distance. Which, you know,

25 we drew an arc around 50 miles and we said hey, in

1 plume pass, don't come in any closer than 100.

2 MR. CASTO: Okay.

3 MR. LANTZ: The concern is that if there's

4 some sort of continuous vent going on and the ship

5 comes in closer, could we get ourselves in that sort

6 of situation.

7 MR. CASTO: Gotcha. Okay. Yes, he did

8 relate some information that made us believe that they

9 were concerned about exceeding the PAG. Now, that PAG

10 could be some, you know, self-imposed internal limit

11 that they were --

12 MR. LANTZ: Right. And back to your

13 original point, I mean, you know, some of the

14 assumptions we're making is based on a more intact

15 plant and closer to one of our plants and --

16 MR. CASTO: Right. We're doing the same

17 thing and yes, we understand. Okay.

18 MR. LANTZ: So, it's a little challenging

19 to try to come up with that, but I think, you know, at

20 this time assuming, you know, you're at 80 hours after

21 shutdown, you know, a fraction of .4 is probably not

22 unreasonable assuming it's from core damage.

23 MR. CASTO: Right. Right. And we do --

24 we have gotten some indication that Unit 1 did have

25 possibly some minor core damage.

1 MR. LANTZ: Right.

2 MR. CASTO: Yes.

3 MR. LANTZ: Okay. So, when I get more

4 information, I'll touch back with you. We'll compare

5 notes.

6 MR. CASTO: Okay. Appreciate that. Now,

7 for this upcoming shift, we're getting ready to turn

8 over. So, Katherine Brock would be your contact.

9 MR. LANTZ: Katherine Brock.

10 MR. CASTO: Katherine Brock. At this same

11 number and she will be the Protective Action Assistant

12 Director.

13 MR. LANTZ: Okay. I got it.

14 MR. CASTO: Okay.

15 MR. LANTZ: Thank you.

16 MR. CASTO: Well, thank you. Appreciate

17 it.

18 MR. LANTZ: Yes. Bye.

19 MR. CASTO: Bye.

20 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 MS. HART: NRC. This is the PMT. This is

4 Michele Hart.

5 MR. BASKETT: This is Ron Baskett from

6 NARAC calling for Lou -- Lou Brandon.

7 MS. HART: Just a moment.

8 MR. BASKETT: Thank you.

9 MS. HART: Lou, Ron Baskett.

10 MR. BRANDON: Hello, Ron.

11 MR. BASKETT: Hi, Lou. So, you should

12 have share 2 and the NARAC calculations. The six --

13 series of six runs of -- for -- and they're called set

14 2.

15 MR. BRANDON: Okay.

16 MR. BASKETT: And they're labeled Unit 1

17 10 percent, Unit 1 100 percent and then Unit 3 and

18 then Unit 1 plus 3.

19 MR. BRANDON: Okay. Excellent.

20 MR. BASKETT: So, it should be there.

21 MR. BRANDON: All right. We'll look for

22 that one, print it out and share it here and then is

23 that Grand Gulf one that's still coming. Right?

24 MR. BASKETT: That's right. Yes, we're

25 still working that. There -- there will be a -- the

consequence report will have all the plots in it, but I think -- I'm not sure which plots. You may want to look at specific plots in the --

MR. BRANDON: Yes.

MR. BASKETT: The largest thing, of course, the -- well, it's the early evacuation, radioiodine.

MR. BRANDON: Okay.

MR. BASKETT: All right.

MR. BRANDON: All right. Thanks, Ron, for calling.

MR. BASKETT: Okay. Catch you later. Um-hum.

MR. BRANDON: We'll pick it up.

MR. BASKETT: Um-hum. Okay. Bye-bye.

MS. HART: Bye.

(CONFERENCE CALL CONCLUDES)

1 (CONFERENCE CALL INITIATED)

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3 MR. FOSTER: NRC Operations Center PMT.

4 MR. RUSSO: Good morning. This is Nate

5 Russo in the NIT. I was calling with a few questions.

6 MS. BROCK: Okay. We're just getting the

7 volume up. Speak up again. Sorry.

8 MR. RUSSO: Good morning. My name is Nate

9 Russo. I'm calling from the DOE NIT.

10 MS. BROCK: Hey, there, Nate. This is

11 Kathy Brock and Jack Foster.

12 MR. RUSSO: Hi, there. I was calling --

13 we're -- we heard reports that Reactor 3 at Fukushima

14 Daiichi might be moc fuel instead of -- and we were

15 wondering if that would change the source term that we

16 should be working with.

17 MR. FOSTER: Hold on a --

18 MS. BROCK: Hang on just a second. We're

19 going to get the reactor guys who know the answer

20 to --

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1 (CONFERENCE CALL CONTINUES)

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3 MS. BROCK: Nate, are you going to be here

4 all day?

5 MR. RUSSO: Yes.

6 MS. BROCK: Okay. Good. Because I just

7 got here a while ago.

8 MR. RUSSO: Yes, we just changed to seven.

9 MR. FOSTER: Is this DOE?

10 MS. BROCK: This is DOE. Yes.

11 MR. FOSTER: (Inaudible).

12 MS. BROCK: Yes, that's what we were just

13 doing.

14 MR. FOSTER: All right.

15 MS. BROCK: So, Nate, is there anybody

16 else that I should write down their names?

17 MR. RUSSO: Yes. In the NIT today --

18 MS. BROCK: Um-hum.

19 MR. RUSSO: -- Steve Luke (phonetic).

20 MS. BROCK: Luke.

21 MR. RUSSO: Yes, Steve Luke.

22 MS. BROCK: Oh, Steve Luke. Okay.

23 MR. RUSSO: Yes, two first names.

24 MS. BROCK: All right. Good.

25 MR. RUSSO: Mark Brightenger (phonetic).

1 MS. BROCK: Okay.
2 MR. RUSSO: Chris Smith.
3 MS. BROCK: Okay.
4 MR. RUSSO: And Bob Gerald (phonetic).
5 MS. BROCK: Okay. Good. All right. So,
6 we got a question for you. I'm sorry. Not for you.
7 I'm talking --
8 MR. FOSTER: Okay. Who are you talking
9 to?
10 MS. BROCK: This is Nate Russo. He's from
11 the DOE NIT and his question is he heard that Reactor
12 3 might have moc fuel. So, that's question number
13 one. They need the answer to that. This is Daiichi?
14 MR. RUSSO: Yes, Daiichi.
15 MR. FOSTER: I heard the same -- I heard
16 the same thing, but I don't have confirmation of that.
17 We're having another call coming from somebody who
18 either is in Japan or has direct contact with Japan at
19 this time. I mean soon, very soon and we'll be --
20 MR. RUSSO: Right.
21 MR. FOSTER: Can confirm that and that.
22 After that call.
23 MR. RUSSO: And the question we have for
24 our modelers is if it's moc fuel, does that
25 significantly change the source term? I know we're

1 just going on estimates for --

2 MS. BROCK: I don't think we'd do anything

3 different here.

4 MR. FOSTER: At this point, I would say

5 no.

6 MS. BROCK: No.

7 MR. FOSTER: (Inaudible).

8 MS. BROCK: The answer --

9 MR. FOSTER: All (inaudible).

10 MS. BROCK: We're thinking no.

11 MR. FOSTER: But, we'll get --

12 MS. BROCK: But, we'll --

13 MR. FOSTER: Because the enrichment

14 doesn't really change.

15 MS. BROCK: Yes, but we can think about

16 that and ask around, too.

17 All right. So, we'll have to get back to

18 you on your question.

19 Do you have any other questions that we

20 could ask for you? Is there something you need?

21 MR. RUSSO: No. No, that's it and we're

22 working to confirm the moc fuel as well. So, if we

23 find anything out, we'll contact you with that as

24 well.

25 MS. BROCK: Okay.

1 MR. FOSTER: Okay. What's your number,
2 Nate?
3 MS. BROCK: I got it right here (b)(6)
4 (b)(6) or no. No, it's 202-586-8100.
5 MR. RUSSO: Correct. Correct.
6 MS. BROCK: Yes.
7 MR. FOSTER: Okay. Thanks.
8 MS. BROCK: Very good.
9 MR. RUSSO: And we're not changing our
10 source term estimate (inaudible).
11 MR. FOSTER: Right.
12 MS. BROCK: As of right now, no.
13 MR. RUSSO: Okay. Do you have any
14 questions for us?
15 MS. BROCK: I don't think so.
16 MR. RUSSO: Okay.
17 MS. BROCK: I don't know enough to ask a
18 question right now.
19 MR. RUSSO: And I'm sorry. I missed your
20 name.
21 MS. BROCK: Kathy Brock and Jack Foster.
22 MR. RUSSO: And Jack Foster.
23 MS. BROCK: Yes.
24 MR. RUSSO: All right. Great.
25 MS. BROCK: Thank you.

1 MR. FOSTER: Thanks, Mr. Russo.

2 MR. RUSSO: Thanks so much.

3 MS. BROCK: Yes. Bye.

4 MR. RUSSO: Okay. Bye-bye.

5 (CONFERENCE CALL CONCLUDES)

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MS. BROCK: Operations Center, NRC. Katherine Brock.

MR. RUSSO: Hi, Kathy. It's Nate Russo again.

MS. BROCK: Hey.

MR. RUSSO: We had a couple of -- we have a question and a request.

One is that we need an email saying that the -- like to NIT Ops that's saying that the NRC doesn't think that the moc would change the -- would have a significant difference in source term over whatever the normal reactor fuel would be. Enriched uranium.

MR. WATSON: And probably the reason why, too. Right?

MR. RUSSO: And probably the reason why. Yes. Because we need this to come out of our change. The confirmation.

MS. BROCK: So, wait. Hang on. Go ahead and this is Bruce Watson. He's --

MR. WATSON: Yes, at this point, we don't even know the age of the cores and so, I don't know that the moc difference makes any significance.

1 Because we don't know if they're at the beginning of
2 the fuel cycle or the end of that fuel cycle run.
3 MS. BROCK: So, he's saying that it's all
4 just part of the speculation that we have.
5 MR. WATSON: Yes.
6 MS. BROCK: We don't know for sure.
7 MR. WATSON: Well, no, it may be, but I
8 mean there's other variables. We don't know if they
9 were at the end of core life or the beginning of core
10 life.
11 MS. BROCK: Um-hum.
12 MR. WATSON: So, that would make a
13 significant change.
14 MS. BROCK: So, the (inaudible) can make
15 changes other than just moc fuel?
16 MR. WATSON: In inventory. Yes, there's
17 other -- yes. So, we don't know. There's too many
18 variables.
19 MS. BROCK: So, what is your management
20 needing that they want an email?
21 MR. RUSSO: Do you want to talk about
22 those? Well, I --
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1 (CONFERENCE CALL INITIATED)

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3 MR. BOWMAN: Hi, Kathy. This is Dave

4 Bowman over at the NIT.

5 MS. BROCK: Hey, there.

6 MALE PARTICIPANT: Hey, Dave.

7 MR. BOWMAN: Hey. So, I guess you talked

8 -- you're talking to Nate about the information we've

9 gotten about using the moc fuel in the Unit 3.

10 MALE PARTICIPANT: Um-hum.

11 MS. BROCK: Yes.

12 MR. BOWMAN: Okay. And so, I'm sorry.

13 I'm just coming up, but Nate said he talked to you and

14 your response was that this wouldn't make that much of

15 a difference as far as source term goes.

16 MS. BROCK: Yes, you know, just as far as

17 plugging in models and things. I think we'd still

18 expect that the source term wouldn't change, but

19 again, it's one of many, many variables that --

20 MR. BOWMAN: Okay. I understand that.

21 But, there's going to be a perception just because of

22 what's in moc fuel. So, if you wouldn't mind, could

23 you just write us a little email so that we can

24 document, you know, NRC says that -- and I understand

25 you'll have to caveat it within all the other

uncertainties or whatever. But, I'd just -- if it's not too much trouble, if you could just send us a little email that says, you know, based on your expertise, the difference between low-enriched uranium and moc at this stage of the analysis really isn't going to make any difference for source term.

MS. BROCK: So, your management needs that or what is the -- I'm just trying to understand the root of it.

MR. BOWMAN: Yes, I mean that's basically it. Yes, I mean we will report it, but I'd just like to -- if we could have an email from NRC I think it would carry a little more weight and you know.

MS. BROCK: Okay. But, see that -- that's what we're worried about. We're happy to send emails in support, you know, for helping us. You've been helping us, but I'm not sure that it -- to us, it doesn't matter that much and --

MALE PARTICIPANT: You know, if there is a -- if there is a concern, perhaps you should run one with moc, you know. But, I wouldn't put that out --

MS. BROCK: Can we do that and --

MALE PARTICIPANT: No, we can't.

MS. BROCK: See we can't make those runs. So, we have nothing to back it up.

1 MALE PARTICIPANT: That fuel --

2 MS. BROCK: Is the problem. It's

3 speculation. We can't back up what we're saying.

4 MR. BOWMAN: Okay.

5 MS. BROCK: Know what I mean?

6 MR. BOWMAN: Okay.

7 MS. BROCK: Can you guys do those kinds of

8 runs?

9 MR. BOWMAN: I don't know, but --

10 MS. BROCK: No, we're the ones that come

11 up with the first place.

12 MR. BOWMAN: (Inaudible) coming in the

13 room for me. No. So.

14 MS. BROCK: We're the ones that come up

15 with the first --

16 MR. BOWMAN: Okay.

17 MS. BROCK: Which means that we'd have to

18 be the ones to do the run.

19 MALE PARTICIPANT: Right.

20 MS. BROCK: All right. So, we want to

21 help you.

22 MR. BOWMAN: I understand.

23 MS. BROCK: So, we can --

24 MR. FOSTER: You know, I think that what

25 -- this is Jack Foster. You know, if you think about

1 the variables associated with the source term, a lot
2 of it has to do with the -- you know, the beginning of
3 the cycle or the end of the cycle when it comes to
4 burn up and, you know, we don't even know where they
5 were at in that respect as you're probably aware of.
6 MR. BOWMAN: Right.
7 MR. FOSTER: The biggest -- you're right.
8 The perception of having moc fuel is -- you know, adds
9 a degree of, you know, public fear I guess.
10 MR. BOWMAN: Exactly. Yes.
11 MR. FOSTER: Um-hum. But, the actual real
12 issue here is to determine when in that cycle the time
13 frame was when the release or when the -- you know,
14 where we're at right now.
15 Small wing nut, you know, being moc fuel
16 on whether or not, you know, the source changes.
17 MS. BROCK: But, can we tell them that in
18 an email?
19 MR. FOSTER: Yes, but, you know, the only
20 thing is I'm worried about, you know, that, you know,
21 if it -- if it is a certain part of the cycle that the
22 moc fuel might have more of an impact, you know, and
23 we can figure something out. I'll get Bruce to gin up
24 something maybe and --
25 MS. BROCK: All right. Do we have your

1 email address? I know -- I think you've sent us
2 emails, but --
3 MR. FOSTER: But, you see what I'm saying.
4 Basically, we -- it really is a case of bigger fish to
5 fry to find out where in the cycle we are. That's
6 where you're going to be able to kind of fine tune the
7 analysis.
8 MR. BOWMAN: Okay.
9 MR. FOSTER: Now, if we told you that it
10 made a difference, I don't know if that would make a
11 difference in whether -- you know, how you should
12 proceed with --
13 MR. BOWMAN: I understand.
14 MR. FOSTER: You know, I mean I don't
15 think it's going -- if we told you yes, it will a
16 little bit, you know --
17 MR. BOWMAN: Yes.
18 MR. FOSTER: -- what would you do with
19 that, you know?
20 MR. BOWMAN: I mean we're not looking to
21 -- I think I agree with where you're going. This is
22 a detail.
23 MR. FOSTER: It's sort of a moot --
24 MR. BOWMAN: But, we just want to have
25 something, you know, that's --

1 MS. BROCK: See our public affairs is not
2 going out with any kind of details like that and I
3 wouldn't want your public affairs to have something
4 based on, you know, chit chat we've had.
5 MR. BOWMAN: NRC said this. Then --
6 MS. BROCK: You know what I mean?
7 MR. BOWMAN: I do think I -- I do think,
8 you know, considering the --
9 MR. FOSTER: Well, so, I mean I -- I hear
10 you, but I think at some point, you know, NRC or NRC
11 and DOE are going to have to say that there's -- make
12 a formal statement that, you know, moc fuel isn't
13 going to make any difference as far as source terms.
14 MS. BROCK: How about we do this? We're
15 in the process now of developing Qs and As because our
16 chairman's going to be briefing Congress in a couple
17 of days. So, why don't we put that on our list of
18 things to consider for our Qs and As and when we come
19 up with an answer, we'll let you know.
20 MR. BOWMAN: Okay.
21 MS. BROCK: How about that?
22 MR. BOWMAN: Okay.
23 MS. BROCK: Sounds good?
24 MR. BOWMAN: Okay.
25 MR. FOSTER: Okay.

1 MS. BROCK: So, we'll get back to you one
2 way or the other on that.
3 MR. FOSTER: Thanks, Dave.
4 MR. BOWMAN: Okay. Thank you.
5 MS. BROCK: Thank you. Bye.
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3 MALE PARTICIPANT: NARAC. (Inaudible).

4 MR. FOSTER: Hi, I'd like to talk to Rick

5 Lantz please.

6 MALE PARTICIPANT: Just a moment. Who's

7 calling?

8 MR. FOSTER: NRC Operations Center. This

9 is Jack Foster.

10 MALE PARTICIPANT: Just a moment.

11 MR. LANTZ: Lantz.

12 MR. FOSTER: Hi, Rick. This is Jack

13 Foster at the Ops Center, NRC.

14 MR. LANTZ: Hi.

15 MR. FOSTER: I have a couple of guys here

16 that are starting to do the calculations and we wanted

17 to verify the data that you gave us associated with

18 the --

19 MR. LANTZ: About 7:15 this morning.

20 MR. FOSTER: About 7:15 this morning. So,

21 I'll let them take over.

22 MR. LANTZ: Hey, if you guys give me about

23 ten minutes, I will have some new data that's just

24 popping up on our screen and I can call you back.

25 MR. FOSTER: Awesome. Do that. That

1 would be great.

2 MR. LANTZ: I have 301-816-5419.

3 MR. FOSTER: Yes.

4 MR. LANTZ: All right.

5 MR. FOSTER: Yes, sir.

6 MR. LANTZ: I'll give you a call.

7 MR. FOSTER: Thanks, Rick.

8 MR. LANTZ: Bye.

9 (CONFERENCE CALL CONCLUDES)

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3 MS. BROCK: NRC Ops Center. Hello?

4 MR. RUSSO: Hello. Is this Kathy?

5 MS. BROCK: Yes, it's me.

6 MR. RUSSO: Hi. It's Nate Russo again.

7 MR. BOWMAN: How are you doing?

8 MR. RUSSO: We were just wondering is

9 there -- should we be sending our emails to

10 PMT02.hoc@nrc.gov?

11 MS. BROCK: Yes, what is it? PMT02 --

12 MALE PARTICIPANT: What's the email?

13 MS. BROCK: Something.

14 MALE PARTICIPANT: Well, they need the

15 whole thing. So.

16 MALE PARTICIPANT: Hold on just a second,

17 Nick.

18 MR. RUSSO: Okay.

19 MALE PARTICIPANT: Nate. Sorry.

20 MS. BROCK: We just got off the phone with

21 the Navy and we got some more air sample data. So,

22 we're going to start plugging along with that.

23 MR. RUSSO: Okay. Our people have been

24 talking with the Navy as well.

25 MS. BROCK: You know what? We've got

1 something that was found on a drudge report today.
2 Well, it shows a plot of horrendous doses hitting the
3 United States and it has NST letterhead on it.
4 Now, we didn't do it. You guys -- have
5 you guys put anything out that somebody could have
6 contorted into an NRC document?
7 MR. RUSSO: No.
8 MALE PARTICIPANT: If you want to see it,
9 it's at www.japan.org and it kind of -- our OPA,
10 public affairs, are kind of jumping around going who
11 put this out, you know, without us --
12 MR. RUSSO: www.japan.org.
13 MS. BROCK: Yes.
14 MALE PARTICIPANT: Yes.
15 MS. BROCK: So, just so you know, we
16 didn't do that.
17 MR. RUSSO: I don't doubt it.
18 MS. BROCK: You guys -- yes.
19 MALE PARTICIPANT: It shows a plume
20 starting in Japan on the -- you know, on the eastern
21 or western side of the Pacific and basically going all
22 the way to, you know, Wichita, Kansas, you know. Up
23 in --
24 MS. BROCK: And it shows time frames.
25 Like it'll be two hours. What is it?

1 MALE PARTICIPANT: Yes, couple of hour
2 time frame, you know.
3 MS. BROCK: So, they'll have to get that
4 taken down, but be nice if we could make beautiful
5 (inaudible) like that. But, we can't.
6 All right. Do you guys have the website
7 yet or the email address? What do you think it is?
8 MALE PARTICIPANT: PMT02 --
9 MS. BROCK: PMT02.
10 MALE PARTICIPANT: Yes, capital P capital
11 M T02 hoc@nrc.gov.
12 MS. BROCK: So, a space in it. Is it a
13 dot?
14 MALE PARTICIPANT: Space.
15 MS. BROCK: Or an underscore. Wait. I'm
16 sorry, Nate. What do you have for us?
17 MR. RUSSO: I think we have -- it's
18 PMT02.hoc@NRC.gov.
19 MS. BROCK: I think that's it.
20 MALE PARTICIPANT: All right. Give that
21 a try. We'll --
22 MS. BROCK: Give it a try and if we don't
23 get it, we'll -- what are you printing up?
24 MR. RUSSO: It's some questions for --
25 MS. BROCK: For whoever.

1 MR. RUSSO: -- that we were trying to send
2 over.
3 MS. BROCK: All right. Thank you.
4 MR. RUSSO: Okay.
5 MS. BROCK: Thank you. Sorry about that.
6 MR. RUSSO: Yes.
7 MS. BROCK: Bye.
8 MR. RUSSO: No problem.
9 MALE PARTICIPANT: Bye.
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3 MR. FOSTER: NRC.

4 MALE PARTICIPANT: Hi. This is the Ops

5 Officer. Is there a Mr. Foster over that?

6 MR. FOSTER: Yes.

7 FEMALE PARTICIPANT: There's is.

8 MALE PARTICIPANT: Okay. Jack Foster?

9 MR. FOSTER: Yes, that would be me.

10 MALE PARTICIPANT: Okay. I got somebody

11 from Naval Reactors who wants to talk to you. I'm

12 going to hang up this line and then transfer him over

13 to you.

14 MR. FOSTER: Okay. Thank you very much.

15 (CONFERENCE CALL CONCLUDES)

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1 (CONFERENCE CALL INITIATED)

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3 MR. FOSTER: Hey, Rick.

4 MR. LANTZ: Yes.

5 MR. FOSTER: Jack Foster. I got Katherine

6 Brock and host of others here. So, give us all the

7 information you got.

8 MR. LANTZ: Yes. Okay. You ready to

9 record because I have time, lat/long and values.

10 MR. FOSTER: Okay.

11 MR. LANTZ: All right.

12 MS. BROCK: We'll make a chart. Let's do

13 it.

14 MR. LANTZ: Okay. And one data plan I'm

15 going to validate and I'll point that out when we get

16 there.

17 MR. FOSTER: Okay.

18 MR. LANTZ: All right. So, the first one

19 I have here is at 0530 zulu.

20 MS. BROCK: Okay.

21 MR. LANTZ: And that was at 38-26 north

22 and 142 --

23 MR. FOSTER: Thirty-eight.

24 MS. BROCK: Wait. Wait. Thirty-eight.

25 MR. LANTZ: Dash 26 North and 142-29.7

east. So, that's the location.

MR. FOSTER: Okay.

MR. LANTZ: And it was a port water sample reading of 3 times 10 to the minus 9th microcuries per milliliter.

MR. FOSTER: Say that again, Rick.

MR. LANTZ: Three times 10 to the minus 9th microcuries per milliliter.

MS. BROCK: All right.

MR. LANTZ: Got that one?

MR. FOSTER: Yes.

MR. LANTZ: All right. The data point 0730 zulu and it was taken at 38-23 north and 142-36 east and it was a value of 1.25 times 10 to the minus 8th microcuries per milliliter. That data point I'm getting validated because that is an order of magnitude higher than what was seen elsewhere.

MS. BROCK: Okay.

MR. LANTZ: All right. The next data point taken at 0930 zulu. Location is 38-31.7 north and 143-33.3 east.

MS. BROCK: Okay.

MR. LANTZ: The value is 2 times 10 to the minus 9th microcuries per milliliter.

MR. FOSTER: Can you repeat that? It was

1 0930.

2 MR. LANTZ: Yes, 0930 zulu.

3 MR. FOSTER: Okay.

4 MR. LANTZ: Taken at 38-31.7 north.

5 MR. FOSTER: Okay.

6 MR. LANTZ: And 143-33.3 east.

7 MR. FOSTER: Okay.

8 MR. LANTZ: And the value is 2 times 10 to

9 the minus 9th microcuries per milliliter.

10 MR. FOSTER: Okay.

11 MR. LANTZ: All right.

12 MALE PARTICIPANT: Great.

13 MR. LANTZ: The next data point also taken

14 at 0930 zulu was a direct gamma reading. So, roughly

15 taken at waist level with a gamma probe and that was

16 0.3 millirem per hour.

17 MS. BROCK: Okay. We just got off the

18 phone with the Ronald Reagan.

19 MR. LANTZ: Yes.

20 MS. BROCK: And the numbers are about the

21 same, but they're not the same.

22 MR. LANTZ: I'm sorry. You got off the

23 phone with the Ronald Reagan you said?

24 MALE PARTICIPANT: It was somebody from --

25 MS. BROCK: It was somebody from the

1 Ronald Reagan.

2 MR. LANTZ: The aircraft carrier?

3 MS. BROCK: Yes.

4 MR. LANTZ: Okay. I didn't realize they

5 were calling in to the NRC.

6 MALE PARTICIPANT: Troutman (phonetic).

7 MR. FOSTER: Yes. He said Steve Troutman.

8 MALE PARTICIPANT: Reactors.

9 MR. LANTZ: Oh. Oh. Oh, that would be

10 Mr. Troutman.

11 MR. FOSTER: Yes, Naval Reactors.

12 MR. LANTZ: Yes, he works in Naval

13 Reactors. He's not on the carriers.

14 MS. BROCK: Oh.

15 MR. FOSTER: Okay. Yes, that's what I

16 figured. Okay. We got a report of a --

17 MS. BROCK: But, that's where the readings

18 came from.

19 MR. FOSTER: Yes, we got a report that

20 they had a sky shine above the Ronald Reagan of 0.6

21 millirem per hour gamma.

22 MR. LANTZ: Yes, I'm giving you guys the

23 history. That's further on down the line here.

24 MR. FOSTER: Oh. Okay. Oh. We're

25 getting to it. Okay.

1 MS. BROCK: All right.

2 MR. FOSTER: We're sorry to interrupt.

3 MR. LANTZ: No problem. All right. The

4 next data point and unfortunately, it's not temporal

5 sequence here, but it was 0530 zulu. Taken at 38-26

6 north and 142-29.7 east and the value is 3 times 10 to

7 the minus 9th microcuries per milliliters.

8 MS. BROCK: Okay.

9 MR. LANTZ: The next data point taken at

10 0730 zulu. Taken at 38-23 north and 142-36 east and

11 that one is also 1.25 times 10 to the minus 8th. So,

12 wherever the ship was, they must have been -- I'm

13 guessing that must be right center line.

14 MS. BROCK: So, you're saying there were

15 two measurements taken at both those times that were

16 the same?

17 MR. LANTZ: Yes, there's two separate --

18 MS. BROCK: Okay.

19 MR. LANTZ: -- 1.25 to minus 8th

20 microcuries per milliliter data point.

21 MS. BROCK: Okay. Great.

22 MR. LANTZ: Okay. The next data point

23 also portable air sample was taken at 0930 zulu.

24 Location was 38-31.7 north and 143-33.3 east and the

25 value is 2 times 10 to the minus 9th microcuries per

1 milliliter.

2 MS. BROCK: Okay.

3 MR. LANTZ: Also, at that time -- also, at

4 that time, 0930 zulu, there was a direct gamma reading

5 of .3 millirem per hour.

6 MR. FOSTER: Same location?

7 MR. LANTZ: Yes, same location.

8 The next data point is 0845 zulu.

9 Location is 38-29.8 north and 143-10.7 east and it has

10 a range of .6 to .9 millirem per hour. So, that's a

11 direct gamma reading.

12 MS. BROCK: Okay.

13 MR. LANTZ: And then at 0945 zulu at

14 location 38-32.3 north and 143-40.8 east, we have a

15 direct gamma reading of .7 millirem per hour.

16 MS. BROCK: Okay.

17 MR. LANTZ: I have a 1000 zulu --

18 MR. FOSTER: Can we go back and repeat

19 that one?

20 MR. LANTZ: The 0945 data point?

21 MR. FOSTER: Yes.

22 MR. LANTZ: Okay, 0945 zulu --

23 MR. FOSTER: Um-hum.

24 MR. LANTZ: -- location 38-32.3 north 143-

25 40.8 east and it was 0.7 millirem per hour gamma.

1 MR. FOSTER: Okay.

2 MR. LANTZ: So, that's all in the same

3 range as the previous data point.

4 MR. FOSTER: Yes. Thank you.

5 MR. LANTZ: Yes. Then we have 1000 zulu

6 data point taken at 38-37.9 north and 143-42 east and

7 I have .6 millirem per hour gamma and those are the

8 data points I have right now.

9 MS. BROCK: Fantastic. Thank you.

10 MR. LANTZ: And we have passed the same

11 data on to NARAC. So, they can use that to refine

12 their plots.

13 MS. BROCK: Okay. And so, what we had

14 heard on our last call was because the lat lines don't

15 mean anything to me in my little brain, but that it's

16 about 100 nautical miles from the site?

17 MR. LANTZ: That was the report.

18 MS. BROCK: Okay.

19 MR. LANTZ: And certainly, the initial

20 find or (inaudible) activity, they were just outside

21 the 100 mile radius from the site and --

22 MS. BROCK: Okay.

23 MR. LANTZ: -- we were told they were

24 center line. We're working on plotting all the lats

25 and longs on our end as well just to get a better

1 visual of what we're talking about.

2 MR. FOSTER: The 9:30 and 10:00 one, do

3 you have a rough idea about how far away that was

4 from --

5 MR. LANTZ: 9:30/10:00, I don't. When I

6 get some distances, I'll pass that along to you all.

7 MR. FOSTER: Excuse me. 9:45, yes, 10:00.

8 Okay. I --

9 MR. LANTZ: You can plot all this out I

10 think in Google maps if you want.

11 MR. FOSTER: Yes. Yes.

12 MS. BROCK: Well, we need a GSA data

13 commitment.

14 MR. FOSTER: Yes.

15 MS. BROCK: All right. Hey, we appreciate

16 it.

17 MR. LANTZ: No problem.

18 MS. BROCK: Thanks.

19 MR. LANTZ: Hey, by the way, do you guys

20 have my direct line if you need to get hold of me?

21 MR. FOSTER: That would be 5993?

22 MR. LANTZ: That would be it.

23 MR. FOSTER: Okay.

24 MR. LANTZ: All right.

25 MS. BROCK: Thanks.

1 MR. LANTZ: Take care.

2 MR. FOSTER: Thank you, Rick.

3 MS. BROCK: Bye.

4 MR. LANTZ: Bye.

5 (CONFERENCE CALL CONCLUDES)

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Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi Audio File Protective Measures Team - Day 4

Docket Number: n/a

Location: n/a

Date: March 14, 2011

Work Order No.: NRC-1100 Pages 1-240

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3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI AUDIO FILE

5 PROTECTIVE MEASURES TEAM

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7 FRIDAY

8 MARCH 14, 2011

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3 (CONFERENCE CALL INITIATED)

4 MR. LUBINSKI: Hi. This is NRC, John

5 Lubinski speaking.

6 MR. ULSES: This is Tony Ulses from over

7 in Japan calling. I wanted to talk about the email

8 request I got from you all for some -

9 MR. LUBINSKI: Great.

10 MR. ULSES: -- for some source term data

11 and anything we got here. I just want to talk to you

12 about some of what I got here and see if it will fit

13 your needs.

14 MR. LUBINSKI: Are you with Jim Trapp

15 also?

16 MR. ULSES: Actually Jim is not here. He

17 is out briefing the Ambassador right now.

18 MR. LUBINSKI: Okay. Let me grab a couple

19 of other people. This is John Lubinski and Greg Casto,

20 and we are going to get some other people in here since

21 we've got you on the line and can get information from

22 you. I want to make sure we get a full list of

23 questions.

24 MR. ULSES: Okay, great. Thanks.

25 MR. LUBINSKI: Okay, Tony?

1 MR. ULSES: Yes, sir.

2 MR. LUBINSKI: You there?

3 MR. ULSES: I'm here.

4 MR. LUBINSKI: Okay. So you were going to

5 give us an update?

6 MR. ULSES: Well, I got the email from

7 Greg seeking some information on their releases and

8 anything we know about the source term.

9 MR. LUBINSKI: Okay.

10 MR. ULSES: Now what we have here, and I

11 think we have actually have an update of this too, and

12 I'll fax you both of them.

13 We just left the meeting with NISA, some

14 MOPA and some METI folks a little bit ago and they gave

15 us what we think is the most up-to-date information we

16 have from their fixed detector sources and they

17 apparently have like a car to drive around, actually

18 taking measurements too.

19 So I will get that to you. We have to get

20 it translated first and then I'll get it to you.

21 Essentially what we have, again, are, we

22 have measurement information at different time

23 intervals at the six or seven different locations

24 around the plant and it is pretty clear from looking at

25 the data when they vent, when you can see a big spike

1 in the measurement, but in terms of volume, that's
2 going to be tricky, and in terms of what the pressures
3 are, all I can do is speculate.
4 We've had some information that they had
5 been waiting until the pressure gets to about twice
6 design, roughly 90 pounds or something like that, and
7 then they'll vent.
8 We probably ought to be able to make a
9 pretty good guess knowing how long the vent went based
10 on this RADS data here to be able to estimate what the
11 volume that was released.
12 So if I give you that kind of stuff,
13 hopefully you guys can put something together.
14 MR. LUBINSKI: That sounds great. And
15 you're going to fax that over to us?
16 MR. ULSES: Yes, I am going to fax you
17 this one. I have one that is translated now. This is,
18 this goes up through, I think this goes up through,
19 this goes up through the end of the 13th local time,
20 and then we've got another set of data from them we
21 just got literally a few minutes ago and we're working
22 on translating it right now.
23 MR. LUBINSKI: Great.
24 MR. ULSES: So I'll fax that over once
25 that I get that. So I'll send this to you. Why don't

1 guys try and digest it.

2 Do you guys have a map of where the

3 radiation detection stations are around the site?

4 MR. LUBINSKI: We've got one that, it

5 lists them as MP1 through 8.

6 MR. ULSES: That's correct. I think they

7 are only giving us data for MP1 through 6 on this.

8 MR. LUBINSKI: Yes, okay.

9 MR. ULSES: As best as I can tell, but.

10 MR. LUBINSKI: Considering the wind

11 direction, I am not surprised. But okay.

12 MR. ULSES: Okay. Well now I also sent,

13 I'm sorry, go ahead.

14 MR. CASTO: Aren't all those, I mean,

15 isn't the wind blowing out to sea and aren't these

16 detectors up wind?

17 MR. ULSES: That's correct. Now also bear

18 in mind though that we're hearing from our NRSA

19 colleagues here that they're predicting the weather

20 patterns to shift with the prevailing winds heading

21 south towards Tokyo as of tomorrow.

22 So they are predicting a shift in the

23 weather.

24 MR. LUBINSKI: Yes.

25 MR. ULSES: So we got to bear that in mind

1 as well.

2 MR. LUBINSKI: And that's tomorrow afternoon,

3 correct?

4 MR. ULSES: Best as I understand it, yes.

5 MR. CASTO: Okay. And I'm sorry to be a

6 little bit slow, but regarding the venting that is

7 being considered, this is for Unit 2?

8 MR. ULSES: Right now they, as I

9 understand it, they are venting. They are actually

10 venting, as I understand it, periodically all the

11 units. That's kind of the best information we have at

12 this point.

13 You guys heard about the explosion in Unit

14 3 that happened this afternoon?

15 MR. LUBINSKI: No.

16 MR. CASTO: Yes.

17 MR. LUBINSKI: Yes.

18 MR. ULSES: Yes, that was another hydrogen

19 burn.

20 That's the best information we have, that

21 they periodically venting them as needed for all the

22 containments.

23 They are telling us that, they just told

24 us a few minutes ago that best information they have is

25 that all three containments are still intact, that the

1 explosion just simply damaged the reactor building.

2 EVA: Tony, this is Eva. Jim's email said

3 that they'd lost cooling on all three units. Is that?

4 MR. ULSES: That's correct.

5 EVA: So there is no --

6 MR. ULSES: The information, well, the

7 information that we just received from over our meeting

8 was that as of 1:00 to 3:00 a.m. local time here they

9 lost the ability to inject seawater. So that's been

10 well over 12 hours and they as of now, as best as we

11 understand what they told us, have not been able to

12 recover that.

13 And they started, you know, they were

14 beginning to express some concerns about Unit 2 because

15 we believe they were telling us that RKSE (phonetic) is

16 beginning to give them some problems on Unit 2 and

17 that they are not able to maintain level, that level is

18 beginning to drop in the RCS.

19 That's the latest we have on the status of

20 the units.

21 MR. LUBINSKI: Tony, can you repeat for me

22 when you said they lost the ability to inject seawater?

23 MR. ULSES: What they are doing as we

24 understand it is, and we are not completely clear on

25 what they are doing here.

1 But apparently they have some pools on
2 site, either one or more pools that they were pumping
3 seawater into and then they were using those as a
4 source to hook up what we believe is a fire truck,
5 which they are using to inject water into the RCS and
6 into the containment.
7 Apparently, they lost the ability to move
8 water into these pools so these pools dried up. We are
9 not exactly clear whether they have problems with their
10 pump.
11 What they said is that they lost their
12 water source. And it's not clear exactly whether that
13 they means they lost the pumping capability or whether
14 they've actually lost their source of water, however,
15 that seems unlikely given the site is located right
16 next to the sea.
17 MR. LUBINSKI: Okay. When did they lose
18 that ability? I thought I heard you say 12 hours ago.
19 Did I miss?
20 MR. ULSES: That happened as of 1:00 to
21 3:00 a.m. this morning. That's what we just learned
22 over the last hour.
23 MR. LUBINSKI: 1:00 to 3:00 a.m. local
24 time?
25 MALE PARTICIPANT: Yes.

1 MR. ULSES: Right.

2 MR. LUBINSKI: Okay. Thank you.

3 MR. ULSES: 1:00 to 3:00 local time.

4 EVA: Hey Tony, what they were pumping the
5 sea water into? Were they putting it into the vessel
6 or into the drywell?

7 MR. ULSES: They're telling us that
8 they're putting it into both.

9 EVA: Understand.

10 MR. ULSES: Yes, we have not probed yet
11 the mechanism of how they are actually tying into the
12 RCS and that's something that when we have the
13 opportunity to actually speak to what I consider a
14 reactor systems engineer, we'll intend to bring that up
15 at that time. But these folks here, this wasn't the
16 right crowd for that question.

17 We did ask them about the status of the
18 spent fuel pools and they indicated that they are
19 monitoring them and that they are all in good shape so
20 far. That was their response.

21 MALE PARTICIPANT: Good.

22 MR. ULSES: Say again?

23 EVA: How are they are cooling the pools?

24 MR. ULSES: Don't know.

25 EVA: Understand.

1 MR. ULSES: They didn't go into that
2 information.
3 MR. CASTO: It would take days to boil off
4 anyway, so I wouldn't worry about that.
5 MR. ULSES: Yes, it would be a long time.
6 So again, the information we have is that
7 as of right now, the best information they have is that
8 you know, they believe that they currently have all of
9 the field covering all three units, but they are
10 getting concerned about what they're seeing in Unit 2.
11 In other words, the level is trending down. That's
12 what they told us.
13 MR. CASTO: Now --
14 MR. ULSES: But obviously they have not
15 had injection for over 12 hours.
16 MR. CASTO: We don't --
17 MALE PARTICIPANT: Not now.
18 MR. CASTO: I'm sorry to, you know, we are
19 so hungry for information and I know you only have so
20 much, but we understood that mobile power sources were
21 brought onto the site and recharging the batteries was
22 unsuccessful or successful? We don't know which.
23 MR. ULSES: Well sorry, go ahead.
24 They were talking about, they still have
25 not restored AC to any of these units. They indicated

1 that they were having trouble with the batteries. They
2 didn't indicate which unit they were talking about, but
3 yes, that's correct, they indicated they're having
4 trouble hooking the batteries up.
5 They have what they call battery carts,
6 which are things that they roll in to use when the
7 station batteries are dry, they bring in new batteries
8 apparently to restore that capability.
9 So they, that is correct. That's what
10 we're being told. It's not clear which unit they are
11 talking about, whether it is all three or whether
12 perhaps it was one of the ones that had that an
13 explosion perhaps and there had been some damage, but
14 that's my speculation. I don't know (inaudible).
15 MR. CASTO: I understand you don't have
16 all the answers and don't have access to the people who
17 do, but, I mean, are they trying to airlift in sizable
18 AC power sources?
19 MR. ULSES: We just don't know at this
20 point. We asked them if they have been able to restore
21 AC and they told us that they have not.
22 That's the best information we have at
23 this point.
24 I'm not sure why they haven't been able to
25 do it. I don't know.

1 MR. CASTO: Yes. Well, I don't know.

2 (b)(5)

3

4

5 MR. ULSES: Our role in this is assessment

6 (b)(5)

7

8 here to gather information.

9 If they, you know, we made it clear, Jim

10 made it clear today that if NISA wants help then we're

11 standing by ready to provide it. That's it. That was

12 the gist of the discussion.

13 MR. CASTO: Yes, thank you, Tony.

14 MR. LUBINSKI: Tony, we agree. I think

15 the comment was more a question of whether or not, if

16 they had already considered that and it was off the

17 table for some reason. That's all.

18 MR. ULSES: As I understand it, you know,

19 they have ample heavy lift capability and they would

20 have the ability to lift in if they needed to and I

21 don't know any more than that.

22 MR. LUBINSKI: Okay.

23 EVA: Tony, are we, are you sure that the

24 issues are only at the Dai-ichi units? Do we have any

25 issues with any other units, the Daiini or the Onagawa

1 units?

2 MR. ULSES: They talked to us specifically

3 and said that at Daiini they have restored offsite

4 power, but they have lost the heat sink for all units

5 at Daiini, but they have restored offsite AC. We did

6 not talk about Onagawa.

7 I know we have that kind of floater report

8 out there about having seen some elevated rad levels

9 there, but that did not come up in our conversation.

10 DAVE: Tony, this is Dave (inaudible),

11 anything on any other units in Japan, or is that the

12 only ones you have heard anything about?

13 MR. ULSES: Those are the only ones we

14 have heard anything about and those are the only ones

15 that we've been discussing.

16 DAVE: Okay.

17 MR. ULSES: As it's, they, you know, as I

18 said, we're focusing on the Dai-ichi units this

19 afternoon in our conversation.

20 DAVE: Okay. It sounds like they have

21 lost Unit 2 cooling now, that it's headed down the same

22 path as 1 and 3 if they can't do something to restore

23 that.

24 MR. ULSES: Our sense is that they were

25 beginning to set that up as a possibility. That's our

1 sense.

2 DAVE: Okay. (Inaudible)

3 MR. ULSES: You know they brought that up

4 and mentioned it specifically.

5 DAVE: The other thing we had heard, Tony,

6 was possibly evacuating the people out of the embassy

7 since the weather is supposed to change tomorrow. Have

8 you heard?

9 MR. ULSES: We haven't heard anything

10 about that at all here and, you know, that hasn't been

11 mentioned at all to anybody here.

12 DAVE: Okay.

13 MR. ULSES: As far as I know.

14 DAVE: All right.

15 MR. ULSES: I think that the, you know, we

16 don't, yes, I guess the answer is we haven't heard.

17 DAVE: Okay.

18 MR. ULSES: Sorry, go ahead.

19 MR. LUBINSKI: I'm sorry.

20 You said at Onagawa they were having an

21 increase in dose rates. We had gotten that

22 information, I believe, probably about three, four

23 hours ago and I saw something come across CNN that it

24 was actually decreasing again.

25 Is that some misinformation or, when it

1 increased, it didn't sound like it was that much of an
2 increase. Do you have any information --
3 MR. ULSES: I'm reacting to the last
4 version of the Sitrep I read that you all put together,
5 it's been so long ago I don't even remember, where it
6 was mentioned that we were seeing roughly, I think, it
7 was a 2.1 mR/hour dose rate at Onagawa. That's what I
8 am reacting to. I don't have any other information
9 beyond that.
10 MR. LUBINSKI: Thank you.
11 MR. ULSES: As I understand it, the
12 Japanese authorities are attributing that to what is
13 happening down at the Fukushima unit, but I'm not in a
14 position to confirm that independently one way or the
15 other.
16 MR. LUBINSKI: Just to repeat back to you,
17 you're hearing verbal discussion that they're
18 attributing that increased dose rate at Onagawa based
19 on what is what happening at Fukushima?
20 MR. ULSES: No, I read that, I think I
21 read that in your Sitrep. We didn't discuss the
22 Onagawa unit at all today. That did not come up in
23 our conversations.
24 MR. LUBINSKI: Okay. We'll track down the
25 source of where we get that information and thanks.

1 MR. ULSES: Okay.

2 MR. CASTO: If I can ask once again, do
3 you know is the site isolated or are trucks and heavy
4 equipment able to get in or maybe --

5 MR. ULSES: Inaudible.

6 I'm sorry, hold off on a sec. I'm sorry.
7 Can you repeat your last?

8 MR. CASTO: Yes. Is the site isolated or
9 are heavy trucks able to get in?

10 MR. ULSES: I don't know whether or not
11 they are able to get heavy vehicles in. (b)(5)
12 (b)(5) and I'll look for
13 that on the site. So I'll get back to you on that one.

14 MR. CASTO: Thanks for all 20 question
15 answering. We're good at asking questions and just
16 appreciate your efforts.

17 EVA: Hey Tony?

18 MR. ULSES: No, this is good stuff. Yes,
19 ma'am.

20 EVA: Did you get the information you
21 needed on the reference levels and stuff?

22 MR. ULSES: I don't know if we've got a
23 fax here. Yes, I think I see a fax sitting over there,
24 and I also got your email as well. That's what we
25 thought.

1 We thought that the vessel, that levels
2 are, the field zone was 0 to EAF (phonetic)so that
3 would indicate that what we are hearing was that the,
4 basically that core was about half uncovered.
5 It's actually, it doesn't jive with what I
6 just told you. I think I'm beginning to forget my own
7 lines here. I need to get a little sleep. I
8 apologize.
9 EVA: You're doing great, Tony.
10 MR. ULSES: I'm, yes, actually the
11 information, that's right, the information as of 11:35
12 today for Unit 3 was that the level, the indicated
13 level was -1800 millimeters and that calculates to
14 roughly -6 feet, hence the email.
15 And, again we are assuming that that field
16 zone, we don't know. That may be off the wide range
17 relay, we're just not sure.
18 EVA: I can --
19 MR. ULSES: That's, this was from the
20 TEPCO reporting.
21 EVA: I can send you the range for the
22 wide range to let you know.
23 MR. ULSES: Well, I mean, again, this is,
24 you know this is off of some (inaudible) zero, and
25 we're just assuming that is based on field zone.

1 Again, the actual range is a wide range, that's useful
2 to have, but I don't think it is going to help us
3 address this question.
4 EVA: I understand.
5 MR. ULSES: This is from the TEPCO
6 reporting so.
7 MR. LUBINSKI: Okay.
8 MR. CASTO: We saw an estimate floating
9 around of 55 percent core damage. Did that come from
10 anyplace you know about?
11 MR. ULSES: That didn't come from any of
12 us. I don't know where that came from.
13 MR. LUBINSKI: Okay.
14 MR. ULSES: We were kind of sitting around
15 here brain storming, Jim and I, a little bit ago
16 earlier today if there would be a way to, based on
17 some of the, I don't know, if we were able to get some
18 grab (phonetic) samples somewhere and do some mass spec
19 on it to be able to back out what we could be expecting
20 to see for overall core damage.
21 But at this point I think they are beyond
22 the save the reactor mode, I think they into a long
23 term safe and stable mode here on these units.
24 I think it kind of transitioned,
25 definitely for Units 1 and 3, they're in, we need to

1 flood the vessel and the RCS mode on this one, that's I
2 think where they are clearly going.
3 And for Unit 2, again, it appeared again
4 that they were beginning to discuss that Unit 2 was
5 heading down that path, but we don't have any further
6 information on that.
7 Again, as I said, they didn't indicate
8 that the indicated level was dropping. I don't know
9 where it is right now. They didn't tell us where the
10 level was and that they were expressing concerns with
11 RKSE (phonetic) and its ability to maintain level.
12 And quite honestly, the only way RKSE
13 (phonetic) is not going to maintain level is either (a)
14 it's not functioning, or (b) you've got a loss of
15 coolant somewhere.
16 MR. LUBINSKI: Hey Tony, I think I've
17 what's maybe is an easy question.
18 MR. LUBINSKI: As you said, you know you
19 guys have been up for a while and sleep is an issue.
20 What time are you guys going to be basically out of
21 communication?
22 MR. ULSES: Well, I got to finish up
23 sending this stuff out to you guys and fax. I've got
24 to go upstairs to the shop upstairs and (b)(5)
25 (b)(5) I went to get into that tonight.

I think we need to send out a few more taskers. So we need more info. So that'll probably take me another couple of hours, so I figure we'll be out of commission here probably around 6:00 local or so.

MR. LUBINSKI: 6:00 local time?

DAVE: Tony, why don't you send us a note when you and Jim are going offline and when we get in contact with you again so we're not bothering you while you guys are trying to get some sleep.

MR. ULSES: Okay, will do. Jim is going to be with the Ambassador for a press conference at 4:00. (b)(5)

(b)(5)

Jim is going to be there, you know, representing the technical expert at the briefing the Ambassador is giving at 1600 local.

DAVE: Okay.

MR. LUBINSKI: We got that at 24 minutes from now?

MR. ULSES: Yes, sir.

MR. LUBINSKI: Thank you.

DAVE: Okay.

MR. ULSES: I'm not sure if it is going to

1 be a worldwide broadcast or if it's just a local
2 broadcast. I don't have that information.
3 Anyhow, I'm hearing that we have our
4 latest SAMPI RAD (phonetic) translated here, so I'm
5 going to fax you all these sheets and why don't you
6 guys look at this stuff and tell me if you make head
7 or tails of it. If not, give me a call back and let's
8 talk and see if I can come up with something else.
9 Again, I think you can probably estimate
10 the venting duration from looking at the spikes on the
11 rad monitors. Then again, all this stuff here, you
12 know, this stuff here is just simply microcuries per
13 hour. There is no mass spec date in here.
14 MR. LUBINSKI: As far as if we have
15 questions we don't understand, is the best way just to
16 send you back an email?
17 MR. ULSES: Yes, sir. That's the best way
18 to do it.
19 MR. LUBINSKI: Okay. And you'll fax that
20 how long from now, just to make sure if we don't get it
21 we --
22 MR. ULSES: In the next couple of minutes
23 here. We're kind of sharing the fax machine here so
24 after our NNSA colleague is done, I'll hop on and send
25 this all to you.

1 MR. CASTO: We saw in one of Jim Trapp's
2 emails consideration of evacuating U.S. personnel from
3 Tokyo. Was that, are you seriously considering that?
4 Or are you waiting for a recommend--
5 MR. ULSES: I don't believe so. Let me
6 confirm here. As I understand it, there is a question
7 about, excuse me, if there was a question about
8 evacuating personnel, I mean, there's no discussion at
9 all about evacuating U.S. personnel.
10 MR. CASTO: Fine.
11 MR. ULSES: That's correct. I guess the
12 confusion may be, apparently there is some information
13 and if I'm wrong, correct me here, that was put by the
14 French and German Embassies recommending that French
15 and German citizens leave Japan.
16 MR. LUBINSKI: The French and German at
17 least, haven't heard from French.
18 MR. CASTO: But we did hear that from
19 Germany.
20 MR. ULSES: Okay.
21 MALE PARTICIPANT: Inaudible.
22 (b)(5)
23
24
25 MR. ULSES: I mean, he's upstairs with the

1 Ambassador right now. I can't tell you what he is
2 talking about. But if he sending email live, I'm not
3 privy to that.
4 But I understand right now the Ambassador
5 has made a very strong statement that there is no need
6 for U.S. citizens to evacuate Japan.
7 MR. CASTO: Thank you.
8 DAVE: Okay.
9 MR. ULSES: That's the statement that's
10 been made.
11 MR. CASTO: Thank you. Good. Okay.
12 MR. LUBINSKI: Anything we can do for you,
13 Tony?
14 MR. ULSES: I'm sorry. I just want to
15 follow along. Actually the Ambassador also indicated
16 that U.S. citizens should follow the information from
17 Japanese Civil Defense (phonetic). I'm just passing
18 this on from one of the NRC staff.
19 Anyway, I've got to fax this stuff off to
20 you guys, and then I've got to roll upstairs too.
21 Okay?
22 MR. CASTO: Thank you.
23 MR. LUBINSKI: Thanks for the call, Tony.
24 We appreciate it. Thank you.
25 MR. ULSES: And get back to me if this

1 isn't what you need. Okay?

2 MR. LUBINSKI: Will do. We'll email you

3 if we have any questions. Thanks.

4 MR. ULSES: All right. Thanks. Bye.

5 (CONFERENCE CALL ENDED.)

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24 (CONFERENCE CALL INITIATED)

25 MR. LUBINSKI: NRC, John Lubinski.

1 MR. ULSES: Yes. Hi, John. This is Tony.
2 You guys asked me to call you back in your email.
3 MR. LUBINSKI: I didn't think we asked you
4 to call back. I think that was in a previous email. I
5 just sent --
6 Who'd you get it from?
7 MR. ULSES: Maybe it was Eva who asked me
8 to call back. Is Eva in the RFC (phonetic)?
9 MR. LUBINSKI: Yes, hold on, let me get
10 her.
11 MR. ULSES: Thanks.
12 MR. LUBINSKI: She is on her way, Tony.
13 Sorry about that.
14 MR. ULSES: Okay, thanks, John. I
15 apologize. I called the wrong place.
16 MR. LUBINSKI: Not a problem. You're
17 good.
18 EVA: Hey, Tony, what's up?
19 MR. ULSES: Hey, did you ask me to call
20 you back? I saw an email from you that said call me.
21
22 EVA: Yes, that was a little earlier, but
23 one thing we might want to confirm with you is the
24 status of level trending on Units 1, 2, and 3 for
25 Dai-ichi because we have, because when we talked to you

1 before you only indicated that level 2 had decreasing
2 levels?
3 MR. ULSES: I was, sorry, go ahead.
4 EVA: Do you any idea about Unit 1 or 3,
5 given that there is no seawater injection?
6 MR. ULSES: I know that Unit 3 as of 11:35
7 local time was indicating level at minus, again, 1800
8 millimeters, whether it is trending up or down, I don't
9 know.
10 EVA: I understand. Okay, I just wanted
11 to confirm what you told us.
12 MR. ULSES: Yes, I don't know that
13 information about Unit 1. I'm not sure where it is,
14 and Unit 2, again, I believe we actually just got some
15 reporting in just a little bit ago from TEPCO that
16 indicated that they are having problems with RKSE
17 (phonetic).
18 They actually came out and mentioned it
19 publically. I seem to recall having that conversation
20 here a minute ago which confirms what they told us in
21 the meeting across the street over at Norfolk, so.
22 And, again, they appear to be having
23 trouble with level control on Unit 2.
24 EVA: I understand, just wanted to
25 confirm. All right. I think that was the big thing we

had. Did we have anything else?

MR. LUBINSKI: No, that's it.

EVA: That was the big thing.

MR. ULSES: Okay. All right.

EVA: I'm sorry.

MR. MILLER: Chris Miller's got a question.

EVA: Chris has a question.

MR. ULSES: Okay.

MR. MILLER: Hey, Tony?

MR. ULSES: Yes, sir.

MR. MILLER: This is Chris Miller and I just got off a call with (b)(5) a whole bunch of other people, you've probably been talking to some of them.

But you know, the question came up and we had heard before that they had lost the ability to supply water to the cooling ponds or whatever they are calling them, such that they were pumping water from those ponds into, in a low pressure system into the reactor.

The question came up, is there any other support that could be provided by the military and I guess that, or by other, by the U.S.?

MR. ULSES: Well, what I, potentially,

1 from where I sit I think the answer to that question is
2 yes; however, that goes beyond the parameters of our
3 mission here to basically tell them how to, you know,
4 work this.
5 So that's kind of where we sit on this
6 right now and that's kind of a challenge for us here.
7 (b)(5)
8
9
10
11
12 We don't know for sure, but again, they
13 have not asked us for that information and Jim
14 specifically indicated to them that if there is
15 anything that they need they should tell us and we will
16 work to get it for them, in the meeting we had a couple
17 of hours ago.
18 So that's kind of where we are.
19 MR. MILLER: Okay. Because we had heard
20 and, I'm not challenging that, and you know better than
21 I do, but we had heard that they had put out a kind of
22 a broad request for assistance on their team to help
23 them solve the problem.
24 I'm not sure exactly how that request came
25 in, but so, but you're thinking that's beyond our

1 capacity or our scope, I guess.

2 MR. ULSES: Is that coming through DOD

3 channels or, I don't think I've heard that.

4 MR. MILLER: Were you, I'm talking to Tom

5 Blount now.

6 Where you working with the liaison team

7 working on some sort of a request where there was a

8 government of Japan request for U.S. assistance?

9 MR. BLOUNT: There were, there's some

10 traffic from DH, from the NOC, from the DHS NOC that

11 indicated that there had been a request for, six formal

12 requests made by the government of Japan, one of which

13 was nuclear instant response assistance. Another was

14 (b)(5) and other,

15 there were four others.

16 MR. ULSES: Where did you read this from?

17 DHS?

18 MR. BLOUNT: Yes. It came from a NOC,

19 National Operation Center briefing that was put

20 together and we were asked what was our support to

21 that and who was following up on it.

22 I would expect the Nuclear Instant

23 Response piece to be a DOE issue, but I hadn't heard

24 and we weren't aware that a formal request had come

25 through the State Department or anyone else. It was

1 just this email traffic that said, hey this request had
2 been made, so we're trying to verify it.
3 MR. ULSES: Okay. You know what? I'll
4 see if folks here can run this down a little bit too,
5 okay? See we what can get here, because I haven't
6 heard of this and we'll see where this goes, but we'll
7 work it on this end too.
8 MR. MILLER: But at this point other than
9 what we're doing on the protective measures side of it,
10 as far as we solving the problem at the reactor, you
11 think we, they're not asking for the help basically?
12 MR. ULSES: No. Again, Jim made it very
13 clear at the meeting that, you know, we are basically
14 standing by to provide assistance if you ask and that
15 was pretty much, those weren't the right words, but
16 that was the gist of the comment, so.
17 MR. MILLER: Okay.
18 MR. ULSES: And they didn't ask for any
19 specific assistance.
20 MR. MILLER: Okay. Just if it comes up,
21 you know, if there are other ways that we can help
22 them, I know that people, the other folks from the
23 other departments that were on this call, this 3
24 o'clock call that we just had, were saying, hey do you
25 know we're standing by to provide other things.

1 Including, somebody, you know, mentioned
2 Bambi Buckets on the bottom of the helicopter, you
3 know, dropping water now, and that's another way to get
4 water into those pumps so.
5 MR. ULSES: Yes, we've been talking about
6 that here too, so.
7 MR. MILLER: Okay.
8 MR. ULSES: All right. I'll, you know,
9 I'll see if we can work this on this side, but for now
10 Protection Measures Team does have what they need and
11 they are working it?
12 MR. MILLER: Yes, sir. Thank you.
13 MR. ULSES: Okay. Thanks. I appreciate
14 it.
15 MR. MILLER: Thank you, Tony. That was
16 Tony, wasn't it?
17 EVA: Yes. Bye.
18 (CONFERENCE CALL ENDED.)
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21
22
23 0%B#F2NL15365094
24 (CONFERENCE CALL INITIATED)
25 MR. BAILEY: Hello, Stu Bailey. Can I

1 help you?

2 MR. CASTO: Hi Stu. This is Greg Casto

3 at the NRC Operation Center.

4 We're looking for Dave Bowman or whoever

5 is on shift for him.

6 MR. BAILEY: Okay, you're calling from NRC

7 Operation Center?

8 MR. CASTO: That's correct.

9 MR. BAILEY: And your name was Greg what?

10 MR. CASTO: Casto, C-A-S-T-O.

11 MR. BAILEY: Right now I don't know whose

12 back there, but I'll put you through to them and let

13 you talk to whoever is on duty.

14 MR. CASTO: Thanks.

15 MR. BAILEY: Go ahead please.

16 MR. CASTO: Okay, thanks.

17 BILL : Okay, this is Bill Beal at , Daily

18 NIT Op.

19 MR. CASTO: Hey, Bill. This is Greg

20 Casto, NRC Op Center, also John Lubinski.

21 MR. BEAL: Okay.

22 MR. CASTO: We were calling just to touch

23 base and also to ask a couple of questions. We had

24 heard that DOE was interested in contacting the USS

25 Ronald Reagan and talking about some off-site dose

1 measurements and assessments that they might --

2 MR. BEAL: Yes. I actually, just a little

3 while ago, I, myself, had a conversation with someone

4 named Greg Davenport with Nuclear Reactors --

5 MR. CASTO: Yes?

6 MR. BEAL: -- asking him several

7 questions.

8 MR. CASTO: Yes. Yes, we've been talking

9 to him as well.

10 MR. BEAL: Okay.

11 MR. CASTO: Okay.

12 MR. BEAL: So the kind of stuff we were

13 asking is, you know, what kind of instruments were they

14 using, can we get the spectra that they took.

15 I don't know if you saw, but there was a

16 print-out of, you know, isotopic, presumably it was a

17 spectrum that they took and then they took reasons of

18 interest from the spectrum and got, you know, relative

19 isotopics out of that.

20 MR. CASTO: Right. That was from the

21 contamination sample that they got, I believe.

22 MR. BEAL: Right.

23 MR. CASTO: Yes, okay.

24 MR. LUBINSKI: Did we see this?

25 MR. CASTO: I thought we did.

1 MR. LUBINSKI: Yes, I don't think we saw
2 the spectrum, but we did see a list of the (inaudible).
3 MR. BEAL: Right. I hadn't seen the
4 spectrum either. I think you guys saw the same list I
5 did. So we were asking him if it was possible to get a
6 spectrum.
7 Part of the reason we were asking the
8 question is because the, well, the mean reason we were
9 asking the questions is the dose readings that they
10 seem to see on the Reagan didn't seem to jibe very well
11 with the, you know, the NISA numbers that we're seeing
12 published.
13 And I don't know if you guys agree, disagree,
14 but it seems like, I mean, I think we saw like a 9
15 milliard/hour, millirem/hour reading from the Reagan.
16 MR. CASTO: 0.6 mR/hour dose rate from the
17 decks.
18 MR. BEAL: Okay.
19 MR. CASTO: Is what we saw, or what we
20 understood.
21 MR. BEAL: 0.6?
22 MR. CASTO: 0.6.
23 MR. BEAL: So let's make sure we're
24 talking the same information here. The spectrum that
25 you're talking about, you know, basically listed

1 isotopes.

2 MR. LUBINSKI: Right.

3 MR. BEAL: That was from contamination

4 swipes.

5 MR. LUBINSKI: Right.

6 MR. BEAL: No I am talking about, you

7 know, --

8 MR. LUBINSKI: The airborne -

9 MR. BEAL: Exposure measurements that they

10 took using, you know, exposure meters.

11 MR. LUBINSKI: Right. The airborne from

12 that standpoint, that's is what we were saying is 0.6

13 mR/hour and, but they didn't have any spectrum on that.

14 That was just a gamma dose that they had a 0.6

15 mR/hour.

16 MR. CASTO: That's correct. And that was

17 from a survey.

18 MR. LUBINSKI: Right.

19 MR. BEAL: Was that the highest one you

20 remember seeing?

21 MR. LUBINSKI: That's the only survey

22 meter result we had heard from them was 0.6 mR/hour.

23 MR. BEAL: Let me see, I need to look at

24 this again and see if maybe I'm misreading something,

25 because we were, give me one sec while I log on.

1 MR. LUBINSKI: We're trying to pull out a
2 sheet we had here that had a, I think it was a series
3 of maybe three or four readings in an hour and half.
4 MR. BEAL: Okay.
5 MR. LUBINSKI: I'm going from my memory
6 here as we are digging for the sheet.
7 MR. BEAL: Right.
8 MR. LUBINSKI: Yes, limited set of
9 information from them. Sounds like maybe we had gotten
10 the same information.
11 MR. BEAL: Okay, what I see is a reading
12 of 2 millirem/hour with, on some sort of meter that has
13 a beta window on it and this is with an open beta
14 window.
15 MR. LUBINSKI: Okay. So that is open
16 beta. Okay. And then did they do a gamma only?
17 MR. BEAL: Yes, and then with a closed,
18 that was the one that 0.6, was the closed window
19 reading.
20 MR. LUBINSKI: Oh, okay.
21 MR. BEAL: Yes, I think we just had that
22 0.6 reading.
23 MR. LUBINSKI: Yes, we did.
24 MR. BEAL: Okay.
25 MR. LUBINSKI: Okay. That's interesting.

1 MR. BEAL: And there is also, I have a
2 reading that is 1 meter above the deck, I'm not sure
3 what instrument this was, but that's 0.9 millirem/hour.
4 MR. LUBINSKI: Now why what that be --
5 MR. BEAL: And then I still also see your
6 handheld gamma survey meter held above head 0.6
7 millirem/hour, so that's not the same one as the 0.6
8 with the closed window. That's another 0.6
9 millirem/hour. Actually, that's reported as milli
10 R/hour.
11 MR. LUBINSKI: Yes. We don't have any --
12 okay, on the information we have, we did not get the
13 open and closed window reading.
14 MR. BEAL: Okay.
15 MR. LUBINSKI: Which would indicate that
16 they were, should indicate that it looks like they were
17 in some kind of plume at the time they took that
18 reading.
19 MR. BEAL: Okay.
20 So that's what prompted the questions,
21 because that's awfully high.
22 MR. LUBINSKI: Well, yes. I guess that
23 one of the things that's good we're talking is you got
24 some different information, but I am going to ask
25 Randy.

1 Randy Sullivan is here on the call too
2 that maybe he can talk about some of the speculation we
3 had with why that may have a suspected reading that
4 high.
5 MR. CASTO: Yes. Where we went with this
6 is, our dose models don't go out that far, you know, if
7 we are using our reactor models, but if we were
8 assuming a 40 percent core melt and a design basis
9 leakage, you know, we get a certain set of numbers.
10 When NARAC back calculated the, I believe
11 from the dose on the Reagan back to the site, they said
12 that our numbers were something like a factor of 500
13 too low, which was distressing until we realized that
14 if you vent the containment and release 20 percent of
15 the volume in an hour that turns out to be 500 times
16 more than the design basis leakage of a percent a day.
17 MR. BEAL: Okay.
18 MR. CASTO: Now we're not talking quality
19 precision here.
20 MR. BEAL: Yes, right, right, or the
21 magnitude.
22 MR. CASTO: Yes, but, you know, since we
23 don't know nothing except, you know, that reading and
24 the distance, I'm not even sure we know the distance.
25 MR. BEAL: Right.

1 MR. CASTO: But anyway, you know, NARAC
2 is pretty sophisticated, and we thought, well heck,
3 they're venting at 90 pounds and probably knocking it
4 down to well below the design limit of 45 so let's just
5 speculate they're going from 90 to 30 or something.
6 You know, that sound, and from the monitor
7 readings, you know, the monitors around the site, they
8 kind of bump up for an hour, hour and 20 at an time.
9 MR. BEAL: Yes.
10 MR. CASTO: So I mean, you know just
11 connecting the knee bone to the leg bone, we're
12 thinking, you know, it sounds like they're venting and
13 that if NARAC told us that 0.6 mR reading is 500 times
14 our design basis, then it sounds like we are sort of
15 consistent with venting.
16 MR. BEAL: Right.
17 MR. CASTO: Well, there you have it. I
18 mean, we didn't think those numbers were out of line
19 with each other somehow.
20 MR. BEAL: Okay. That's actually really
21 useful insight.
22 MR. CASTO: Yes, well.
23 MR. BEAL: That maybe we're, everything is
24 self-consistent that we just didn't know enough.
25 MR. CASTO: Well, I mean, I'm not sure we

1 know everything either.

2 MR. BEAL: Well, at least there's, I mean,

3 there is a plausible, there is at least one plausible

4 explanation.

5 MR. CASTO: Yes.

6 MR. BEAL: So and you know, we'll continue

7 to leave the request out there and if we get a

8 response, great.

9 MR. LUBINSKI: And if you do get a

10 response, we'd appreciate it if you could give us a

11 call back here and share it with us.

12 MR. BEAL: Yes.

13 MR. LUBINSKI: And if you have any other

14 insights.

15 MR. BEAL: Absolutely.

16 MR. CASTO: Right, now we do have somebody

17 over there now and one of the pieces of information we

18 do know, and maybe you know this too, but they have

19 been venting from all three units.

20 MR. BEAL: All three?

21 MR. CASTO: All three.

22 MR. BEAL: Okay, I didn't realize that

23 they had been venting from 2.

24 MR. LUBINSKI: Unit 2 is in trouble too.

25 MR. CASTO: Yes.

1 MR. BEAL: Okay.

2 MR. CASTO: But we did get confirmation
3 from Tokyo or through our person with the Japanese
4 government that all three units are undergoing venting.

5 MR. BEAL: Okay. Hey, while you're, one
6 second,

7 MR. CASTO: Sure.

8 MR. BEAL: While you're updating Unit 2
9 over there, I'm on a conversation with NRC right now
10 and they say they have confirmation from Japanese
11 government that they are venting, that they are doing
12 pressure release on Unit 2 as well as 1 and 3.

13 MALE PARTICIPANT: Wow.

14 MR. BEAL: One and three have exploded,
15 but that they are venting Unit 2 as well.

16 MR. CASTO: What else do we know?

17 MR. BEAL: Is that, that's a plant
18 decision, government decision?

19 MR. CASTO: I've been reading the TEPCO
20 website.

21 MR. BEAL: Yes.

22 MR. CASTO: And it's translated by Google.
23 You know it's very inconveniently in Japanese.

24 MR. BEAL: Yes.

25 MR. CASTO: And it translated by Google.

(b)(5)

MR. BEAL: Okay.

MR. CASTO: And I don't know if they do things like that there for liability purposes because, I don't think we'd do that. We would expect the licensee to do what they need to do and let us know.

MR. BEAL: Right. The government would come after them if they didn't do the right thing.

MR. CASTO: Yes, well, I mean, we can make suggestions and we do make suggestions, but, you know, if they said they were venting, they wouldn't come to us for permission, they would just do it, right?

MR. LUBINSKI: Right.

MR. BEAL: Right.

They'd be following procedures.

MR. LUBINSKI: They're following SAMD (phonetic).

MR. CASTO: SAMD (phonetic).

MR. LUBINSKI: And what not.

MR. BEAL: Right.

MR. LUBINSKI: You had asked that other information, I guess at this point is, you know, what we have is I'll say maybe four data points.

1 One was the information we got from the
2 Reagan. Two is, we got some information on dose rates
3 upwind from the monitors they had at the site and our
4 tools don't let us use that to come back and tell us
5 what the downwind is going to be.
6 MR. BEAL: Right.
7 MR. LUBINSKI: But that's where we saw, I
8 think, as Randy said, the venting, you could see that
9 it just went up by factor three for, you know, about an
10 hour and came back down.
11 MR. BEAL: Okay.
12 MR. LUBINSKI: The information we just
13 gave you about the fact that they were actually venting
14 all three units, not two as we originally believed.
15 MR. BEAL: Is that all along they had
16 been, or just recently that they started venting
17 Number 2?
18 MR. LUBINSKI: Our belief was that it had
19 been at least for the last 10 to 12 hours.
20 MR. CASTO: No, longer than that. I
21 think, I want to say they started venting on the 12th?
22 MR. BEAL: Unit 2?
23 MR. LUBINSKI: Unit 2?
24 MR. CASTO: No, not Unit 2, but Unit 1.
25 MR. BEAL: One was the one they first

1 started venting.

2 MR. CASTO: Right, then 3, then 2, so it's

3 been, we're not sure which one at which time, but it's

4 been ongoing for some time.

5 Not to be glib about this, but I think the

6 venting started, you know, more or less consistent with

7 the hydrogen explosion.

8 MR. BEAL: Right.

9 MR. CASTO: So you kind of got a data

10 point test of when the venting started.

11 MR. BEAL: Right.

12 MR. CASTO: But I don't think venting had

13 started Unit 2.

14 MR. LUBINSKI: They said it started

15 (inaudible)

16 MR. CASTO: They started on Unit 2.

17 MR. LUBINSKI: Yes, they have been venting

18 Unit 2.

19 MALE PARTICIPANT: Someone told us they

20 have been venting Unit 2.

21 MR. CASTO: Yes, and, in fact, they had

22 been at Unit 1 for some time before they got that

23 explosion, so --

24

25 MALE PARTICIPANT: Okay.

1 MR. BEAL: Yes, that's what I had thought
2 too. MR. CASTO: Right.
3 MALE PARTICIPANT: Venting (inaudible)
4 MR. LUBINSKI: I'm looking for a date
5 here.
6 MR. CASTO: Probably the 12th.
7 MR. LUBINSKI: I guess what I meant to say
8 is to get that kind of hydrogen, you would have had to
9 have core melt to an extent.
10 MR. BEAL: Okay. Actually, as long as I
11 got you guys on the phone, this is something we had
12 sort talked about without the level of expertise.
13 But the hydrogen is, there are two sources
14 of the hydrogen, correct? I mean, there's
15 disassociation of the water and then also the cladding
16 oxidizing, correct?
17 MR. LUBINSKI: Yes.
18 MR. CASTO: But I wouldn't worry too much
19 about the disassociation of the water.
20 MR. BEAL: That's minimal?
21 MR. CASTO: Well, you know, I don't want
22 to, I mean, they also scavenge oxygen by injecting
23 hydrogen in these systems when they're operating. But,
24 I mean.
25 MR. BEAL: Okay.

1 MR. CASTO: I think it's really, you know,
2 what you're worried about is the oxidation of the clad,
3 which means the clad is burning.
4 MR. BEAL: Right. Okay. That was just
5 sort of a side thing that we had been talking about a
6 while back, since I had you on the line.
7 MR. LUBINSKI: Well, along the same lines,
8 when we are seeing cesium, generally that means there's
9 been core damage.
10 MR. BEAL: Right, right.
11 MR. LUBINSKI: I mean, I can't make heads
12 nor tails out of the ratios and the amounts because we
13 just don't have enough information.
14 MR. BEAL: Right.
15 MR. LUBINSKI: But you know, if you're
16 seeing, gosh, we're seeing calorium.
17 MR. BEAL: Now I didn't look carefully, I
18 wasn't here when that report came in, when they were
19 feeding it to our home team so I didn't look carefully
20 at the ratios there to see if, because I think that
21 everything that is on the list there is just some
22 template that they applied to the spectrum, I suspect.
23 MR. LUBINSKI: Sure.
24 MR. BEAL: And just reported what all the
25 relative concentrations were based on the area in the

1 regions of interest.

2 MR. LUBINSKI: Right.

3 MR. BEAL: So it may or may not be

4 reporting all of the relevant new clads. They may just

5 be reporting really small concentrations of things that

6 aren't really there.

7 MR. CASTO: Well, yes, okay, that's

8 possible. But I'm just slipping a gear whether

9 tellurium is volatile or not.

10 MR. LUBINSKI: It probably is. I mean,

11 given that the cesium and iodine are both volatile.

12

13 MR. BEAL: Okay. Well, I guess if we get

14 any information from NR, the reactors.

15 MR. LUBINSKI: Yes.

16 MR. BEAL: Then we'll pass it on to you

17 guys as well, if there is valuable.

18 MR. LUBINSKI: Okay, we appreciate that.

19 MALE PARTICIPANT: Do you have any other

20 dose information other than what we conveyed?

21 MR. BEAL: I don't, well, I mean given the

22 fact that I just reported a couple of data points to

23 you that seem like you didn't have, but we don't have

24 much more than that.

25 MALE PARTICIPANT: Okay.

1 MR. BEAL: So all we have is what's been
2 coming out of the NISA reports, plus the handful that,
3 you know, the small handful of Ronald Reagan data, but
4 I'm not sure why you guys didn't get those two extra
5 points.
6 MALE PARTICIPANT: Okay.
7 MR. LUBINSKI: Yes.
8 MR. CASTO: I understand that the DOE had
9 their airborne assets ready to deploy and stood down?
10 MR. BEAL: Yes. We've moved them forward
11 in case there is a request, yes.
12 MR. CASTO: But there was no request?
13 MR. BEAL: Well, that's changing as we
14 speak. And I don't know if the formal request has come
15 in yet, but there has been some back and forth about a
16 request, so that's TBD pending the request going up the
17 chain and coming back down, I think.
18 MR. CASTO: Wow.
19 MR. BEAL: But at the moment, and I don't
20 know if it's DOD or State Department that is asking for
21 it at the moment, but.
22 MR. CASTO: So I mean you don't know
23 whether it's the Japanese or?
24 MR. BEAL: Well, I guess what I'm not sure
25 of yet is, no, it's not the Japanese. This is coming,

1 I think it's mostly DOD, but I'm not sure whether DOD
2 is going through the State Department or you know,
3 doing it themselves. I need to have some conversations
4 over here before I can -
5 MR. CASTO: I got it.
6 MR. BEAL: -- tell you, before I can tell
7 you for sure, but in any case it would be us going over
8 because the, our own folks are worried about going into
9 contaminated areas, et cetera.
10 MR. LUBINSKI: Okay.
11 MR. CASTO: Wow.
12 MR. BEAL: (b)(5)
13 (b)(5)
14
15 It's sort of still developing.
16 MR. CASTO: I didn't know you guys could
17 operate off an aircraft carrier.
18 MR. BEAL: I don't know about off an
19 aircraft carrier.
20 I think they would just want us to fly
21 over it, but there's questions here as to whether there
22 is any value in that. And it gives a little
23 misunderstanding as to what the actual capability is,
24 you know?
25 MR. LUBINSKI: Yes.

1 MR. BEAL: They were kind, I think some of
2 them were expecting us to fly in active plume to, you
3 know, not quite understanding what the thing really
4 does.
5 MR. LUBINSKI: Okay.
6 MALE PARTICIPANT: Yes, well.
7 MR. CASTO: Get contaminated if you fly in
8 an active plume, I think.
9 MR. BEAL: Yes, exactly. Just as they've
10 learned.
11 MR. CASTO: Yes.
12 MALE PARTICIPANT: That's true.
13 MR. LUBINSKI: Yes.
14 MR. CASTO: I don't know. The sailors
15 with handheld meters are probably pretty effective
16 measures.
17 MR. BEAL: And that's exactly what we said
18 when they first asked, but the request is sort of
19 morphing so.
20 MR. CASTO: Okay. But it's not a Japanese
21 request, I understand.
22 MR. BEAL: As far as I know, that's
23 correct.
24 MR. LUBINSKI: All right. Thanks. We
25 appreciate it.

1 MALE PARTICIPANT: Okay, thank you.

2 MR. BEAL: Yes, same, appreciate it.

3 Thanks a lot.

4 MALE PARTICIPANT: All right, bye-bye.

5 MR. CASTO: We'll see you.

6 MR. BEAL: Bye.

7 MALE PARTICIPANT: Bye.

8 (CONFERENCE CALL ENDED.)

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16 (CONFERENCE CALL INITIATED)

17 MALE PARTICIPANT: Good morning, this is

18 the NRC Headquarters.

19 MR. CASE: Good morning, could I speak to

20 Kathryn Brock, please?

21 MALE PARTICIPANT: Yes.

22 MR. CASE: Thanks.

23 MS. BROCK: Hey, how are you doing? I'm

24 here. Who's calling?

25 MR. CASE: Oh, good morning. Hi Kathryn.

1 MS. BROCK: I'm right here.

2 MR. CASE: This is Mike Case.

3 MS. BROCK: Mike Case, how are you doing?

4 MR. CASE: Good. You had called Brian or

5 Jennifer on something?

6 MS. BROCK: Yes, one of the things the ET

7 wants us to do is to compare what we're getting on our

8 plots here to Chernobyl. And we understand that you

9 guys might have some information ready, because you're

10 getting ready for the Chernobyl anniversary.

11 MR. CASE: Oh.

12 MS. BROCK: Yes, oh is right, but can you

13 help us --

14 MR. CASE: Okay.

15 MS. BROCK: -- some information so that we

16 can at least have some sound bites and --

17 MR. CASE: Okay, you're looking for

18 general information, or --

19 MR. WATSON: Well, they're going to

20 probably want some more detailed stuff when we get,

21 collect more data here to compare with what happened

22 there.

23 MS. BROCK: Yes.

24 MR. WATSON: We had looked for them to do

25 that at this point, but if there are some talking

1 points where we can mute in the meantime, that would
2 probably --
3 MS. BROCK: Okay, so, all right, Bruce and
4 I are just talking here a little bit. So if there's,
5 why don't, could you go and see what you have?
6 MR. CASE: Okay.
7 MS. BROCK: And then we'll see how we can
8 use it, how about that?
9 MR. CASE: Okay.
10 MS. BROCK: And so, again we're looking to
11 put some plots together. The wind's supposed to shift
12 towards Tokyo by tomorrow morning.
13 MR. CASE: But are you all looking for
14 dose information, or just general information on
15 Chernobyl?
16 MS. BROCK: I think dose information.
17 MR. CASE: Okay.
18 MS. BROCK: Yes.
19 MR. CASE: So we'll try and push it more
20 towards our dose folks.
21 MR. WATSON: Yes, that's right.
22 MS. BROCK: Yes, the consequence type
23 thing, you know.
24 MR. CASE: Okay.
25 MR. WATSON: We have three reactors at

1 various stages of core melt sequence.

2 MS. BROCK: Yes, so what we're doing is

3 we're doing runs on all three, and we're going to try

4 to get NARAC to help us --

5 MR. CASE: Okay.

6 MS. BROCK: -- combine it all.

7 MR. CASE: Okay, let me poke around and

8 somebody will get back to you.

9 MS. BROCK: Fantastic.

10 MR. CASE: Are you guys on the day shift?

11 MR. WATSON: Yes.

12 MS. BROCK: Yes, we just got here.

13 MR. CASE: Okay.

14 MS. BROCK: Be here a while.

15 MR. CASE: Very good.

16 MS. BROCK: Thanks Mike.

17 MR. CASE: Okay, bye-bye.

18 MR. WATSON: Bye.

19 (CONFERENCE CALL ENDED)

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(CONFERENCE CALL INITIATED)

OPERATOR: You have reached the United States Department of Energy Operations Center. Your call is being transferred to a DOE Watch Officer.

DANIEL: Good morning, this is Daniel. How can I help you?

MS. BROCK: Hi, can we be patched into NIT? This is Kathy Brock calling from the Nuclear Regulatory Commission.

1 DANIEL: How do you spell your last name?

2 MS. BROCK: B-R-O-C-K.

3 DANIEL: All right, Kathy, give me one

4 minute.

5 MS. BROCK: Thanks.

6 DANIEL: Kathy, you're now connected to

7 the NIT.

8 MS. BROCK: Thank you very much.

9 MR. WYLUPSKI: Hi, this is Warren

10 Wylupski.

11 MS. BROCK: Hi Warren, how are you doing?

12 This is Kathy Brock from NRC. I have a couple of

13 other folks here, Bruce Watson and Prosanta Chowdhury.

14 We just wanted to make a little connection with you,

15 because we've started our shift and just wanted to make

16 the connection.

17 MR. WYLUPSKI: Okay. I think I'm going to

18 have you talk to Rick.

19 MS. BROCK: Okay.

20 MR. WYLUPSKI: Our scientist, so stand by

21 a second, okay, and let me see if I can grab him.

22 MS. BROCK: Thanks.

23 MR. WYLUPSKI: Okay.

24 (Off microphone discussion)

25 MR. MAURER: Hello, this is Rick Maurer at

1 the NIT.

2 MS. BROCK: Hi, Rick, how are you doing?

3 This is Kathy Brock from NRC.

4 MR. MAURER: Yes, hi.

5 MR. WATSON: We're the Protective Measures

6 Team.

7 MR. MAURER: Okay, yes, I just took over

8 from Bill Beal, and I'll be here for the day shift --

9 MS. BROCK: Okay.

10 MR. MAURER: -- until 07:00 p.m.

11 MS. BROCK: What was your last name again,

12 Rick?

13 MR. MAURER: Maurer, M-A-U-R-E-R.

14 MS. BROCK: Okay, great.

15 MR. MAURER: First name, Rick. So I'm the

16 NIT scientist for today.

17 MS. BROCK: Very good. Yes, we just

18 really wanted to call and make a connection because

19 we're the day shift too.

20 MR. MAURER: Okay, let me make sure I have

21 the number for you guys, what is it?

22 MS. BROCK: 301-816-5419.

23 MR. MAURER: Okay. And let's see, what

24 are you guys working on?

25 MR. WATSON: Right now we are, we've set

1 up our computer modeling to look at Unit 1 and 3.
2 We're in the process of setting it up to look at Unit
3 2, since now we have the third casualty.
4 And so that's pretty much what we're doing
5 right now. We're taking a look at some of the site
6 data that arrived overnight, and trying to confirm what
7 we know and what we've been told.
8 MR. MAURER: Okay, are you looking at the
9 plots that are coming, that have the site boundary
10 monitoring stations, is that what you're looking at?
11 MR. WATSON: Yes.
12 MR. MAURER: Okay. Can you tell on those,
13 at least the map, the ones that have the map layouts,
14 are those numbers? I mean they look like background
15 numbers, but are they reference numbers? Or are they
16 actual numbers, do you have a, do you know?
17 MR. WATSON: It looks like to me they did
18 some surveys north and south of the plant, and around
19 the plant. And they're all in microsieverts per hour.
20 MR. MAURER: Right.
21 MR. WATSON: And so the numbers, direct
22 due south of the plant and directly north of the plant
23 appear to be background numbers.
24 MR. MAURER: Yes.
25 MR. WATSON: And then some of the elevated

1 ones are to the east, they call it the Bam (phonetic)
2 or something, which I think is their breakwater.
3 MR. MAURER: Okay.
4 MR. WATSON: And that's the prevailing
5 wind direction right now, so that's where we would
6 expect to see some elevated readings. But they're not
7 really that high but I mean, they're there.
8 MR. MAURER: Right, I'm just wondering,
9 they have, I don't know if you're looking at the same
10 fax but, you know, it has MP1, MP2, the --
11 MR. WATSON: Right.
12 MR. MAURER: I guess those are all --
13 MR. WATSON: Well, we have them from
14 various hours of time.
15 MR. MAURER: Okay.
16 MR. WATSON: Yes, so it's MP1, MP2 are all
17 six monitoring stations.
18 MR. MAURER: Okay, and then you've got the
19 --
20 MR. WATSON: The reactors are on the right
21 towards the water.
22 MR. MAURER: Right, okay. Okay.
23 MR. WATSON: Okay? And so those six
24 monitoring stations, and we've seen a little bit of
25 activity, or raised alavation (phonetic) data from them

1 over the last couple of days, but they've been really
2 reasonably low. And then most of the high dose rates,
3 higher dose rate stuff has been to the east. But those
4 are their fixed monitoring stations, the MP1 through 8.
5 MR. MAURER: Right.
6 MR. WATSON: Okay?
7 MR. MAURER: Okay. Do you, okay, you say
8 going to the east?
9 MR. WATSON: Towards the water.
10 MR. MAURER: Is there any stations on that
11 side?
12 MR. WATSON: No.
13 MR. MAURER: Okay.
14 MS. BROCK: Not fixed stations.
15 MR. WATSON: Yes, and the met tower is
16 between, there's Units, I think, 5 and 6 to the north.
17 And then the other units are to the south, and there's
18 a met station a little bit west of the plant, in
19 between 5 and 6, and 1 and 2.
20 MR. MAURER: Oh, okay.
21 MS. BROCK: It looks like two kilometers
22 away.
23 MR. MAURER: Oh, okay. See, I see that.
24 And also, are you monitoring the wind changes?
25 MR. WATSON: Well --

1 MS. BROCK: Yes, we're getting some met
2 data from you guys.
3 MR. WATSON: We're getting it from NARAC.
4 MR. MAURER: Okay.
5 MR. WATSON: One of the things we've been
6 doing is, we're trying to be consistent with the met
7 data so, you know, if you will remind NARAC to keep us
8 updated every few hours on the met and the forecast.
9 MR. MAURER: Okay.
10 MR. WATSON: We are looking at a wind
11 shift, it's going to be coming, it's still, right now,
12 from the southeast going to the northeast, yes, it's
13 coming from the southwest going to the northeast. But
14 sometime, probably tomorrow afternoon we're expecting a
15 wind shift with this front going through, that the wind
16 --
17 MS. BROCK: I think it's tomorrow morning.
18 MR. WATSON: Tomorrow, yes, it will be
19 turning from blowing offshore to coming from the north,
20 northeast and heading south.
21 MR. MAURER: Yes, yes.
22 MR. WATSON: And so we're, our management
23 and of course we're concerned about, so that having the
24 luck of the Irish here with the plume blowing off into
25 the ocean, depending what happens with these other

1 three reactors, you know, what kind of consequences we
2 have from, not only the potential airborne but some
3 deposition from any releases over that time period,
4 since it's now over land.
5 So it's really critical that they keep us
6 up to date on the weather and the forecast. So if you
7 can continue to communicate that to NARAC, we would
8 appreciate it.
9 MR. MAURER: Okay. How are you, how are
10 they sending you the weather data?
11 MR. WATSON: They normally send it, either
12 an email and a fax.
13 MR. MAURER: Okay. Email and fax, all
14 right.
15 MR. WATSON: Yes.
16 MALE PARTICIPANT: Are the emails going to
17 PMT02?
18 MR. WATSON: They should be going to
19 PMT02.
20 MR. MAURER: Okay.
21 MR. WATSON: Any questions?
22 MR. MAURER: Are you getting the NOAA
23 weather models?
24 MR. WATSON: Yes, we also get them --
25 MR. MAURER: The high split model?

1 MR. WATSON: Yes, yes.

2 MR. MAURER: Okay.

3 MR. WATSON: And we also get the IAEA,

4 we've previously got them from Beijing, China, from

5 Melbourne, Australia, and from the Russians.

6 MR. MAURER: Oh, okay.

7 MR. WATSON: (b)(5)

8 (b)(5)

9

10 MR. MAURER: Oh, okay. I understand.

11 MR. WATSON: But, we don't know where that

12 came from.

13 MS. BROCK: Very good.

14 MR. MAURER: Okay.

15 MR. WATSON: Okay?

16 MR. MAURER: All right, all right.

17 Appreciate the update, and we'll let you know if

18 anything comes up.

19 MR. WATSON: All right, well feel free to

20 call if you have any questions.

21 MR. MAURER: Okay, thank you.

22 MR. WATSON: All right?

23 MS. BROCK: Thank you. Bye.

24 MR. MAURER: Bye.

25 (CONFERENCE CALL ENDED)

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16 (CONFERENCE CALL INITIATED)
17 MR. WATSON: Hi, this is the NRC
18 Headquarters Emergency Operations Center. This is the
19 Protective Measures Team. This is Bruce Watson
20 speaking.
21 MR. MAURER: Yes, this is Rick Maurer over
22 at the DOE NIT.
23 MR. WATSON: Yes, Rick, how are you doing?
24 MR. MAURER: Okay. I think I talked to
25 you a little while ago.

1 MR. WATSON: Yes.

2 MR. MAURER: Okay. We're going to have a
3 conference call at 11 o'clock Eastern time with the
4 Consequence Management Home Team and the NARAC Group,
5 they want to see if you guys could join in on it.

6 MR. WATSON: Okay.

7 MR. MAURER: Do you have access to the
8 bridge line?

9 MR. WATSON: Just go ahead and repeat the
10 number.

11 MR. MAURER: Okay. It's 877.

12 MR. WATSON: Okay.

13 MR. MAURER: 336-1274, and the access code
14 is (b)(6) followed by a pound sign.

15 MR. WATSON: Okay, let me repeat it back
16 to you. That would be 877-336-1274, and the access
17 code is (b)(6)

18 MR. MAURER: That's correct. And it was
19 877, is that what you got at the beginning?

20 MR. WATSON: Yes, 877.

21 MR. MAURER: Okay. Yes, what we're going
22 to do, we're going to start having regular conference
23 calls probably every couple of hours, but the first one
24 will be at 11:00 --

25 MR. WATSON: Okay.

1 MR. MAURER: -- Eastern time, and we're
2 going to talk about what should the NARAC Team be
3 modeling.
4 MR. WATSON: Okay.
5 MR. MAURER: And how they're doing 100
6 percent core damage, and we just want to have some more
7 discussions on that one. They're going to start
8 producing plots about every six hours.
9 MR. WATSON: And they're, okay, and are
10 they doing this just for Unit 1, or Unit 2 or Unit 3?
11 MR. MAURER: All three.
12 MR. WATSON: All three, okay.
13 MR. MAURER: One, two and three.
14 MR. WATSON: Okay, 100 percent?
15 MR. MAURER: Right.
16 MALE PARTICIPANT: 100 percent what?
17 MR. WATSON: Core damage.
18 MALE PARTICIPANT: Okay. That's a good
19 start. We can back off as we get actual data. It's a
20 --
21 MR. MAURER: Okay.
22 MALE PARTICIPANT: You know, we can model
23 at 100 percent core damage, but it's really the release
24 rate that we set up that's going to determine the
25 impact. The leak rate, you know we've been using

1 variable low level release rates, that's going to
2 really determine how far out it goes.
3 MR. MAURER: Right, right. Okay, so
4 let's, if you can call in at 11:00 and, what was your
5 name again?
6 MR. WATSON: This is Bruce Watson.
7 MR. MAURER: Okay, if for some reason you
8 have trouble connecting, just call back here to NIT Ops
9 and we'll --
10 MR. WATSON: Okay.
11 MR. MAURER: We'll help where we can, but
12 11 o'clock Eastern time.
13 MR. WATSON: Okay, thank you Rick.
14 MR. MAURER: All right, sounds good. All
15 right, thank you.
16 MR. WATSON: Yes. Thanks.
17 (CONFERENCE CALL ENDED)
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(CONFERENCE CALL INITIATED)

MR. WATSON: Hello, this is the NRC Emergency Operations Center, Protective Measures Team.

MR. SCOTT: Hi, this is Mike Scott in Research, trying to reach Kathryn Brock.

MR. WATSON: She's in a briefing with Marty Virgilio, the ET.

MR. SCOTT: Can you ask her, please, when she is done with that, to call me regarding her request for Chernobyl dose information?

1 MR. WATSON: Right, and your name again?

2 MR. SCOTT: Mike Scott.

3 MR. WATSON: Okay.

4 MR. SCOTT: Actually, let me give you

5 another name, Doris Lewis.

6 MR. WATSON: Yes, I know Doris.

7 MR. SCOTT: And Doris' phone number is --

8 MS. LEWIS: 301-251-7559.

9 MR. WATSON: 251 --

10 MS. LEWIS: 7559.

11 MR. WATSON: Okay. What we were asked to

12 do is, in a nutshell, was compare the releases from the

13 current situation with the Japanese units to

14 Chernobyl's doses that occurred from that accident.

15 And so that's, we're interested in you

16 guys collecting the information, so that when we do

17 develop the information here, we can provide it to you

18 and someone can do a comparison.

19 MR. SCOTT: Sir, are you looking for us to

20 provide you something in writing at this point?

21 MR. WATSON: Not at this point, but

22 collect the data so that when we do have, when we do

23 collect the data from the actual event here, we'll make

24 it available so the comparison can be made by you guys,

25 and hopefully we'll still be combating the issues here.

1 MR. SCOTT: Okay, so you're looking, the
2 report back you want from us is, that we have obtained
3 some information or do you want any report back at all,
4 how do you want to go with --
5 MR. WATSON: At this point, I would say,
6 task 1 is collect it. This looks like it's going to go
7 on for quite a while. As you compile it, let us know
8 what you have available and we'll ask you if we want
9 it.
10 MR. SCOTT: Okay, all right.
11 MR. SCOTT: Okay? I mean, we got three
12 units we're trying to monitor and evaluate here at the
13 same time, so.
14 MR. SCOTT: Yes, with a very limited
15 amount of information.
16 MR. WATSON: Yes.
17 MR. SCOTT: Yes. Okay, well we'll get
18 back to you then. I guess I don't need a call back
19 from Kathryn if that's the matter she was looking for.
20 MR. WATSON: No, I'll pass Doris, I'll
21 pass her name on, and this is Bruce Watson. We're, you
22 know, working our way through what we can.
23 MR. SCOTT: Okay, all right. We'll get
24 back to you.
25 MR. WATSON: Thank you.

1 MR. SCOTT: Bye-bye.

2 (CONFERENCE CALL ENDED)

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15 (CONFERENCE CALL INITIATED)

16 MR. WATSON: Hi, this is the NRC

17 Operations Center, this is the Protective Measures

18 Team.

19 MR. YOUNG: Hi, this is Dave Young over at

20 DOE at NIT Ops.

21 MR. WATSON: Who is this?

22 MR. YOUNG: Dave Young.

23 MR. WATSON: Dave Young.

24 MR. YOUNG: Hey, we wanted to get someone

25 on a conference call with NARAC and DOE Naval Reactors,

1 is that where --

2 MR. WATSON: Yes, Rick, I think his name

3 is Maurer just called us at 11 o'clock, we planned to

4 have the call.

5 MR. YOUNG: At 10 o'clock?

6 MR. WATSON: 11 o'clock.

7 MR. YOUNG: Well, we're doing a separate

8 conference call in about seven minutes, with NARAC and

9 with DOE Naval Reactors. We would like to have you

10 guys on there.

11 MR. WATSON: Okay, can you give us a call-

12 in number?

13 MR. YOUNG: The call-in number is 202-245-

14 2099.

15 MR. WATSON: Please slow down and repeat.

16 MR. YOUNG: 202.

17 MR. WATSON: Okay.

18 MR. YOUNG: 245-2099, pin number (b)(5)

19 MR. WATSON: All right. This will be a

20 conference call with DOE Operations?

21 MR. YOUNG: Yes.

22 MR. WATSON: Are you part of the NIT?

23 MR. YOUNG: Yes, I am.

24 MR. WATSON: Okay. And with Naval

25 Reactors?

1 MR. YOUNG: Yes.

2 MR. WATSON: And the number to call in at

3 10:00 a.m., which is in a few minutes, will be area

4 code 202, 245-2099, and the pin number (b)(5) I

5 assume pound at the end?

6 MR. YOUNG: No pound required.

7 MR. WATSON: Okay.

8 MR. YOUNG: And if it doesn't patch you

9 through right away, press pound. I don't believe pound

10 is required.

11 MR. WATSON: Okay. All right, we'll just,

12 we're on a call now with some international folks, so

13 hopefully we'll be calling in on time.

14 MR. YOUNG: All right, thank you very

15 much.

16 MR. WATSON: Okay. And your name again

17 was Dave Young, right?

18 MR. YOUNG: Yes.

19 MR. WATSON: All right, thank you.

20 MR. YOUNG: All right. Thank you, bye.

21 (CONFERENCE CALL ENDED)

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(CONFERENCE CALL INITIATED)

OPERATOR: Welcome to the TeleVantage Conference Manager. Please enter your conference ID, followed by the pound sign. There are currently three people in the conference. Please hold while we connect you. Please say your name.

MR. WATSON: NRC, this is Bruce Watson.

OPERATOR: Thank you.

MALE PARTICIPANT: Hello.

1 MR. YOUNG: Well, we'll put you guys on
2 mute until they hop on.
3 MR. MCMICHAEL: Will do the same, thank
4 you.
5 MR. WATSON: Hello, this is Bruce Watson,
6 NRC.
7 MR. MCMICHAEL: Hello Bruce, Lukas
8 McMichael, Naval Reactors, Jerry Lee Smith (inaudible).
9 MR. YOUNG: Okay, we have a number of
10 conference calls going on here, so I'm going to try and
11 just speak into the phone here. We had some
12 international calls, and --
13 MR. MCMICHAEL: We're still waiting on
14 NARAC, so --
15 MR. YOUNG: -- we have an executive
16 briefing going on too, so.
17 MR. NAASTROM: Okay, John Naastrom, NARAC,
18 I'm here.
19 MR. MCMICHAEL: Okay.
20 MALE PARTICIPANT: John.
21 MR. YOUNG: Thank you. All right, so we
22 got everyone on the call. So, Lukas, Dave Bowman
23 talked to you a little bit earlier, and there was a, we
24 have a discussion on what exactly do we want to model
25 for the effective power plant.

1 MR. MCMICHAEL: Correct.

2 MR. YOUNG: You know, so how much core
3 damage do we want, and what the release rate is. So we
4 have NRC on the line, just so, kind of have another
5 agency to kind of buy off on what we're thinking, so.
6 What exactly do you want, Lukas?

7 MR. MCMICHAEL: Okay, what we're, the
8 overall goal I think, is roughly in line with what
9 you've already received a tasking for, but ultimately
10 it's all three reactors having issues, and getting
11 contour lines in rem-per-hour at various distances
12 from, essentially now to 24 hours into the future.

13 I think at the end of the day, we're
14 looking at, you know, trying to understand gamma dose
15 rates and thyroid dose rates at distances, for the
16 foreseeable future, for the next 24 hours. And so
17 really the discussion is, what parameters do we use to
18 start it, and what do the reporting products look like,
19 that can meet both of our needs.

20 (Crosstalk)

21 MR. WATSON: I can tell you what we're
22 going to be doing here. This is Bruce Watson with the
23 NRC. We're basically modeling Units 1, 2 and 3 for a
24 TMI-type core melt situation, which would be 40 percent
25 of the core, and because we have variable reports on

1 core uncovery, water back-in, et cetera, et cetera.

2 Right now we're going to model them with

3 the design leak rate for the containment basically

4 being intact, which is about a half a percent per day

5 leakage. And then if we get any data that would

6 substantiate any different release rate, then we'll

7 look at that data.

8 So that's preliminary what we're doing.

9 We're doing it in a run, we're modeling each individual

10 reactor and then we'll have to do some kind summations

11 if we have all three of them go at one time.

12 MALE PARTICIPANT: Okay.

13 MR. WATSON: Okay? We suspect that we do

14 have some core damage in, a variable degree in each one

15 of the units, and --

16 MALE PARTICIPANT: Okay.

17 MR. WATSON: -- we just don't know what it

18 is right now. And as we try and get more data out of

19 them we'll be, you know, we'll be adjusting things.

20 Our intent is to do the three models, and then send

21 them to you with the source term, is that correct?

22 MR. BRANDON: Yes, this is Lou Brandon,

23 who are we speaking with here?

24 MR. MCMICHAEL: This is Lukas McMichael

25 and Jerry Lee Smith at Naval Reactors.

1 MR. NAASTROM: And John Naastrom from
2 NARAC, hi Lou.
3 MR. BRANDON: Hi John.
4 MR. YOUNG: Dave Young and Rick Maurer
5 from DOE NIT Ops.
6 MR. BRANDON: Okay, good. So that helps.
7 What we're doing here is we're basically controlling
8 the impact with our leak rate. And the designed, leak
9 rate is very low, so we can send you a RASCAL run for
10 Units 1, 2 and 3, but it's got quite a tin control on
11 it.
12 So if you're trying to increase the impact
13 and do a projection that shows a little bit more out
14 there, 100 percent versus 40 percent core melt is not
15 going to do much. It's how much --
16 MR. WATSON: It's really the release rate.
17 MR. BRANDON: Yes, so, we need to be --
18 MR. NAASTROM:: What kind of release
19 period, What kind of a, this is John, what kind of a
20 release period do you think it'll end up being, in your
21 analysis when it comes out? How long a release time?
22 MR. BRANDON: Right now, we're doing a
23 core uncovered scenario, so basically from the 13th at
24 1430 Japan time, when the core was first uncovered,
25 it's a constant release at a low rate.

1 MR. MCMICHAEL: I have a question. The
2 NRC, Bruce, you've mentioned the model that you're
3 generating. Now, are you, you're working on source
4 term or are you working on your own, I mean, how do you
5 link in with NARAC on this particular, with your
6 models?
7 MR. BRANDON: I'll answer that question.
8 This is Lou. We're running the RASCAL model, and so we
9 get the dose projections and the impact plots, but in
10 the process we generate a source term of all the
11 activities based on how long the core's been uncovered.
12 So then we email that to NARAC and they
13 use either all of it, or they use parts of it based on
14 those radionuclides that are going to give you the --
15 MR. MCMICHAEL: Yes.
16 MR. BRANDON: -- the big bang for your --
17 MR. WATSON: What we did on Friday or
18 Saturday, it was identified that the NARAC model was
19 having some issues and slowing down if they included
20 all the suite of nuclides, so we selected the key ones
21 that would be the dose contributors and deposition
22 contributors that would be of real interest to us, so
23 that they could run a little quicker, their modeling.
24 But, so we generate a source term and we
25 assume certain release rates, which I think we've

1 already described as, right now we're using designed,
2 and if we do get information on anything more specific,
3 we'll plug it into the model or if we get field data --
4 MR. BRANDON: We do have some field data,
5 so we can --
6 MR. WATSON: We can back --
7 MR. BRANDON: We can scale our model --
8 MR. WATSON: Back in to what we think the
9 release rate is.
10 MR. BRANDON: -- take the nest.
11 MR. MCMICHAEL: And has that scaling been
12 affective so far? Have you --
13 (Crosstalk)
14 MR. BRANDON: I'm just getting back into
15 the --
16 MR. WATSON: I would say it's very limited
17 because the data is not what we would call time-
18 sensitive, and also we don't know the exact location
19 because everything's blowing out over the water right
20 now.
21 MR. NAASTROM: Their monitor stations are
22 to the west --
23 (Crosstalk)
24 MR. WATSON: -- six monitoring stations --
25 MR. NAASTROM: Now we did do, we did scale

1 the emission rate based on some limited data but that
2 was for a different scenario, and now we're talking
3 about, you know, 40 percent core melt and more
4 reactors, so.
5 MR. WATSON: Yes, that's what I said, we
6 decided that we have all those what if projections we
7 had made Friday and Saturday. We can always go back
8 and use them as a reference, but we're trying to focus
9 on what's really happening now.
10 And then our real concern is that some
11 time today or tonight, the winds are going to shift as
12 this front comes through, instead of shifting from,
13 being from the southwest and going to the northeast,
14 the winds are supposed to switch around to come from
15 the north and even possibly from the northeast, which
16 would then push this potential release path over land
17 areas towards Tokyo.
18 And so that's one of our main concerns, is
19 keeping current met data and trying to get good release
20 data, so that we can assess that potential for the
21 population doses and the ground deposition.
22 MR. MCMICHAEL: When do you have release
23 starting? What's your start time on the releases?
24 MR. BRANDON: The start time, right now,
25 is the 13th at 1425.

1 MR. MCMICHAEL: 1425. So you're starting
2 with Reactor 1 or Unit 1, I should say at each time.
3 MR. BRANDON: When it first became
4 uncovered, yes, that's what we're using for the first
5 unit release time, and we can change that for the other
6 reactors but we have to identify what that time --
7 MR. WATSON: Yes, we're going back and
8 researching that a little bit.
9 MR. MCMICHAEL: Okay.
10 MR. MAURER: It sounds like you're going
11 to have different release times for the different units
12 then.
13 MR. YOUNG: They may be different because
14 they're all different situations.
15 MR. MAURER: What kind of a release
16 duration do you anticipate?
17 MR. BRANDON: Okay, there are some options
18 here for different ways to model this. We can put in a
19 generic reactor, increase the amount of fuel rods,
20 increase the power rating and try and simulate one
21 reactor as, try and make one to represent the three. I
22 don't know if that's the best approach or not.
23 MR. YOUNG: I don't, we don't really like
24 that one because then we don't know what's going on at
25 each one.

1 MR. BRANDON: All right. So we can
2 continue to characterize each of the units, and as we
3 do that, send those results to NARAC. Is that the best
4 plan, John?
5 MR. NAASTROM: Yes, I think it's
6 questionable.
7 MR. MAURER: Anything you guys, given the
8 high uncertainty in all this stuff, anything you can do
9 to simplify it, you know, do what you think is right
10 but --
11 MALE PARTICIPANT: Yes --
12 MR. MAURER: -- I think with one generic,
13 you know, representative release rate, given all the
14 uncertainties, breach, you know --
15 MALE PARTICIPANT: Right.
16 MR. MAURER: -- it would work for all the
17 units, that would make our life a lot easier.
18 MR. MCMICHAEL: That would simplify your
19 life at that end, yes.
20 MALE PARTICIPANT: Yes.
21 MR. WATSON: If we have a release
22 duration, we'll make sure we pass that on to you.
23 MALE PARTICIPANT: Yes.
24 MR. WATSON: We're hoping to --
25 MR. MAURER: You have any kind of gut

1 feeling, I think you were using 12 hours originally --

2 MR. WATSON: Yes, originally --

3 MR. MAURER: -- later.

4 MR. WATSON: -- hoping that they can do

5 some more controlled releases with the, like they did

6 with the venting, but we don't know that they have that

7 opportunity or ability at this time.

8 MR. MAURER: Right.

9 MR. MCMICHAEL: What would be helpful for

10 us, what we're looking for, again this is Lukas at

11 Naval Reactors, is we're looking for a very, very

12 simplified approach. We recognize that there's a huge

13 amount of uncertainty and a lot of variables.

14 MR. WATSON: Right.

15 MR. MCMICHAEL: And we have an overall

16 philosophy of, we kind of just fudge all that up by

17 rounding up, you know, order of magnitude --

18 MR. WATSON: Yes, we like radcon math too.

19 MR. MCMICHAEL: Exactly. And so, what

20 we're describing here, you know, one unit versus three

21 units, whatever is easy, whatever is quick. We need it

22 soon.

23 MR. WATSON: Okay. Yes, we're trying to

24 get some people in here who can do some simplified

25 additions of the plume and give us one picture.

1 MR. MCMICHAEL: Okay.

2 MR. WATSON: So that's what we're shooting

3 for.

4 MR. MCMICHAEL: Maybe a good way to deal

5 with this is, NARAC could you type up the short list of

6 approximates on what you're assuming for a source term,

7 release, and time frame, just the basic parameters, and

8 then what the output would look like?

9 It's probably easier to have the bullet

10 points of, hey these are the assumptions and then we

11 just all agree on them, even if we need to get back on

12 a conference call and just run through the list of --

13 MALE PARTICIPANT: Yes.

14 MR. MCMICHAEL: -- and this is to make

15 what rating, this is to shutdown time, one reactor

16 versus three reactors.

17 MALE PARTICIPANT: That's a good idea.

18 MR. MCMICHAEL: And, you know, melt --

19 MR. NAASTROM: Okay so, this is John in

20 NARAC, what I'm assuming we'd do is, after we get the

21 information from the NRC, we'll put together what our

22 source term assumptions will be and review them with

23 you, is that what you're saying?

24 MR. MCMICHAEL: Yes, if you're relying on

25 the NRC for the source term part, but you still have,

1 well I guess, the shutdown time, et cetera. NRC, what,
2 how far along are you on generating this revised source
3 term? It sounds like you're trying to get a much more
4 accurate picture, which is understandable, but maybe
5 not necessarily what we need.
6 MR. BRANDON: Yes, we're at the point
7 where we could send a new result for Units 1, 2 and 3
8 within the next hour, but it's not going to change much
9 by going from 40 percent fuel melt to 100 percent fuel
10 melt.
11 MR. WATSON: Because we are assuming the
12 containment's intact, so.
13 MR. MCMICHAEL: And that's fine, I'm not,
14 40 versus 100, if the leak rate is controlling then
15 fine, we'll make the assumption --
16 MR. WATSON: Yes.
17 MR. MCMICHAEL: -- that we'll just control
18 it by leak rate --
19 MR. WATSON: Right.
20 MR. MCMICHAEL: -- and live with that.
21 MALE PARTICIPANT: Now --
22 MR. MCMICHAEL: But shutdown time, you
23 know, what you're assuming, how you're assuming it,
24 let's just get it on paper, agree to it and get it
25 done.

1 MR. BRANDON: Okay, when we save a RASCAL
2 result, it has a case summary. So we can email that
3 RASCAL source, I mean the RASCAL result to you, if you
4 can, we can also give you a download link so you can
5 open up the RASCAL program and run it. It summarizes
6 everything that's in there.
7 MR. MCMICHAEL: Email is probably easier
8 because it's an IT issue.
9 MALE PARTICIPANT: Right.
10 MR. BRANDON: Email, it's a what?
11 MALE PARTICIPANT: Are we now with --
12 MALE PARTICIPANT: Better.
13 MR. MAURER: -- to what was the 100
14 percent core melt versus the 40 percent? Is that what
15 we're saying?
16 MALE PARTICIPANT: What?
17 (Crosstalk)
18 MR. BRANDON: All I'm saying is, the
19 impact is being controlled by the release rate, not the
20 amount of fuel damage right now.
21 MR. MAURER: Right, understand.
22 MR. MCMICHAEL: Yes, okay.
23 MR. WATSON: We're going to run our model
24 at 40 percent, which is kind of like what TMI was.
25 MALE PARTICIPANT: Okay.

1 MALE PARTICIPANT: Okay?

2 MR. MAURER: Let's think over the 40

3 percent, if possible.

4 MR. SMITH: This is Smith at Naval

5 Reactors, did you say that you guys did some modeling

6 based on the early data we had from the Ronald Reagan?

7 MR. WATSON: NARAC did.

8 MR. NAASTROM: Yes, okay. And that

9 actually was basically, you know, scaling the emission

10 rate just to match the measurement, so it wasn't based

11 on any assumptions about the --

12 MALE PARTICIPANT: Yes.

13 MR. NAASTROM: -- the core melt or any of

14 the, or an actual plant conditions, just scaling to

15 measurements.

16 MR. SMITH: All right, so from a release

17 rate, is there a way that we can keep that release rate

18 constant, and --

19 MALE PARTICIPANT: Yes.

20 MR. SMITH: -- scale it, based on the

21 forward end?

22 MR. WATSON: Yes, we believe that the

23 cloud or the puff that you saw at the, your readings

24 from the Reagan, were the result of the venting the

25 previous day and it was all long-lived, pretty much

1 long-lived noble gases at that point.

2 Now, I understand you've got some other

3 data that shows some particulates from some of the

4 aircraft flying through stuff, but we think that was

5 the release from the day before which was kind of like

6 a, maybe an hour or two, we don't know how long it

7 really was, so we think that's what that was, so --

8 MALE PARTICIPANT: Right.

9 MR. WATSON: -- it wasn't --

10 MR. BRANDON: Part of our assumptions are

11 that they're going to continue to have releases.

12 MR. WATSON: Right, and we were hoping

13 we'll get some times in some actual data that we could

14 say what the source term is from the venting, but we

15 don't know that we're going to get that.

16 MR. SMITH: Right. Part of what our

17 charter is to help generate protective guidelines for

18 folks that are closely approaching these reactor

19 plants. So in order to do that, we're going to have to

20 make some assumptions regarding something greater than

21 the design leak rate.

22 MALE PARTICIPANT: Yes, I think that's

23 helped --

24 MALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: Okay, that's, I think

1 that's very practical --

2 MALE PARTICIPANT: And that's what we were

3 trying to do yesterday.

4 MALE PARTICIPANT: -- and right on target,

5 yes.

6 MR. NAASTROM: So when you say something

7 greater than a design release rate, is that more than

8 what you were saying, Lou, about 40 percent core melt,

9 and designed --

10 MR. BRANDON: Well, I think 40 percent --

11 MR. NAASTROM: -- containment?

12 MR. BRANDON: -- core melt is probably

13 good to represent the situation until we know more

14 about the actual damage. And what we need to do is

15 scale the output to match what we know is out there.

16 MR. SMITH: Right, so if we use the leak

17 rate that was calculated based on, albeit, what minimal

18 data we had and consider that to be, you know, our

19 starting point.

20 MR. BRANDON: Yes, that's good. So if I

21 asked that question to John Naastrom, can you put it in

22 terms we could model, John?

23 MR. NAASTROM: I don't think so just

24 because the data was so spotty. I'll just tell you

25 what we assumed.

1 MR. WATSON: Yes, I agree with John.

2 MR. NAASTROM: We assume, when we scaled
3 the measurements we got, we were using just three
4 marker isotopes to represent everything. And we had
5 xenon-133, I think it was 500 curies per second,
6 cesium-137 of 5 curies per second, iodine-131 of 0.5
7 curies per second, and I'll have to confirm that,
8 that's just from memory.

9 MR. BRANDON: Okay, that sounds good.

10 MR. NAASTROM: Okay. So that was to
11 match, give some reasonable match to the Ronald Reagan,
12 initial Ronald Reagan data, all right.

13 MALE PARTICIPANT: Okay.

14 MR. NAASTROM: So what we were starting on
15 today until, you know, we can change this and use the
16 new information, but just so you know what I've started
17 people doing, is using that, those emission rates and,
18 you know, those are, I don't know, those are probably,
19 maybe low compared to what you'll get, I'm not sure.

20 MR. WATSON: Yes, but the other part is,
21 we don't know long they did release.

22 MR. NAASTROM: Right. But what I have
23 people starting on today is, just to get something
24 going, is to use that same release rate using current
25 weather, and predict the dose rate to give you some

1 situational awareness or --

2 MALE PARTICIPANT: Yes, yes.

3 MR. NAASTROM: -- predictions of what's

4 going to, what's happening now with current weather.

5 Even if those release rates are wrong, at least you'll

6 have some --

7 MALE PARTICIPANT: Yes, you'll have

8 something you can scale to.

9 MR. NAASTROM: -- idea of where the plume

10 is going.

11 MALE PARTICIPANT: Yes.

12 MALE PARTICIPANT: Right.

13 MR. SMITH: Right. I think that's exactly

14 what we need and we need to understand, you know, for

15 tomorrow, on in Japan time, what the predictions will

16 be for cloud locations and distances from the plants,

17 and what rad levels for the cloud are going to be 0.1

18 mile, 1 mile, 5, 10, 50 miles. So we can make an

19 assessment on --

20 MALE PARTICIPANT: Yes.

21 MR. SMITH: -- on protective actions for

22 people being sent in. And I need to get to that point

23 where I can put maps in people's hands by 6:00 a.m.

24 their time. Which means we got a little under seven

25 hours.

1 MALE PARTICIPANT: Seven hours, okay,
2 that's helpful. So we'll use John's data --
3 MALE PARTICIPANT: And who is that
4 speaking again, I just want to make sure I have
5 everybody's name.
6 MR. SMITH: This is Lee Smith in Naval
7 Reactors.
8 MR. MCMICHAEL: And backing up, we
9 probably need to compress that a little bit because
10 there's going to be some go around, back and forth,
11 about assumptions and understanding what those maps
12 mean. So the reality --
13 MALE PARTICIPANT: Six hours from now?
14 MALE PARTICIPANT: Yes.
15 MR. MCMICHAEL: -- for --
16 MR. SMITH: So we need to have, you know,
17 the product in probably four and then we'll have to
18 digest it, and there might be some go back and forth to
19 make sure we understand the information, so that we can
20 have something we agree to put in people's hands for
21 use by 6:00 a.m. their time.
22 MALE PARTICIPANT: Okay, I have a question
23 for John Naastrom.
24 MR. NAASTROM: Yes.
25 MALE PARTICIPANT: Yesterday, what I heard

1 John, was that they did a air sample and they measured
2 1.4 X 10^{-9} microcuries per milliliter for particulates
3 and that, that would potentially translate to a 1 X 10^{-}
4 ^{9} microcurie per milliliter for iodine.
5 What I heard you say with these three
6 radionuclides is that you back-calculated, and those
7 would represent the magnitude of the release to get to
8 what they were measuring on the naval reactor, is that
9 correct?
10 MR. NAASTROM: Something like that, yes.
11 I think what we actually, we actually used mainly the
12 initial dose rate and particulate air concentration
13 measurements.
14 MALE PARTICIPANT: Okay.
15 MR. NAASTROM: And then we actually used,
16 there was some isotopic analysis done, so we actually
17 did use the isotopic analysis problem from just a few
18 samples to do the mix.
19 MALE PARTICIPANT: Okay.
20 MR. NAASTROM: I don't know exactly which
21 measurement we used, but it was just a handful of
22 measurements. MALE PARTICIPANT: Yes.
23 MR. NAASTROM: And then there was some
24 measurement that gave us a mix, and that's how we came
25 up with the relative release rate for the different

1 isotopes.

2 MALE PARTICIPANT: Okay, so those release

3 rates you just gave to us are representative of what

4 they would have measured at 100 miles out, is that

5 correct?

6 MR. NAASTROM: Right, exactly. And so

7 that's the best we have to go on. So I guess, you

8 know, if we use those release rates we can, that would

9 be probably the most expeditious way to get out the

10 predictions in the time frame that you're asking.

11 I know DOE, and I talked to DOE earlier,

12 Dave Bowman, you know, they are very interested in also

13 the worst case impact, of all three reactors as you

14 guys were talking about earlier. So I guess, you know,

15 I need to determine an overall priority.

16 It's going to be faster, much faster for

17 us to get out this initial calculation using those

18 release rates that we've already used, and then I think

19 we can work on, you know, the NRC giving us more

20 detailed source terms, using the 40 percent core melt

21 case --

22 MALE PARTICIPANT: Okay.

23 MR. NAASTROM: -- and work on that as the

24 number two priority. Is that okay with everybody?

25 MR. BRANDON: We at NRC can use the 40

1 percent core melt, but we can scale the release rate to
2 match these release rates for these particular
3 radionuclides, and we can give you a much better
4 projection based on that.
5 And then we'll continue to refine this,
6 and tie in any other hard data that we can get to
7 further refine these, but we can have some runs ready
8 to pass to you in an hour or so.
9 MR. WATSON: Yes. Our goal, we'll have to
10 have something to you by noon, Eastern time. And that
11 way we have a little time to digest it and get it to
12 Naval Reactors with some reasonable explanation of what
13 it means.
14 MR. MCMICHAEL: Yes, and could we still do
15 the short type-up, the bullet points, of what the
16 major assumptions are --
17 MALE PARTICIPANT: We can do that in the
18 cover email --
19 MALE PARTICIPANT: -- and the short term -
20 -
21 MALE PARTICIPANT: -- that we did before.
22 Yes.
23 MALE PARTICIPANT: Do we have their email
24 address?
25 MALE PARTICIPANT: -- what the product

1 would look like.

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: I'm sure we do, don't

4 we?

5 MALE PARTICIPANT: We have your email

6 address, right?

7 MALE PARTICIPANT: We can email you a

8 RASCAL case summary.

9 MR. MCMICHAEL: Yes, well I'll just

10 provide it right now to make it easy.

11 MALE PARTICIPANT: Okay.

12 MR. MCMICHAEL: It's (b)(6)

13 (b)(6)

14 MALE PARTICIPANT: Okay.

15 MR. NAASTROM: So Lou, are you going to

16 put out RASCAL plume projections as well as the source

17 term, or not?

18 MR. BRANDON: Yes. We'll run RASCAL,

19 we'll send you the RASCAL result which will include the

20 plume projections, and then we'll send you the CSB

21 file, which will give you the source term.

22 MR. NAASTROM: Okay.

23 MR. MCMICHAEL: All right.

24 MR. NAASTROM: And the weather you're

25 going to use for that, is that the weather that we've

1 been sending you --

2 MR. WATSON: Yes.

3 MR. BRANDON: Yes it is.

4 MR. NAASTROM: -- Lou?

5 MR. BRANDON: It is.

6 MR. NAASTROM: Okay. Okay, so, just so

7 you know, we're updating our weather forecast model, so

8 we'll use the latest one we have. I think you guys

9 have the latest one we did at NRC.

10 MR. WATSON: Yes, like I said, it's

11 important to keep us up to date on those so that we can

12 really take care of this wind shift.

13 MALE PARTICIPANT: Okay.

14 MR. NAASTROM: Absolutely, that's in our

15 procedures. So, you know, obviously we're all

16 scrambling to do ten things at once, but that's

17 definitely, we've tried to streamline that process so

18 we can do that --

19 MR. WATSON: Okay. We have one more

20 question. We had a, I believe a Dave Young from DOE

21 Operations at the NIT, who wanted to have on the call

22 at 11 o'clock, I guess to discuss, I think the similar

23 things.

24 MR. YOUNG: Yes, that was with the CM Home

25 Team.

1 MR. MAURER: Well, yes, that's still on.

2 MR. WATSON: Okay, we'll --

3 MALE PARTICIPANT: Okay, we're going to

4 work here.

5 MR. WATSON: We're going to go to work and

6 we'll have someone call in.

7 MR. YOUNG: Okay, that'd be great.

8 MR. WATSON: Okay. All right.

9 MR. NAASTROM: So Dave, as far as the NIT

10 goes, you'll relay, kind of what's going on to Dave

11 Bowman, I assume.

12 MR. YOUNG: Right, so --

13 MR. NAASTROM: If you could just let him,

14 you know, he was very interested in kind of the worst

15 case, everything goes, you know, scenario.

16 MR. YOUNG: Right, so, we're going to drop

17 (b)(5)

18

19

20

21 MALE PARTICIPANT: Hey, I would agree,

22 that's a little bit --

23 MR. YOUNG: -- not a priority --

24 MALE PARTICIPANT: That's a little bit too

25 much.

1 MR. YOUNG: It's a little too much. It's
2 not a 100 percent core melt down and all that stuff. So
3 I think the 40 percent that you guys are talking about,
4 with probably industry gap.
5 (Crosstalk)
6 MR. NAASTROM: Even though, but I think
7 what we're talking about with the first run that we had
8 already started today, was actually to use the emission
9 rates that we had yesterday.
10 MALE PARTICIPANT: Yes.
11 MR. NAASTROM: And that just going to be
12 so much quicker. And then when that's, then we'll work
13 on the 40 percent as the number two priority at this
14 point, is what I'm getting out of all of this.
15 MALE PARTICIPANT: Okay.
16 MR. MCMICHAEL: That works for me.
17 MALE PARTICIPANT: All right, we're ready
18 to sign off then?
19 MALE PARTICIPANT: Okay.
20 MALE PARTICIPANT: Yes.
21 MALE PARTICIPANT: All right, talk to you
22 soon.
23 MALE PARTICIPANT: Thank you guys.
24 MALE PARTICIPANT: -- everyone's help.
25 MALE PARTICIPANT: All right.

1 (CONFERENCE CALL ENDED)

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8 (CONFERENCE CALL INITIATED)

9 (Off microphone discussion)

10 OPERATOR: Welcome to AT&T's

11 teleconference service. Please enter your access code.

12 To join the conference as the host, press star.

13 Otherwise, press pound. There are seven participants

14 on the call including you. You are joining your

15 conference as a participant. For a menu of available

16 commands, press star, pound.

17 FEMALE PARTICIPANT: NRC joining the line.

18 FEMALE PARTICIPANT: Welcome.

19 FEMALE PARTICIPANT: Thanks.

20 MALE PARTICIPANT: Ten o'clock conference

21 call, who's on?

22 FEMALE PARTICIPANT: NRC.

23 FEMALE PARTICIPANT: CM Home Team.

24 MALE PARTICIPANT: Thank you.

25 FEMALE PARTICIPANT: Thank you.

1 MALE PARTICIPANT: (Inaudible) Assessment
2 Scientist.
3 MALE PARTICIPANT: I know this is kind of
4 broken English.
5 (CONFERENCE CALL ENDED)
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8 (CONFERENCE CALL INITIATED)
9 MALE PARTICIPANT: Okay, it sounds like
10 we're just waiting for NARAC to call in.
11 (CONFERENCE CALL ENDED)
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9 (CONFERENCE CALL INITIATED)
10 MALE PARTICIPANT: Yes, we'll give them a
11 couple of minutes.
12 (CONFERENCE CALL ENDED)
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10 (CONFERENCE CALL INITIATED)
11 MR. NAASTROM: Hi, this is John Naastrom
12 from NARAC, I just called in.
13 MR. MAURER: Okay, thanks John. Okay,
14 this is Rick Maurer at the NIT.
15 MALE PARTICIPANT: -- five minutes away.
16 MR. MAURER: Okay. NIT Scientist and Dave
17 Young, and what we want to do is start having some
18 regular conference calls. We were thinking probably
19 every four hours and just, you can go around and have
20 everybody give an update of what they're working on.
21 MR. YOUNG: Let's make that two hours is
22 move real fast and furious right now.
23 MR. MAURER: Okay. Yes --
24 MR. YOUNG: And we'll adjust if we need
25 to.

1 MR. MAURER: Yes, let's do two hours, so
2 the next conference call will be at 1 o'clock Eastern
3 time. So John, you want to give a quick summary of
4 what you guys are working on, (inaudible) call?
5 MR. NAASTROM: Yes, I'd be happy to. This
6 is John Naastrom from NARAC. So, the last prediction
7 that was distributed was a NARAC/CM Home Team product
8 for impact on the West Coast, at different locations on
9 the West Coast, what kind of doses people might
10 experience.
11 So that went out as an email, kind of text
12 message, and the next product that was given the
13 priority is to do a more regional Japan plume
14 prediction. So this would be, kind of using current
15 weather conditions to give estimates of the dose rate,
16 how it would evolve over the next, you know, 24 hours
17 plus.
18 That's for operations, Navy and other
19 operations, situational awareness for what's happening
20 with the current wind conditions and which way the
21 plume's going over Japan.
22 So what we're assuming for that, just
23 because it was going to be quick and expeditious, is to
24 use the emission rates that we used yesterday. So that
25 would be, we're using three marker isotopes, we're

1 assuming xenon-133 at 500 curies per second, cesium-137
2 at 5 curies per second, and iodine-131 at 0.5 curies
3 per second.
4 So that's not necessarily what the current
5 conditions are, but that's a quick calculation that
6 will allow us to get something out for situational
7 awareness, and people are desperate for that.
8 The other thing that's going on is, I was
9 on earlier conference call with the NIT, and the NRC is
10 now working on source terms for a 40 percent melt case
11 at --
12 MR. MAURER: John.
13 MR. NAASTROM: -- Unit Number, sorry?
14 MR. MAURER: NRC should be online too.
15 MR. NAASTROM: Okay, if NRC is on, I'd be
16 happy to, they'll be in a much better position to give
17 you updates.
18 MR. WATSON: Yes, that's what we're doing
19 for all three units, looking at a 40 percent core melt
20 situation for all and design leak rate, release rate at
21 this time.
22 MR. MAURER: Okay, now, one quick comment
23 on that is I think you guys are aware, we prefer, it
24 would be useful to have like, just the highest
25 probability, highest dose contributing nuclides, I

1 think you had like a set of 15 that you were --

2 MR. WATSON: Right. We did that, we

3 established that on Friday.

4 MR. MAURER: Okay, very good.

5 MR. WATSON: The other question we heard,

6 was it 0.5 curies of iodine-131, or 5 curies per second

7 of?

8 MR. NAASTROM: That would be 0.5 curies

9 per second of iodine-131.

10 MR. WATSON: Okay. We thought we heard 5

11 earlier, okay, so it is 0.5, okay thank you.

12 MR. NAASTROM: Sure. And again, that may

13 or may not be, that's sort of, maybe that's more like a

14 10 percent core melt release rate, I don't know, it was

15 scaled to measurement, but it gives us something to

16 hang our hat on for now.

17 MR. MAURER: Are you saying it's, compared

18 to the half percent release per day --

19 MR. NAASTROM: I didn't really analyze it

20 for that, but we can look at that.

21 MR. MAURER: How it compares to the design

22 leak rate would be a good number to know.

23 MR. NAASTROM: Yes, well it's the design

24 leak rate and the core melt, obviously. So, yes, so as

25 far as the NRC stuff goes, are you guys going to do a

1 separate analysis for Unit 1, 2 and 3 with different
2 release times?
3 MR. WATSON: What we're going to do is
4 we're going to use the same release rate, but we're
5 doing it, we're trying to differentiate the different
6 times when the core went into its melt, melting.
7 MR. NAASTROM: Yes.
8 MR. WATSON: So the source terms may be
9 slightly different based on the time factor.
10 MR. NAASTROM: Okay, so the emission, the
11 release rate in curies per second may be the same, but
12 you'll have different release durations, is that what
13 you're saying?
14 MR. WATSON: Right. Yes. Or the release
15 rate is going to be design rate which we said was, I
16 think 0.5 percent of the containment per day.
17 MR. NAASTROM: Right.
18 TERRY: Hey John, this is Terry (phonetic)
19 at Sandia (phonetic). Share that source term with us
20 through the Home Team when you get it?
21 MR. NAASTROM: Well, I think the NRC would
22 normally send that to CMHT, and NARAC would get it at
23 the same time. But is that true, NRC, you have CMHT in
24 your distribution list there?
25 TERRY: They have in the past.

1 MR. NAASTROM: Okay, I'm just asking NRC
2 if you're thinking, if you need that email, Terry, why
3 don't you give that email for, out right now.
4 TERRY: Okay, that's CMHT@nnsa.doe.gov.
5 MR. WATSON: A little slower, please?
6 TERRY: C-M-H-T, at N-N-S-A, dot doe, dot
7 gov.
8 FEMALE PARTICIPANT: Thank you.
9 TERRY: Thank you.
10 (CONFERENCE CALL ENDED)
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10 (CONFERENCE CALL INITIATED 16:12:36)
11 RICK: Dan, question came --
12 DAN: Yes, Rick.
13 RICK: Has the team leader on all three
14 teams that are deploying, the FRMAC, the MRT
15 (phonetic), the AMS and the five two-man teams?
16 DAN: Yes, and Roger Thompson, 12th, and
17 then there'll be a DOD (inaudible) head also, and Roger
18 nominated himself for, you know, if we deploy any CMRT
19 folks.
20 DAN: Okay Rick.
21 MALE PARTICIPANT: So --
22 FEMALE PARTICIPANT: Yes?
23 MALE PARTICIPANT: I just had a --
24 MALE PARTICIPANT: You have to speak up.
25 MALE PARTICIPANT: Hey, Mr. Cole

1 (phonetic) just stopped in and asked me, he says, he
2 wanted to know, he says, how many bodies, how much
3 weight, and I had that data and gave it to him.
4 He said, you got all, you guys got the
5 names? I said, no, Courtney's (phonetic) working on
6 that. He goes, you should include passport numbers,
7 because you'll find somebody doesn't have one at the
8 last minute.
9 MALE PARTICIPANT: Okay, Courtney, are you
10 on?
11 COURTNEY: Yes, we got that, we've got a
12 nice, that list Jackie looked at, we've got it pretty
13 quick.
14 MALE PARTICIPANT: Yes, and she can go
15 into ARMS (phonetic) and get my official passport
16 number.
17 MALE PARTICIPANT: Okay.
18 MALE PARTICIPANT: Okay. I've got the Op
19 Plans that you sent in in the last day or so Courtney,
20 I got all three of those. So we're, found it. If you
21 update those, and when you update the list of names,
22 you know, and just forward that to us.
23 MALE PARTICIPANT: Okay. Yes, the AMS is
24 set (inaudible), and CMOC (phonetic) and the CMEB
25 (phonetic) are going to be easy to get names.

1 (Off microphone discussion)

2 (CONFERENCE CALL ENDED)

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11 (CONFERENCE CALL INITIATED)

12 MALE PARTICIPANT: And one thing we want

13 to make sure that, the CMOC is the whole group, and

14 then that CMEB is part of that group. So if you guys

15 want two separate entities, that means another, we

16 haven't set a contingency for that.

17 MALE PARTICIPANT: The smaller Embassy Ops

18 plan is a subset of the main one, if that was one of

19 the options to go with just the U.S. Embassy support.

20 MALE PARTICIPANT: We ought to do, too,

21 ask some additional questions (inaudible) that'd be 38

22 people that the main plan encompasses, so the U.S.

23 interest supports.

24 (CONFERENCE CALL ENDED)

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12 (CONFERENCE CALL INITIATED)
13 MR. LUBINSKI: NRC, John Lubinski, may I
14 help you?
15 TONY: Hey, John, it's Tony calling.
16 MR. LUBINSKI: Hey Tony.
17 TONY: I just wanted to pass along, I'm
18 faxing something over to the HOO's fax right now, NNSA
19 was able to pull out some local rad survey data.
20 MR. LUBINSKI: Okay.
21 TONY: And so I'm faxing it right now to
22 you all, okay? I just wanted you to know it's coming.
23 MR. LUBINSKI: Hey, great. Hey, you were
24 going to be going off the clock and hitting bed, are
25 you staying up or are you going to bed?

1 TONY: Actually, Jim and I are just going
2 to, you know, pull some rack time here in like three or
3 four hour shifts, so, we'll get some sleep.
4 MR. LUBINSKI: Yes, good. Yes, it's --
5 TONY: Yes.
6 MR. LUBINSKI: But --
7 TONY: (Inaudible), we're working that out
8 right now, yes.
9 MR. LUBINSKI: Okay.
10 TONY: All right?
11 MR. LUBINSKI: Hey, Tony hold on one
12 second.
13 GREG: Tony, well, we are confused like
14 many others are. We had the understanding that the
15 Unit 1 containment had been filled. Are we mistaken
16 with that perception?
17 TONY: I don't have any information one
18 way or the other on that. All we know, again, is that
19 we received a request from the U.S. Government, or
20 from the Japanese Government to help them get water
21 into the core.
22 And that, the best information we have is
23 that they have not had, they have not been able to do
24 seawater filling since about 1:00 or 2:00 a.m. this
25 morning, local Japanese time. I mean, that's all we've

1 got.

2 MALE PARTICIPANT: All right. But in the

3 past when they were filling, weren't they filling to

4 the dry well too? Didn't they get (inaudible) the dry

5 well?

6 TONY: Yes, we think, yes, I think they

7 were filling both, that's our understanding, but I

8 hadn't heard anything about them having successfully

9 filled the containment of Unit, you said 1, Greg?

10 GREG: Well, I did say 1, but I mean I got

11 that from the RST so, anyway, you have no such

12 information?

13 TONY: No, we hadn't heard that from

14 anybody.

15 GREG: Okay.

16 TONY: And I would expect that, I guess I

17 would have expected that the Japanese would have

18 pointed that out to us today in our meeting.

19 GREG: Yes, well then we must be

20 incorrect.

21 TONY: Okay, well, as I said, I cannot

22 confirm or deny it.

23 GREG: Yes. No, thank you. Thank you for

24 your help.

25 TONY: The fax is done so that'll be over

on the HOO's fax machine coming through right now, okay.

GREG: Thanks, Man.

MR. LUBINSKI: Thanks.

TONY: All right, thanks.

GREG: Bye.

TONY: Night. Bye.

(CONFERENCE CALL ENDED)

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(CONFERENCE CALL INITIATED)

MR. LUBINSKI: NRC, John Lubinsky, may I help you?

MR. BEAL: Yes, sir, this is Bill Beal, calling from Department of Energy, NIT Ops.

MR. LUBINSKI: Hey Bill.

MR. BEAL: Hi. I got a response from the folks, from --

MR. LUBINSKI: NAV-C (phonetic)?

MR. BEAL: From NAV School, but there wasn't much more info than that.

MR. LUBINSKI: Oh.

MR. BEAL: The only additional information we got was the times that some of the data were taken,

1 and text descriptions of the meters that were used.
2 Unfortunately, no spectrum, but I'll send you along the
3 two brief pages that I got, if you want to give me an
4 email address to send it to.
5 MR. LUBINSKI: Absolutely. Email address
6 would be, let's see, I think we used to give them, let
7 me look here real quick, because we were, we had a
8 standard, we were sending it in to the HOOs. Hold on
9 one sec.
10 MR. BEAL: Okay.
11 MR. LUBINSKI: I thought I'd written that
12 down. It is H-O-O.
13 MR. BEAL: Oh, I'm sorry, yes we do have
14 that address, the HOO/HOC?
15 MR. LUBINSKI: The HOO/HOC? Yes.
16 MR. BEAL: Okay, we'll send it to that.
17 MR. LUBINSKI: All right.
18 MR. BEAL: Yes, and it's not a whole lot,
19 but it's a little bit better than what we had.
20 MR. LUBINSKI: Okay.
21 MR. BEAL: Well, great, okay.
22 MR. LUBINSKI: Get that.
23 MR. BEAL: I'll send that along.
24 MR. LUBINSKI: Thanks a lot.
25 MR. BEAL: Sure.

1 MR. LUBINSKI: Okay.

2 MR. BEAL: Bye.

3 (CONFERENCE CALL ENDED)

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13 (CONFERENCE CALL INITIATED)

14 MALE PARTICIPANT: I've got three op plans

15 from you guys. One from AMS, one for (inaudible) and

16 one for the CMEB?

17 MALE PARTICIPANT: Right. Just in terms

18 of personnel.

19 What we're seeing is in terms of

20 personnel, the set of EB, the Embassy people are part

21 of the overall team. So if we want two separate

22 groups, and you want 25 in one place and 13 somewhere

23 else that means we have to make sure we populate that.

24 MALE PARTICIPANT: The intent was to give

25 the option of a smaller team to address a smaller port

1 issue.

2 MALE PARTICIPANT: It really doesn't

3 change much. We just have to make sure we populate

4 different people.

5 MALE PARTICIPANT: The way I understand it

6 is that we had the three sets of teams, the three --

7 MALE PARTICIPANT: But if you had two CM

8 teams would they be at all co-located as far as the

9 base of operations or would those two ground components

10 be completely geographically separate as far as base of

11 operations?

12 MALE PARTICIPANT: What we had worked on

13 yesterday is --

14 MALE PARTICIPANT: I was asking Bob. So I

15 know what we worked on. I was asking Bob what the

16 thinking was so we could rewrite the plan if needed.

17 MALE PARTICIPANT: Okay. So what you're

18 saying is that the FEMOC (phonetic) and the CMEB are

19 the same, one is just a reduced load, is that correct?

20 MALE PARTICIPANT: Yes. The FEMOC is your

21 main team and you take the CMEB out of that team to do

22 what you need to do at the Embassy.

23 MALE PARTICIPANT: Correct. You had the

24 small team option.

25 MALE PARTICIPANT: Okay. Got you. Okay,

so --

MALE PARTICIPANT: (b)(5)

(b)(5)

MALE PARTICIPANT: Yes. You just pull a sub-team out of the main team and do what you need to do.

MALE PARTICIPANT: I understand. I got you now. I understand. I misunderstood. Okay.

Well, go with what you got. I am going to find Mr. Paul (phonetic) and let him know that I made a miscalculation here and I didn't understand completely so I will get back to you. Continue to march on.

MALE PARTICIPANT: But you didn't give him wrong numbers. I mean, was it 38?

MALE PARTICIPANT: That's correct. I gave him, I over-counted some and I didn't realize I was doing that. So I'm going to --

MALE PARTICIPANT: But if --

MALE PARTICIPANT: (Inaudible.)

MALE PARTICIPANT: That should be fine.

MALE PARTICIPANT: He didn't tell us about it.

1 MALE PARTICIPANT: Yes. The bigger things
2 would be, we need to know exactly what we're doing and
3 we don't to double people up.
4 MALE PARTICIPANT: The AMS is going and
5 the FEMOC is going. Now, do you need the DMEB in
6 addition to the FEMOC? I don't think so. I didn't
7 realize that.
8 MALE PARTICIPANT: No, because they're
9 part of the 38-person FEMOC.
10 MALE PARTICIPANT: I understand that now.
11 MALE PARTICIPANT: Yes, they're part of
12 the 24 to 25. If we go separate, that means they're
13 38.
14 MALE PARTICIPANT: No, they are part of
15 28, 26, okay. Yes.
16 MALE PARTICIPANT: Correct.
17 MALE PARTICIPANT: Hey, guys, can we, this
18 is assessment. We just heard a rumor that the Japanese
19 store their spent fuel on top of a roof by the turbine
20 building. If that's true then maybe that's why we are
21 seeing cesium and it's not necessarily a fuel padding
22 damage issue.
23 MALE PARTICIPANT: This is the NRC. In
24 these boiling water reactor designs, the reactor spent
25 fuel pool is in the reactor building and the, right now

1 with Unit 1 having the roof blown off and Unit 3 with
2 the roof, I guess, compromised or off, the spent fuel
3 pool is open to air.
4 And our reactor safety team is looking at
5 that, but with the spent fuel, as long as there's no
6 leaks, we have days, if not, a week to be concerned
7 about the fuel heating up and the lack of cooling, but
8 right now it is, the spent fuel pool is open to the
9 atmosphere, but it is not a relief point or concern at
10 this time. Any questions about that?
11 MALE PARTICIPANT: All right. Thank you.
12 MALE PARTICIPANT: Okay, so let's schedule
13 the next conference call at 1300 Eastern time, so
14 that's in about an hour and a half.
15 WENDY: This is Wendy at RSO (phonetic).
16 I just wanted to also mention too during the last
17 operational period, we created a monitoring and
18 assessment plan under the direction of the NIT for Alan
19 Remick and that's also available on CMweb.
20 MALE PARTICIPANT: Okay. Thank you.
21 WENDY: Sure.
22 MALE PARTICIPANT: Hey John Naastrom, are
23 you still there?
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14 (CONFERENCE CALL INITIATED.)
15 VALERIE: Hey guys, this is Valerie.
16 MALE PARTICIPANT: Yes, Valerie.
17 VALERIE: Terry, are you on line?
18 TERRY: Yes, we're here at Sandia.
19 VALERIE: Okay. Terry Dixon (phonetic),
20 are you on line?
21 FEMALE PARTICIPANT: He's here.
22 VALERIE: Okay. And Liz are you on line?
23 FEMALE PARTICIPANT: She's right here.
24 VALERIE: All right, I'm checking out then
25 guys.

1 TERRY: All right. Sleep well.

2 VALERIE: Bye.

3 (CONFERENCE CALL ENDED.)

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15 (CONFERENCE CALL INITIATED.)

16 MALE PARTICIPANT: Okay, so that sounds

17 good, NRC. It sounds like if you can come up with one

18 kind of anything that would simplify the source term so

19 we can kind of use one and scale it or use different

20 release periods that would make everyone's life a lot

21 easier.

22 (CONFERENCE CALL ENDED.)

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JOHN: Okay, so, anything more? I can give you a little more update on the NARAC stuff. Not the first priority stuff, but the additional things that we're doing in a smaller background so it may be for the, stuff will come out a little bit later. Would you like me to do that now, Rick, or is there other stuff you want to cover first?

MR. MAURER: No, go ahead.

JOHN: Okay. So the other question, the immediate priority, as I said, is to kind of give out, get a regional, Japan region kind of forecast for

1 current conditions where the plume is going to go.

2 And then we anticipate we would then

3 update that using the 40 percent melt case source terms

4 for Unit numbers 1, 2, and 3 as appropriate. So that

5 would be the next step for a Japan region calculation,

6 and we haven't started that yet. So we'll keep working

7 with NRC.

8 The other thing that we've been working on

9 for more U.S. impact, we've been doing calculations

10 with the same three marker isotopes where we just

11 release one curie of each like over 12-hour periods and

12 then try to track that over the Pacific to see when

13 material might be detected in the U.S.

14 For example, for Hawaii or any of the U.S.

15 Territories. So that's the kind of calculation that

16 was used to put out their earlier text email message

17 about impact on the U.S. cities.

18 So the thing that I think would be helpful

19 for the CM Home Team, and Steve Homann just joined us

20 here at the NARAC CM Home Team, is, as you did before,

21 keep working on DRLs so that we can take those

22 calculations for those marker isotopes and then try to

23 scale them to do estimates of dose.

24 And I think what we've put out so far is

25 just ground shine dose estimates based on the CM Home

1 Team DRLs that Sandia provided.

2 But if we could come up with both ground
3 shine and cloud shine DRLs that we can use to scale our
4 results. So if it's set at, you know, for one curie
5 cesium-137, one curie of iodine-131, one curie of
6 xenon-133, how can we scale those results based on
7 what's looking like now the reference source term will
8 be this 40 percent melt case that NRC is working on for
9 all three of the reactor units.

10 So I think that's the thing I think we
11 need the most for the next step after we get done with
12 these initial regional Japan, you know, plume
13 predictions.

14 I think that's probably, at the high
15 level, that's everything kind of we're working on and
16 everything we're looking to get from you guys on the
17 phone. Any questions or comments or fill-in
18 information?

19 MR. MAURER: John, just to verify, talking
20 to Dave Bowman, you're using the NOAA weather forecast
21 model or --

22 JOHN: We are using for the transpacific
23 calculations, we're using the NOAA Global Model. It's
24 called the GFS. And then we are using that same NOAA
25 GFS model to initialize a higher resolution weather

1 model that we run here over the Japan region.

2 And there are very little observations

3 coming out of Japan because of the infrastructure

4 damage so meteorological observations are hard to come

5 by.

6 Although some, you know, observations from

7 the global network goes into the NOAA model, so they

8 are influenced by the weather observations and then we

9 then do a higher resolution zoned weather forecast

10 model for the Japan region on top of that.

11 So it's influenced by, you know, global

12 and regional observations, whatever is available, those

13 go into the NOAA model.

14 MR. MAURER: Okay. So okay, understand.

15 Okay, let's see, CM Home Team, what are you guys

16 working on?

17 TERRY: Well, as part of the assessment

18 goes, we're working with NARAC. Okay. I'm getting

19 some feedback here, I'm not sure why. Can you guys

20 hear me?

21 JOHN: We can hear you fine at NRC.

22 TERRY: Okay. Yes. We're working with

23 NARAC. We did some unit dose rates or unit doses based

24 on cesium deposited on the ground for various time

25 phases. So as John said we can estimate the doses in

1 time if a plume comes down at various locations.

2 We are going to start looking at the dose

3 from the air also. We got some more data. As far as I

4 know, all the data that's available that we could

5 understand and that has lat, long and time is loaded up

6 into RAMS, so right now that is about 58 data points is

7 all we have.

8 The RSL GIS folks are trying to put those

9 on a map at this time and so --

10 WENDY: Yes, Terry.

11 TERRY: Say again?

12 WENDY: This is Wendy. That map has

13 actually been uploaded to CMweb already.

14 TERRY: Okay, great. And ultimately, we

15 would like to speak with someone from Japan regarding

16 the food because it looks like the plume around this

17 time in Japan is bending back onto the main island.

18 And so besides protective action

19 decisions, there may be some food injection pathway

20 concerns, but we just have no understanding of what

21 their concerns are because we can't talk to anyone.

22 MALE PARTICIPANT: Yes, Terry, I mean I

23 don't know if anyone else knew, everyone else can weigh

24 in here, but I don't think we're really directly

25 supporting the Japanese yet, although, you know, I

1 think Alan Remick is in the Japan Embassy.

2 (b)(5)

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4 there. But I guess that's just my take on it if anyone

5 wants to say anything else, they can.

6 MR. MAURER: Yes, from headquarters we're

7 supporting the U.S. interest and personnel in Japan.

8 TERRY: So Rick, I mean you'll let us

9 know, I guess, if there is any request that comes out

10 of that, right?

11 MR. MAURER: Right.

12 MALE PARTICIPANT: Yes, right now we don't

13 (b)(5)

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17 everyone yet, but we --

18 MR. MAURER: We're getting everybody

19 ready.

20 MR. BLUMENTHAL: This is Dan Blumenthal.

21 By speaking of leaning forward, I just got a call from

22 Lieutenant Colonel of the Joint Staff and I guess he

23 talked to Bob and then this guy said that the folks at

24 Nellis have started coordinating with the ariel port

25 squadron at Nellis.

1 So the folks know what our AMS load is and
2 they have all their paperwork necessary in case we move
3 somewhere. But they started that wheeling moving.
4 What?
5 MR. MAURER: Bob's right here. Bob
6 Jarrell is working that.
7 MR. BLUMENTHAL: No, I'm just telling you
8 he did work it so then someone actually called and
9 said to start doing stuff. Is that okay, Bob?
10 MALE PARTICIPANT: The ariel port -
11 MR. MAURER: Bob just walked in.
12 MR. JARRELL: Yes, I just got an email for
13 the port (inaudible).
14 (CONFERENCE CALL ENDED.)
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(CONFERENCE CALL INITIATED.)

DANIEL: Hello, this is Daniel. How can I help you?

MALE PARTICIPANT: Yes, this is the NRC Operations Center. Can we be transferred over to the NIT?

DANIEL: Yes, one second. All right, you are all connected to the NIT.

MR. WATSON: This is Bruce Watson and Kathryn Brock and Christine Liu (phonetic).

MR. MAURER: Okay, this is Rick Maurer at

1 the NIT.

2 (CONFERENCE CALL ENDED.)

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15 MR. MAURER: Hello?

16 MR. WATSON: Yes? To whom are we speaking

17 to?

18 MR. MAURER: This is Rick Maurer at the

19 NIT.

20 MR. WATSON: Okay, Rick. How you doing?

21 This is Bruce Watson.

22 MR. MAURER: Doing good.

23 MR. WATSON: And Kathryn Brock and

24 Christine Liu at the NRC headquarters Protective

25 Measures Team.

1 We had, I guess at the 11 o'clock time
2 frame or the 10 o'clock, actually the 10 o'clock call,
3 we had agreed to send NARAC some stuff by noon. We
4 actually got it out of here around 12:30.
5 MR. MAURER: Okay.
6 MR. WATSON: We had also said we're going
7 to have a call around 2:00. We were wondering if they
8 were ready to, if they've reviewed the data and want to
9 have a chat about it.
10 We told Naval Reactors we would get some
11 information by, I think, 4:00 and so that's one thing
12 we need to follow up on, a call with NARAC. And then
13 also, this morning, the, was it TMP (phonetic) said
14 that they wanted to have periodic phone calls, but we
15 never heard the interval of the calls that they wanted
16 to have. And so we wanted to follow up.
17 MR. MAURER: Okay, yes, our next call is
18 at 3 o'clock with the CM Home Team.
19 MR. WATSON: Yes.
20 MR. MAURER: And NARAC will be on there at
21 3:00.
22 MR. WATSON: At 3:00?
23 MR. MAURER: Yes.
24 MR. WATSON: Okay.
25 MR. MAURER: Do you talk to, get in touch

1 with them before then?

2 MR. WATSON: I guess we'd like to know if

3 they have any questions beforehand.

4 MR. MAURER: Okay.

5 MR. WATSON: Yes, 3:00 is when we turn

6 over here, so, shift change, but we'll accommodate the

7 call.

8 MR. MAURER: Okay. Let me get your number

9 again. I had 5419. Is that correct?

10 MR. WATSON: Yes, 301-816-5419.

11 MR. MAURER: Okay, because I called that

12 earlier and I kept getting a busy.

13 FEMALE PARTICIPANT: We were on the phone

14 a while ago, but--

15 MR. WATSON: We were on from --

16 FEMALE PARTICIPANT: Give him this number

17 too.

18 MR. WATSON: Okay, and that's 301-816-

19 5414, right? No.

20 FEMALE PARTICIPANT: No, 4415.

21 MR. WATSON: 4415.

22 MR. MAURER: 4415. Okay.

23 FEMALE PARTICIPANT: There's two phones

24 here.

25 MR. WATSON: Two phones.

1 MR. MAURER: Okay, and you have the call-
2 in number for the 3 o'clock? The 877 number?
3 MR. WATSON: We had that somewhere.
4 FEMALE PARTICIPANT: What is it again?
5 MR. MAURER: 877-336-1274.
6 FEMALE PARTICIPANT: Okay. What is the
7 bridge number?
8 MR. MAURER: Access code is (b)(5).
9 FEMALE PARTICIPANT: Got it. Thank you.
10 MR. WATSON: Okay.
11 MR. MAURER: Okay.
12 MR. WATSON: Thanks, Rick.
13 MR. MAURER: We'll see you guys at 3:00.
14 FEMALE PARTICIPANT: All right. Bye.
15 MR. WATSON: Bye.
16 MR. MAURER: Thank you.
17 (CONFERENCE CALL ENDED.)
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16 MALE PARTICIPANT: This is Hans (phonetic)
17 out of Sandia home team. Who was just asking if there
18 is anybody there? Were you looking for us?
19 MS. HART: This is Michelle Hart at the
20 NRC Headquarters from the PMT.
21 MALE PARTICIPANT: Okay. Were you looking
22 for -- we were having a discussion and I didn't, I just
23 didn't know if you were looking for the assessment
24 group or (inaudible) anybody.
25 MR. MAURER: This is Rick Maurer, working

1 at the NIT.

2 MALE PARTICIPANT: Hey, Rick, how are you?

3 MR. MAURER: Good. We're doing a

4 conference call every 2 hours with NRC and NARAC and

5 home team and NIT.

6 MALE PARTICIPANT: Every 2-hour conference

7 call starting when, right now?

8 MR. MAURER: It started at 11:00 this

9 morning, but there is one starting at 3 o'clock Eastern

10 time.

11 MALE PARTICIPANT: Okay, so 1300 Mountain,

12 there'll be a conference call and it's on this bridge

13 line?

14 MR. MAURER: It's right now. It's

15 starting right now.

16 MALE PARTICIPANT: 3 o'clock Eastern is 1

17 o'clock here.

18 MALE PARTICIPANT: Oh, I get it. Okay.

19 So we'll listen. Going on mute.

20 MR. MAURER: Is NARAC on? All right,

21 let's wait a few more minutes.

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17 (CONFERENCE CALL INITIATED.)
18 MR. NAASTROM: Hi, this is John Naastrom
19 from NARAC.
20 MR. YOUNG: Hey John, Dave Young from the
21 NIT and we've got the NRC on as well. We can start out
22 by getting an update of the recent results you put out
23 on CNN.
24 MR. NAASTROM: Yes. In fact, I need to,
25 we just get done, we're in the middle of sharing those

1 to folks and haven't gotten them to the NRC folks yet.

2 But that was the dose rate plots that we

3 produced using the 500 curie per second xenon, 0.5

4 curies per second of cesium, and 5 curies per second of

5 iodine, so that's just kind of situational awareness

6 spots that the Navy wanted to continue so they know

7 where the plume was going over Japan.

8 MR. YOUNG: Oh, okay. Hold on.

9 MR. NAASTROM: There is a separate plot

10 for each hour so you have the dose rate plot every

11 hour.

12 MR. NAASTROM: I'm having trouble hearing

13 you. If folks aren't speaking, can we can put their

14 phones on mute?

15 MR. YOUNG: Yes, John. The question was

16 is that released at the beginning of each hour?

17 MR. NAASTROM: No, we release for 48 hours

18 at that same rate so it's the same model simulation we

19 we're just showing you the dose rate snapshot at every

20 hour for --

21 MR. YOUNG: And it just builds and adds on

22 to the next one?

23 MR. NAASTROM: Right. But, you know, the

24 wind is moving it away, right, so it continues to

25 stream out of the plant, and the plume just gets

1 carried in different directions.

2 MR. YOUNG: Okay. All right. Okay, so

3 those are out for review and a copy will go to the NRC

4 as well?

5 MR. NAASTROM: Yes. I guess, I think

6 we're, you know, I think the main users of those has

7 been the Navy folks that have ships out there and. So

8 if the NIT could just let us know when they're ready

9 who they would like, anyone else they would like it

10 shared with.

11 MR. YOUNG: Okay. They're still working

12 with the interagency group on the process of releasing

13 NARAC plots so they have not received that. Okay, so

14 what are you, the next set you're going to work on?

15 MR. NAASTROM: We have a plot and once I

16 leave this call I'll go proof it. I think we have the

17 plot of the cesium deposition over California just to

18 give awareness of, you know, what the levels might be

19 of cesium.

20 And then the CM Home Team, the Sandia

21 folks at CM Home Team have worked out the DRL. It's

22 well below the DRL for food ingestion so right now we

23 have a contour plot that just shows you what the levels

24 are over California.

25 And then I guess the next step is trying

1 to figure out how to, you know, you guys need to figure
2 out how you want to package that information and
3 distribute it.
4 MR. YOUNG: And then the next step is the
5 percent damage?
6 MR. NAASTROM: Right. Yes, the 40
7 percent. So we've been looking at that. I think one
8 of the things that, if NRC is on the line, we would
9 like to talk about is what release start times could we
10 be at, because I don't think we should be assuming.
11 MALE PARTICIPANT: Yes, we spoke, this is
12 NRC. We just spoke with Phil and our release start
13 times are when the core comes uncovered, he said
14 understood that at NARAC.
15 MR. NAASTROM: Okay.
16 MALE PARTICIPANT: Okay.
17 MR. YOUNG: Okay. And do we have the core
18 uncover times?
19 MALE PARTICIPANT: Yes, those are in the
20 runs from, with the RASCAL ones.
21 MR. NAASTROM: Okay. I see that now.
22 MALE PARTICIPANT: Okay.
23 MR. NAASTROM: Okay. Perfect. Now the
24 other thing is, I don't know if Phil asked before, but
25 is there a way you guys can quickly resend it with the

15 most important nuclides?

MALE PARTICIPANT: I think those were sent beforehand. We could resend them though.

MR. NAASTROM: Oh no. I thought maybe there was a larger list than that.

MALE PARTICIPANT: No.

MR. NAASTROM: Okay. One of the files we were looking at was a much large list than that.

MALE PARTICIPANT: Yes, this one is huge.

MR. NAASTROM: Okay. It's huge. Maybe you guys sent us a (inaudible).

MALE PARTICIPANT: We'll resend them just in case.

MR. NAASTROM: Great. Thank you very much.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Yes, I was going through pulling them out so good.

MR. YOUNG: Also, we have 0.5 release rate, 0.5 percent release rate per day?

MALE PARTICIPANT: Right, of core, so 0.5 of the 40 percent?

MR. NAASTROM: That's the question to the NRC. I think you guys used a 0.5 percent per day right?

1 MALE PARTICIPANT: That's what it says on
2 here.
3 MR. NAASTROM: He probably ran off do
4 that. Yes, we're looking at the assumptions here.
5 MALE PARTICIPANT: I read it here. I
6 can't find it.
7 MR. NAASTROM: Yes, it says 0.54 percent
8 per day.
9 MALE PARTICIPANT: Yes, right there.
10 MR. NAASTROM: 0.54 percent per day.
11 MR. YOUNG: Okay. So just to summarize
12 you'll do each of the three reactors independently, 40
13 percent core uncovered or damage at a rate of 0.5
14 percent per day.
15 MALE PARTICIPANT: Correct.
16 MR. NAASTROM: Right. Yes, so --
17 MR. YOUNG: That'll go into our next round
18 of briefings. And how long will you run that? The
19 same thing at a 24-hour period or --
20 MALE PARTICIPANT: Well they need to 48
21 it.
22 MR. YOUNG: 48 hours?
23 MALE PARTICIPANT: Yes.
24 MR. NAASTROM: I haven't looked at the NRC
25 assumptions. Is that what they do?

1 MALE PARTICIPANT: The RASCAL thing goes
2 for 48 hours.
3 MR. NAASTROM: Okay.
4 MALE PARTICIPANT: I mean their nuclides.
5 MR. NAASTROM: Okay. So yes, this is a
6 48-hour release.
7 0%BE7Q3_15365094
8 MR. NAASTROM: Okay, so now I guess I'm
9 wondering if those 40 percent ones are the same start
10 time for all three of the reactors, right. And I guess
11 in the absence of anything else that's what we need to
12 assume.
13 But I'm just wondering is there anything
14 other information that would give us a clue that, you
15 know, Reactor 1 started earlier and Reactor 2 and 3
16 went later, I guess would be the question. That's
17 probably a question for the NRC, I guess, but I think
18 they're not there, is that right?
19 MR. MAURER: They were on line.
20 MALE PARTICIPANT: We're here. I'm sorry,
21 what was the question again?
22 MALE PARTICIPANT: I understand we're
23 assuming that we'll start the releases for all three
24 units at the core uncovering time?
25 MALE PARTICIPANT: Right, and that's at

1 different times.

2 MALE PARTICIPANT: Oh, okay, and where are

3 those? Are they are in your report? They probably

4 are, right?

5 MALE PARTICIPANT: There's different times

6 in each one of them based on what we are able to derive

7 from the information we've gotten so far.

8 MALE PARTICIPANT: Yes, yes. I'm sorry.

9 Everything is right in front of us, we just haven't had

10 a chance to read it yet, so I understand.

11 MALE PARTICIPANT: We know we're not

12 perfect, but we try.

13 MALE PARTICIPANT: Yes.

14 MR. MAURER: Okay, anything from John at

15 NARAC?

16 MR. KRAUS: John, Terry Kraus. I want to

17 talk with you when we're done with this one.

18 MALE PARTICIPANT: Yes, I guess may be a

19 quick question to talk about is, and the priority for

20 this is to do the dispersion over Japan obviously.

21 And then, I guess, get ready to do the

22 transport across the Pacific after that. Am I correct

23 in that assumption, Rick?

24 MR. MAURER: I think that's the way we

25 want to go.

1 MALE PARTICIPANT: This is the NRC. We
2 want to make sure we get some updated meteorological
3 data and forecast from you guys.
4 MALE PARTICIPANT: I think we just sent
5 out an update in the last hour.
6 MALE PARTICIPANT: It may have come from
7 some personnel email like (inaudible), may have sent
8 that.
9 MALE PARTICIPANT: Okay. We'll try and
10 get someone to verify that.
11 MALE PARTICIPANT: Okay.
12 0%BEA-7L15365094
13 MR. YOUNG: Does the NRC have anything?
14 MALE PARTICIPANT: No, we're just going to
15 verify we got the updated material. The other thing
16 we're doing is we were looking at some of the survey
17 data from this morning.
18 We were looking at some of the survey data
19 we did get from the site this morning and we're trying
20 to make some assumptions about onsite ground
21 deposition, and so we're just working on that now, but
22 we don't have anything, any conclusions.
23 MR. YOUNG: Do you have any data that you
24 can share so we could all start looking at it, or is
25 that too preliminary?

1 MALE PARTICIPANT: I would probably call
2 it too cryptic and preliminary at this time.
3 MR. YOUNG: Okay.
4 MR. MAURER: Is this data from the plant
5 itself?
6 0%BEBG7L15365094
7 MR. MAURER: Are you still there?
8 MALE PARTICIPANT: I'm sorry, who are you
9 talking to?
10 MR. MAURER: Yes, this is to the NRC. You
11 said you had new ground deposition data. Is that from
12 the --
13 MALE PARTICIPANT: No. We're trying to
14 derive something from some of the microsievert readings
15 we had over the last couple of days and trying to make
16 some educated guesses on what might be ground
17 depositions on the site, so it's old stuff.
18 MR. MAURER: Okay.
19 MALE PARTICIPANT: You know, there is such
20 a thing as sea breeze and other things and we're
21 wondering why we were seeing some of the more elevated
22 readings in the past on the Western side of the plant
23 and that's the only thing we could contribute it to.
24 So it's all just speculation on our part at this point.
25 MR. MAURER: I understand.

1 MALE PARTICIPANT: Okay.

2 MR. MAURER: And CM Home Team, do you have
3 anything?

4 MALE PARTICIPANT: As far as assessment
5 goes, we're still, we're just working with NARAC to
6 develop the final or the next set of data products.
7 The more data we get the better off and we're just not
8 getting much data, but that's something that no one on
9 this line can control. So nothing new.

10 MR. MAURER: Okay. Okay, does anybody
11 else have anything they would like to add at this
12 conference call?

13 MALE PARTICIPANT: We wanted to verify
14 when the next call is.

15 MALE PARTICIPANT: 1700.

16 MR. MAURER: I'm going to go with 2 hours,
17 which will be 1700 Eastern time.

18 MR. BLUMENTHAL: Hey, Rick, this is Dan
19 Blumenthal.

20 MR. MAURER: Go ahead, Dan.

21 MR. BLUMENTHAL: I had a couple of
22 questions. One, I had emailed you guys a question
23 earlier about the ECN and I was wondering if Dean or
24 anyone had a chance to get feedback?

25 Because it was in the plan, but we needed,

1 turns out we need an extra NE-44 support person to make
2 sure it gets configured properly over there to work in
3 Japan.
4 MALE PARTICIPANT: Right.
5 DR. BLUMENTHAL: And if the decision was
6 no, we couldn't have that extra person, then Bill
7 Nicholls did have an option of leaving the EC at home
8 and just over satellite getting VPN access using
9 (inaudible), but that wouldn't be as reliable, so I was
10 wondering if there was a decision yet.
11 MR. MAURER: We'll check with Dean.
12 MR. BLUMENTHAL: Okay.
13 MR. MAURER: I don't know --
14 MR. BLUMENTHAL: So just let us know here
15 and the second thing was, actually we just had a
16 briefing here with all the deploying people and one
17 person asked a really good question is, you know, if
18 conditions worsen, you know, evacuation-related or
19 whatever, I assume, so are we taken care of under the
20 DOD or whatever other umbrella?
21 MALE PARTICIPANT: We'll check that one.
22 When you say taken care of, what do you mean?
23 MR. BLUMENTHAL: Well, if people, if
24 conditions worsen and there is another tsunami and
25 people are evacuating, people just want a warm fuzzy

1 feeling that they're not hanging out there, that's all.

2 MALE PARTICIPANT: Understand.

3 MR. MAURER: We'll find out about that.

4 DR. BLUMENTHAL: And also, do we have any,

5 we don't have anything more than we're pre-staging to

6 Yokota, right? We don't have any operational taskings

7 yet, do we?

8 MALE PARTICIPANT: I don't know.

9 MR. MAURER: We haven't heard any of any

10 operational taskings at this point.

11 MR. BLUMENTHAL: Okay. That was all I

12 had.

13 MR. MAURER: Our understanding is, and

14 Dave correct me, is pre-positioning of the team at this

15 point.

16 MR. BLUMENTHAL: Okay, that's what I

17 thought. I just wanted to check since you guys are

18 closer to center of --

19 FEMALE PARTICIPANT: (Inaudible.)

20 MR. BLUMENTHAL: Yes.

21 MR. MAURER: No, we haven't heard any

22 operational taskings at this point.

23 DR. BLUMENTHAL: Okay, thank you. I don't

24 have anything else.

25 MR. MAURER: Rhonda, do you have anything?

1 MR. BLUMENTHAL: Hold on. Rhonda, do you
2 have anything? Nothing from Rhonda.
3 0%BEHKP615365094
4 MR. BLUMENTHAL: When is the next call?
5 MALE PARTICIPANT: The next call is at
6 1700 Eastern.
7 FEMALE PARTICIPANT: At 1500?
8 MALE PARTICIPANT: In two hours or --
9 MR. BLUMENTHAL: Okay, thank you. Yes,
10 we're good here.
11 MALE PARTICIPANT: All right. We'll get
12 back to you on those questions, Dan. We'll talk to
13 Dean.
14 MR. BLUMENTHAL: Okay. I'm in the ROC.
15 MALE PARTICIPANT: Okay.
16 MR. MAURER: Okay, we'll see you at 1700.
17 TERRY: Hey, John Naastrom.
18 STEVE: Hi Terry. This is Steve. John
19 just stepped out. I'll get him back in. Hold on.
20 TERRY: Okay. Well, are you, okay--
21 STEVE: What?
22 TERRY: I'll wait until he comes back.
23 STEVE: Okay.
24 (CONFERENCE CALL ENDED.)
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14 0%BEWV%L15365049
15 MS. BROCK: NRC.
16 MR. DUDEK: Hi, this is Michael Dudek down
17 here at USAID. Whom am I speaking with?
18 MS. BROCK: Kathy Brock. How are you
19 doing?
20 MR. DUDEK: Good. How are you doing?
21 MS. BROCK: Good.
22 MR. DUDEK: I'm sitting here with a USAID
23 representative, and she's got an IOU to the her
24 administrator on NRC modeling and what we're doing, who
25 we're working with, and we need a public --

1 MS. BROCK: Well, it's not going to become
2 public, I don't think, but --
3 MR. DUDEK: We need a paragraph or a
4 couple of sentences on what we're doing, what we're
5 looking at, how we do things. Can you help her with
6 that?
7 MS. BROCK: Yes. I think basically what
8 we're doing is we're trying to do our models based on
9 the official information that we've received. Okay.
10 FEMALE PARTICIPANT: Okay. I'm sorry.
11 Can you, I'm going to type while you talk if that's all
12 right?
13 MS. BROCK: All right. Well, you guys
14 jump in if I say something stupid.
15 FEMALE PARTICIPANT: Oh, I'm the only one
16 on the line.
17 MS. BROCK: Oh no, I'm talking to the
18 people here.
19 FEMALE PARTICIPANT: Oh, okay. I won't
20 know if it's stupid.
21 MS. BROCK: They will. We've been, okay,
22 so, conducting our analysis using, what did I say,
23 officially available data from --
24 MALE PARTICIPANT: The government of
25 Japan.

1 MS. BROCK: From the government of Japan.

2 FEMALE PARTICIPANT: Okay.

3 MS. BROCK: We are working with our

4 counterparts in DOE to benchmark the analysis we do

5 with the analysis that they're doing. So it's a

6 coordinated effort.

7 FEMALE PARTICIPANT: Okay, one second.

8 MS. BROCK: Am I heading along the right

9 path for what you want?

10 FEMALE PARTICIPANT: I believe you are.

11 It wasn't entirely clear to me, it never is. But go

12 ahead.

13 MS. BROCK: What else you guys? What's

14 the question again?

15 FEMALE PARTICIPANT: Well, it was a rather

16 vague question to be honest, but it's just basically

17 what is NRC doing in terms of modeling? And, I'm --

18 MS. BROCK: We were watching very closely,

19 we're closely watching changes in meteorological data

20 to see how it impacts our analysis. That's one of the

21 big things right now.

22 Because the wind is generally blowing out

23 to sea, but as it shifts towards land, we want to

24 analyze that so that we can reinforce that the

25 protective measures taken by Japan, which is like

evacuation, that's still adequate and appropriate.

FEMALE PARTICIPANT: Okay.

MS. BROCK: You'll make it sound like real English, right?

FEMALE PARTICIPANT: Yes. You did really did really well. Okay, that's awesome.

MS. BROCK: All right. Good.

FEMALE PARTICIPANT: I'm going to rudely hang up abruptly, but I'm so grateful for this.

MS. BROCK: All right. Take care.

FEMALE PARTICIPANT: Okay. Thank you.

MS. BROCK: Bye.

FEMALE PARTICIPANT: Bye.

(CONFERENCE CALL ENDED.)

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FEMALE PARTICIPANT: NRC. This is the PNT.

MS. MARINISSEN: Yes, hello. I would like to you to take a message to team director.

FEMALE PARTICIPANT: We're here. Go ahead.

MS. MARINISSEN: This is Maria Julia Marinissen and Gregory Michaels from HHS from

(b)(5)

(b)(5)

messages. Is that correct?

FEMALE PARTICIPANT: Hang on, we're just talking.

MS. MARINISSEN: All right.

FEMALE PARTICIPANT: Okay, what are your questions?

MS. MARINISSEN: Well, we have a series of questions in writing. And also the CDC is working on them, but as I say, they asked us to coordinate with you so I wonder if we can send you the questions in writing?

FEMALE PARTICIPANT: Yes.

MS. MARINISSEN: Okay. Do you have an email where I can send the questions?

FEMALE PARTICIPANT: Yes. It's PMT12.Hoc@nrc.gov.

MS. MARINISSEN: Okay, it's PMT12.Hoc@nrc.gov. Correct?

MALE PARTICIPANT: Yes.

MS. MARINISSEN: All right, we will send you the questions. We got an urgent request. They want the answers by 4:15 or 4:30 at the maximum, because we have to run it by our Assistant Secretary,

1 Dr. Freeland, (b)(5) so if
2 you guys can look at the questions and tell us if you
3 can answer something really quick, at least to know if
4 will have to wait for you or not, it'd be fantastic.
5 FEMALE PARTICIPANT: We'll see what we can
6 do.
7 MS. MARINISSEN: Thank you.
8 FEMALE PARTICIPANT: Do you have a call-
9 back number in case we have any --
10 MS. MARINISSEN: Yes, it's (b)(6)
11 FEMALE PARTICIPANT: (b)(6)
12 MS. MARINISSEN: (b)(6)
13 FEMALE PARTICIPANT: (b)(6)
14 MS. MARINISSEN: (b)(6)
15 FEMALE PARTICIPANT: (b)(6) Is there
16 anyone specific to ask for?
17 MS. MARINISSEN: Yes, it's my phone. It's
18 Maria Julia Marinissen.
19 FEMALE PARTICIPANT: Maria?
20 MS. MARINISSEN: Yes, Marinissen. I'm
21 going to send you an email right now so you'll have my
22 name.
23 FEMALE PARTICIPANT: Okay. Thank you.
24 MS. MARINISSEN: Thank you so much. I
25 appreciate it.

1 FEMALE PARTICIPANT: Okay.

2 (CONFERENCE CALL ENDED.)

3 0%BFISI615365094 (No words to transcribe.)

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16 (CONFERENCE CALL INITIATED.)

17 JOHN: Okay, let's go ahead and get

18 started, although we're, I think we're still waiting on

19 NARAC because they've got a deadline to get a couple

20 plots out for a 1800 briefing. Let's start with the CM

21 Home Team. What are you guys working on?

22 MALE PARTICIPANT: Hi, John.

23 MALE PARTICIPANT: Hey, John.

24 0%BI1DGL15365094

25 MR. MAURER: Let's go ahead and get

1 started. I know we're waiting on NARAC, but could CM
2 Home Team give an update?
3 STEVE: NARAC is here. This is Steve and
4 Kevin Foster, and we'll get John if you need him.
5 MR. MAURER: Okay, no. I know he's
6 working hard.
7 STEVE: Yes, exactly.
8 MR. MAURER: I know it's a push. Let's
9 say, can you give us an update, Steve?
10 STEVE: Well, basically they're working on
11 the revised dose plot using the latest RASCAL data for
12 each of the reactors which, 40 percent core, 0.5
13 percent per day over 2 days, so that's in process.
14 MR. MAURER: Okay. Let's see, CM Home
15 Team. What are you working on?
16 MALE PARTICIPANT: We got the guys too,
17 they're building the pallets. Other personnel have
18 departed home, to get their baggage, they're on the way
19 back. We've got Nellis (phonetic) whose been here
20 helping us with the palleting.
21 We've been in contact with Chris back in
22 your area, and he's trying to get us some names of
23 point of contact in Yokota of things they can help us
24 with, such as billeting, food, transportation, things
25 like that, internet contacts, so we're working all

1 those issues.

2 MR. MAURER: Okay. All right. Good.

3 Let's see, is the NRC on?

4 MALE PARTICIPANT: Yes, the NRC is here.

5 MR. MAURER: Okay. Do you have any

6 updates?

7 MALE PARTICIPANT: We don't have any new

8 information here. No updates.

9 MR. MAURER: All right. Let's see. Dan

10 Blumenthal, are you on?

11 MALE PARTICIPANT: No, Dan has left. He

12 is going to build himself a little go package as well.

13 He should be back shortly. What do you need?

14 MR. MAURER: No, I'm just going around the

15 table, see if anybody has anything they want to bring

16 up.

17 MALE PARTICIPANT: All right.

18 MR. MAURER: Okay, so --

19 HANS: Hey, Rick.

20 MR. MAURER: Yes, go ahead.

21 HANS: Yes, this Hans (phonetic) on Home

22 Team. You asked about Home Team, we didn't answer.

23 Basically, we got the dose assessment stuff back to

24 NARAC on the plot should it hit landfall on the West

25 Coast or Hawaii or Anchorage.

1 And then we're answering your questions
2 about the plots and working on a shift schedule for
3 long-term coverage for this, and that's about it. Just
4 trying to gain a little more situational awareness.
5 MR. MAURER: Okay. All right. Sounds
6 good. We're going to do a shift change here at 1900,
7 so I'd like to schedule the next conference call for
8 2000 Eastern time. Okay, so ring back in at 2000
9 Eastern time. Thank you.
10 (CONFERENCE CALL ENDED.)
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14 0%BJ%10L15365094
15 (CONFERENCE CALL INITIATED)
16 FEMALE PARTICIPANT: NRC, this is the PMT.
17 MR. VOGT: Yes, this is Phil Vogt calling.
18 I'm returning Tom Galletta's call.
19 FEMALE PARTICIPANT: Just a moment. Tom?
20 MR. GALLETTA: Hello, this is Tom
21 Galletta.
22 MR. VOGT: Hi, Tom. This is Phil Vogt.
23 MR. GALLETTA: Phil, we were looking to
24 see if you had some actual met data from early in the
25 event that we could replace the forecast met data with.

1 MR. VOGT: Yes, all of our normal
2 observations went away after the earthquake. We have
3 no observations whatsoever except like at Sendai
4 Airport.
5 MR. GALLETTA: Okay, yes. We were looking
6 at Sendai and we're also looking at Yokohama.
7 MR. VOGT: We haven't been able to find
8 anything that we feel is close enough and is
9 representative of what's going on at the coast right
10 there.
11 MR. GALLETTA: Okay.
12 MR. VOGT: I do know that there
13 meteorological observations taken at the power plants
14 in Japan. I'm pretty sure that data is not out in the
15 public though.
16 But I'm hoping at some point we'll be able
17 to get to that data from either Jerry or whatever other
18 organizations. But we do not have any observational
19 information that we believe is relevant, even remotely
20 relevant at this time.
21 MR. GALLETTA: Okay, so the bottom line is
22 you've only used forecasts --
23 MR. VOGT: Correct.
24 MR. GALLETTA: -- in NOAC. Okay, would
25 you be willing to give us a call at some point if you

1 have something reliable.

2 MR. VOGT: If we ever get real obs, you

3 bet.

4 MR. GALLETTA: Okay.

5 MR. VOGT: We can do that.

6 MR. GALLETTA: Very good.

7 MR. VOGT: All right, Tom.

8 MR. GALLETTA: Thank you.

9 MR. VOGT: Bye.

10 MR. GALLETTA: Bye now.

11 (CONFERENCE CALL CONCLUDED)

12

13 0%BML97_15365094

14 (CONFERENCE CALL INITIATED)

15 MS. HART: NRC, this is the PMT.

16 MR. LENTZ: Hi, how are you doing? My

17 name is Rick Lentz. I'm the director of radiological

18 controls at Naval Reactors, calling with regards to

19 issues in Japan.

20 I have some new radiological data. Am I

21 talking to the correct person?

22 MS. HART: You are talking to the correct

23 person, yes.

24 MR. LENTZ: Okay, what's your name, ma'am?

25 MS. HART: My name is Michelle Hart. I'm

1 the radiological assessment assistant director.

2 MR. LENTZ: Okay, I'm sorry. I missed

3 your name.

4 MS. HART: Michelle Hart.

5 MR. LENTZ: Michelle --

6 MS. HART: Hart, H-A-R-T.

7 MR. LENTZ: Okay, I got it. Okay, not

8 sure where you're at in this, but I presume you know

9 that the wind has shifted to the southwest.

10 MS. HART: Yes, we do know that, thank

11 you.

12 MR. LENTZ: Okay, we are getting positive

13 radiological data now all the way down to Yokosuka near

14 where we have the George Washington aircraft carrier.

15 MS. HART: Okay.

16 MR. LENTZ: I'll just run you through some

17 of the data we have right now. We got at 1800 Eastern

18 Standard Time, a one cubic meter (inaudible) sample, so

19 a particulate measurement, about 2.4 times 10 to the

20 minus eight microcuries per milliliter.

21 MS. HART: Okay, that's 2.4 ten to the

22 minus eight microcuries per milliliter?

23 MR. LENTZ: Yes, ma'am.

24 MS. HART: And that's particulate?

25 MR. LENTZ: Yes, ma'am.

1 MS. HART: Gross (phonetic)?

2 MR. LENTZ: Yes, ma'am.

3 MS. HART: Okay.

4 MR. LENTZ: However, we did get a
5 radionuclide breakdown on that and it is consistent
6 with what we've seen elsewhere. So we saw Iodine 131,
7 132, Tellurium 132, Iodine 133 and Cesium 134 and 137.

8 MS. HART: Okay.

9 MR. LENTZ: Now when you look at the
10 spectral data it is consistent with what we saw on
11 radion (phonetic) when she was out east off the coast.

12 MS. HART: Okay.

13 MR. LENTZ: Let's see, additionally we got
14 a water sample from a tank on, I want to say it was the
15 barge we have out there, and we detected Iodine 131 and
16 Cesium 137 in that as well.

17 So again consistent with type of
18 radioactivity we're seeing in the plume. Let's see
19 here.

20 Additionally, we started to get airborne
21 radioactivity levels inside the aircraft carrier. The
22 maximum we saw there was 7.5 times ten to the minus
23 nine microcuries milliliter.

24 MS. HART: Okay, that was 7.5, ten to the
25 minus nine microcuries per milliliter?

1 MR. LENTZ: Yes, ma'am. Hang on one
2 second, please.
3 I'm sorry, correction. That one turns out
4 to be three times ten to the minus nine. The folks
5 that took it were using Cobalt-60 (inaudible).
6 MS. HART: Okay, three times ten to the
7 minus nine microcuries.
8 MR. LENTZ: Yes, same order of magnitude.
9 MS. HART: Okay.
10 MR. LENTZ: Additionally, we are now
11 starting to see ground deposition outside. At 1904
12 Eastern Standard Time we received a report that there
13 was 450 picocuries per direct probe on the ground.
14 So the plume is starting to deposit a low
15 level of radioactivity as far down as Yokosuka.
16 MS. HART: Okay, can you spell the name of
17 the location?
18 MR. LENTZ: Y-O-K-O-S-U-K-A, Yokosuka.
19 MS. HART: Okay, thank you.
20 MR. LENTZ: And (inaudible), so it's
21 basically a naval base down there, and we have U.S.S.
22 George Washington parked there right now.
23 MS. HART: Okay, so you're near the shore?
24 MR. LENTZ: Yes.
25 MS. HART: Okay, and the water sample was

1 from what time?

2 MR. LENTZ: About 1800.

3 MS. HART: 1800, along with the air level?

4 MR. LENTZ: Yes. My guess is when they

5 were drawing a sample it probably got mixed in with

6 whatever plume happened to be in the space at the time.

7 MS. HART: Is that all the information

8 that you have for us at this time?

9 MR. LENTZ: Currently, yes.

10 MS. HART: Okay. And can I get your name

11 again, and a contact number in case we need to get in

12 contact with you again?

13 MR. LENTZ: Sure, my name is Rick Lentz,

14 L-E-N-T-Z.

15 MS. HART: L-E-N-T-Z, okay.

16 MR. LENTZ: I'm the director of

17 radiological controls for Naval Reactors.

18 MS. HART: Okay.

19 MR. LENTZ: And my number is 202-781-5993.

20 MS. HART: 5993.

21 MR. LENTZ: And if I'm not here, my relief

22 for the back shift here will be George Davenport.

23 MS. HART: Okay.

24 MR. LENTZ: D-A-V-E-N-P-O-R-T, and he can

25 be reached at the same extension.

1 MS. HART: Okay, and the first name again
2 was, I'm sorry, George?
3 MR. LENTZ: George.
4 MS. HART: Okay. All right, thank you
5 very much.
6 MR. LENTZ: No problem, take care.
7 MS. HART: Yes, you too.
8 MR. LENTZ: Bye.
9 (CONFERENCE CALL CONCLUDED)
10
11 0%BN@Q$L15365094
12 (CONFERENCE CALL INITIATED)
13 MS. HART: NRC, this is Michelle Hart in
14 the PMT.
15 MR. ULSES: Yes, this is Tony Ulses
16 calling in. How are you doing?
17 MS. HART: I'm good, how are you?
18 MR. ULSES: Fine, thanks. I'm going to
19 walk back to the embassy.
20 Hey, I want to pass on some information
21 out here I just received. Staff from Yokosuka called
22 me in the hotel and woke me up a little bit ago
23 indicating that the rad monitors down there on several
24 of their assets are beginning to pick up some
25 microbecquerel levels of activity.

1 Best I can tell from the email, they're
2 beginning to institute shelter in place in their
3 schools down there. I don't know if this is all
4 confirmed yet, I'm trying to get a hold of the guy.
5 I called his number back and it's not a
6 good number, so I was wondering if you get me any other
7 reports about any activity measurements.
8 MS. HART: This is in Yokosuka?
9 MR. ULSES: Yes, just south of Tokyo.
10 MS. HART: South of Tokyo.
11 MR. ULSES: I'm going to keep working to
12 try and get a hold of this guy again.
13 MS. HART: And you said it was
14 microbecquerel?
15 MR. ULSES: Yes, I'll forward you guys the
16 email, okay, that I got.
17 MS. HART: Okay.
18 MR. ULSES: I'll forward it to the Liaison
19 Team. That's the only email address that I have.
20 MS. HART: Okay.
21 MR. ULSES: So just go get it from them,
22 all right?
23 MS. HART: All right, thank you.
24 MR. ULSES: And I'm going to keep trying
25 to get a hold of this guy, his name is something

O'Malley (phonetic), and we'll hook up in a little bit after I get a hold of this guy, all right?

MS. HART: All right, thank you.

MR. ULSES: All right, and it's on the way now.

MS. HART: Thank you.

MR. ULSES: Bye.

(CONFERENCE CALL CONCLUDED)

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(CONFERENCE CALL INITIATED)

MR. HOLAHAN: NRC, Vince Holahan.

MR. ULSES: Hey, Vince, it's Tony Ulses calling.

MR. HOLAHAN: Hey, Tony, what's up?

MR. ULSES: Not much. Is this the Protective Measures Team?

MR. HOLAHAN: Yes, it is.

MR. ULSES: Did you guys get that email that I sent you?

MR. HOLAHAN: We got your email.

MR. ULSES: Okay, I realize those activity measurements are extremely low. What I asked, I called back there and talked to the guy on the Ops 6 there and

1 asked them if they have the ability to get any met
2 data, thinking that you guys would eventually need that
3 to be able to make heads or tails of that, so they're
4 trying to get me contact information.
5 What I think concerns me most about that
6 was the part at the end of the email (b)(5)
7
8 (b)(5)
9
10 Apparently right now what's happening is
11 the folks down at the base are talking to the
12 ambassador and General Field (phonetic) actually
13 regarding that question of whether they should take
14 some sort of protective action down there.
15 So we're waiting to see what happens
16 there, but I just wanted to call and give you the
17 latest.
18 MR. HOLAHAN: Okay, Tony, do you know if
19 they can confirm the thyroid doses and the TEDE doses
20 over a 12-hour period?
21 MR. ULSES: I'm not really sure, but you
22 know what I need to do is get you guys a direct
23 commlink with them. I have a DSN line for the guy at
24 the Ops desk, but I'll call him back after we're done
25 here and see if I can get a direct line.

1 MR. HOLAHAN: The reason I bring this up
2 is, you know, we've got RASCAL. RASCAL's good to about
3 50 miles and we're really pushing the limits on what we
4 can do.
5 MR. ULSES: Okay.
6 MR. HOLAHAN: And we shared the email that
7 you sent us. We also got a phone call from the folks
8 down at Naval Reactors with some complementary
9 information. It's probably coming out of the same
10 reporting.
11 (b)(5)
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17 MR. ULSES: That's my concern as well. I
18 share the same concerns.
19 MR. HOLAHAN: So needless to say, we're
20 trying to run some calculations right now to see if we
21 can confirm or refute, but any additional information
22 you can send us would be greatly appreciated.
23 MR. ULSES: Okay, well, what I'm trying to
24 get from the folks at Yokosuka is one, a number for the
25 people down there that can get you some met data. I

1 don't know if you need that but I'm assuming you would.
2 And if you don't, tell me and I won't bother pushing
3 that anymore.
4 MR. HOLAHAN: Well, having some real
5 numbers would be nice. We've got projections that came
6 out of DOE, so I mean right now we're basically looking
7 at the winds coming out of the north northeast from
8 Fukushima. They should be heading right through Tokyo
9 right now.
10 The other thing is they should continue
11 more to the east for a period of time as this front
12 goes through, and then the wind direction's reversing
13 again.
14 MR. ULSES: All right. And I'm going to
15 try, and also you need to talk to the people who took
16 these measurements, or rather put this stuff together
17 to make sure you understand what the numbers mean. Is
18 that what I thought I heard as well?
19 MR. HOLAHAN: That's it.
20 (CONFERENCE CALL CONCLUDED)
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11 0%C!H1#_15365094
12 (CONFERENCE CALL INITIATED)
13 MR. ULSES: You guys there?
14 MS. HART: Yes, we're still here. Vince
15 had to go in the other room for the chairman. This is
16 Michelle Hart.
17 MR. ULSES: Okay. Well, can you answer my
18 question? Do you guys need to talk to the folks down
19 at Yokosuka that put these measurements together to try
20 and better understand them? Because I can try and get
21 that information as well.
22 MS. HART: If you can try to get us hooked
23 up with them that would be great.
24 MR. ULSES: Okay. It's probably going to
25 be a DSN line. I hope you guys have that capability in

1 the Ops Center. I don't know.

2 MS. HART: I don't know either.

3 MR. ULSES: Because these guys talk DSN.

4 I'm going to call this guy back right now and I'll get

5 back to you, all right. Give me a minute to get back

6 to you.

7 MS. HART: All right. Thank you, Tony.

8 MR. ULSES: All right. Actually, you

9 know, hold it. Can you connect me to the Reactor

10 Safety Team real quick? I need to ask them a question.

11 MS. HART: I don't think I can do this

12 from the phone, but I can get -- can you get somebody

13 over? Hold on a moment.

14 Tony Ulses on the phone.

15 BILL: Hey, Tony.

16 MR. ULSES: Hello, is this Bill?

17 BILL: The one and only.

18 MR. ULSES: Hi, Bill. I heard last night

19 that there was another explosion at Unit 2?

20 BILL: Yes.

21 MR. ULSES: Any idea what happened?

22 Because they had taken the roof off the building and

23 they shouldn't have had any hydrogen buildup following

24 that.

25 BILL: Well, they had apparently this

1 hydrogen explosion, and as a result of the explosion
2 they lost, the pressure in the suppression pool went
3 down from three atmospheres to one atmosphere. It
4 essentially equalized.
5 MR. ULSES: Oh, that's not good.
6 BILL: Now they, you know, people are
7 theorizing that was sort of a, you know, that the
8 containment has fractured. And the question I'm asking
9 is maybe it was just a relief valve, the vacuum
10 breakers on the suppression pool that lifted and
11 somehow, you know, stuck open or something and then
12 they got them shut.
13 MR. ULSES: Yes, because I specifically
14 talked to that fellow last night from NISA I think he
15 was, and he told me specifically that they had taken a
16 large chunk of the roof off of the building, off the
17 reactor building at Unit 2.
18 You know, what I need to do, Bill, on that
19 is I've been, I need to get (b)(5)
20 and I'll see if I can figure out what's going on.
21 BILL: Okay, hold on a second here. Okay,
22 yes, so anyway that's my theory anyway that somehow
23 the, you know, it was related to the, that they did
24 have an explosion is related to the vacuum breakers and
25 somehow, you know, there's debris maybe in an explosion

1 and the vacuum breaker stuck open.

2 You know what I'm talking about, right?

3 MR. ULSES: Yes, I understand. Well,

4 basically that violates the integrity of primary

5 containment, right, unless they can close that. Is

6 that correct?

7 BILL: That's correct. And have you ever

8 seen these vacuum breakers?

9 MR. ULSES: No.

10 BILL: Yes, it's just a big check valve,

11 and there's a weight on it that keeps it, you know,

12 it's like I think I want to say some fraction of a

13 pound difference, right, and it's actually there to

14 prevent the collapse of the suppression pool.

15 So one would think if you had an explosion

16 near this vacuum breaker it would pop open.

17 MR. ULSES: Yes, I agree. Well, I guess,

18 you know, I mean ultimately we're not going to know,

19 but the bottom line is they had an explosion and sounds

20 like they lost primary containment in Unit 2.

21 Okay, all right, Bill, thanks. I've got

22 to get back to these Navy guys and try and find out

23 what's going on down at Yokosuka.

24 BILL: Hey, you heard about this 20

25 millirem, right?

1 MR. ULSES: Negative, where is it?

2 MS. HART: It was in the email you just

3 sent us.

4 MR. ULSES: It was? (b)(6)

5 (b)(6)

6 BILL: God dang it, why don't you read it

7 to him?

8 MR. ULSES: I thought I saw 20, did I see

9 20 mR in here? Is that what I was reading? I thought

10 it was 2.

11 MS. HART: 20 mR TEDE, 120 mR thyroid.

12 MR. ULSES: Oh, yes, okay. I'm sorry,

13 over a 12-hour period. All right.

14 BILL: You left out a period?

15 MR. ULSES: No, no, over a 12-hour period.

16 BILL: But it's still, but this what, a

17 hundred miles away?

18 MR. ULSES: Yes, roughly, or even -- yes,

19 roughly, to the south.

20 BILL: You can imagine, if they're reading

21 roughly a little less than two millirem an hour, you

22 know, 100 miles away, what the heck is it at the plant?

23 MR. ULSES: I don't know. You know, at

24 this point I think we're trying to figure out how to

25 get that information. So okay, well, I've got to go.

I've got to call these Navy guys back.

BILL: Hey, sure, thanks. Bye.

MR. ULSES: All right, thanks. Bye.

(CONFERENCE CALL CONCLUDED)

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(CONFERENCE CALL INITIATED)

LUDIVIS: NARAC, this is Ludivis (phonetic). May I help you?

MS. HART: Yes, this is Michelle Hart at the NRC Headquarters PMT.

LUDIVIS: Michelle?

MS. HART: Yes.

LUDIVIS: Michelle Hart?

MS. HART: That's correct.

LUDIVIS: Yes, may I help you?

MS. HART: Yes, we have some information we've gotten from a Navy base in Japan about some airborne radioactivity.

LUDIVIS: Yes.

MS. HART: Converted into TEDE and thyroid doses, and we wanted to see if there was something that

1 you could do to help to confirm these rates based on
2 what we know in the plant now.
3 LUDIVIS: Oh, okay. Now are you working
4 with someone here in the NARAC Center?
5 MS. HART: We were working with -- do we
6 have a contact name?
7 MALE PARTICIPANT: For NARAC?
8 MS. HART: No, we don't.
9 MALE PARTICIPANT: Is that an extension,
10 4603?
11 MS. HART: We have extension 4603. We
12 don't have a name for some reason.
13 LUDIVIS: Yes, unfortunately that's -- and
14 did you want to add additional information to one of
15 our plots or you haven't seen the plots.
16 MS. HART: I have seen some of the recent
17 plots. You know, I --
18 LUDIVIS: I can, if you, and you said this
19 is Michelle?
20 MS. HART: Michelle, yes.
21 LUDIVIS: Okay. And you're with the NSC?
22 MS. HART: NRC, Nuclear Regulatory
23 Commission.
24 LUDIVIS: NRC, just one minute, please.
25 Thank you.

1 MS. HART: I'm sorry, I confused her. I
2 confuse myself.
3 MS. POBANZ: This is Brenda Pobanz at
4 NARAC. You have some monitoring data from Japan.
5 MS. HART: That is correct, yes.
6 MS. POBANZ: Okay, what for it, you have
7 times, locations?
8 MS. HART: We have some information from
9 the George Washington carrier at the Yokosuka Base.
10 MS. POBANZ: Okay.
11 MS. HART: And do we have a lat and long
12 on that we can give them, or can you get that
13 information?
14 I'm asking --
15 MS. POBANZ: Yes, to make it work we kind
16 of need lat, long, time it was taken, value, units.
17 MS. HART: Right. Now what we have is the
18 data was taken on March 15th at 0700.
19 MS. POBANZ: Okay. UT (phonetic), is that
20 local?
21 MS. HART: I'm assuming that's local. It
22 does not say that specifically.
23 MS. POBANZ: Okay.
24 MS. HART: It was airborne radioactivity.
25 We have 6,000 corrected counts per minute, and they

have in parenthesis (1.5 ten to the minus eight microcuries per milliliter).

MS. POBANZ: Hang on for a second.

Kevin, the NRC is giving some data from the George Washington. Is this the same data that you have, this 6,000 counts per second? Okay, take it?

KEVIN: Sure.

MS. POBANZ: Okay. Okay, sorry. I'm just double checking here that we don't have it already and I'm writing it down on this other sheet of paper.

MS. HART: Okay.

MS. POBANZ: Okay, so I'm sorry, 6,000 --

MS. HART: Corrected counts per minute.

MS. POBANZ: Counts per minute.

MS. HART: That's correct.

MS. POBANZ: Okay, 1.5 (inaudible) minus eight microcuries per milliliter.

MS. HART: That's correct.

MS. POBANZ: Okay.

MS. HART: We have another one. Seven, ten to the minus nine microcuries per milliliter. And they said that this would result in a dose over a 12-hour period of 20 millirem TEDE, and 120 millirem thyroid, CBE.

MS. POBANZ: Okay, millirem.

1 MS. HART: And of course we're trying to
2 verify these dose. We do not have the isotopic or any
3 of that information. This is gross airborne
4 radioactivity.
5 MS. POBANZ: Okay.
6 MS. HART: And do we have the lat and
7 long?
8 We have, it's 35 degrees, 17.1 minutes
9 north.
10 MS. POBANZ: Okay.
11 MS. HART: 139 degrees, 40.4 minutes east.
12 MS. POBANZ: Okay, thank you.
13 MS. HART: And I'm sorry, who is this I
14 was talking to again?
15 MS. POBANZ: This is Brenda Pobanz.
16 MS. HART: Okay, and spell your last name?
17 MS. POBANZ: P-O-B-A-N-Z.
18 MS. HART: A-N-Z, okay. And do you have
19 an approximate time that you think you might be able to
20 figure this all out?
21 MS. POBANZ: Well, you know, the model
22 runs are taking an awfully long time because we're
23 starting back from when the first one went and trying
24 to follow it the whole time.
25 MS. HART: Right.

1 MS. POBANZ: So it's going to take us a
2 couple hours to figure all this out and get a model
3 rundown that we can compare it to.
4 MS. HART: Okay.
5 MS. POBANZ: Okay?
6 MS. HART: And you were aware of the
7 second building? MS. POBANZ: The news is
8 saying that, yes. Are you aware of it being, is it
9 another hydrogen explosion or have you heard that it's
10 another kind?
11 MS. HART: I don't think it's the same
12 kind of explosion we saw before?
13 Do you want to add something, Vince?
14 We don't really know. It seems to be for
15 a slightly different reason than the previous
16 explosion.
17 MS. POBANZ: Okay.
18 MR. HOLAHAN: The big difference right now
19 is we've had a significant shift in the met data so
20 that wind is now coming out of the north northeast.
21 And there's quite a bit of concern right now. We're
22 trying to get information back to the U.S. embassy in
23 Japan. So the question is is what the protective
24 status recommendations to U.S. nationals there.
25 MS. POBANZ: Right, okay.

1 MS. HART: So is this enough information
2 or would you need something additional?
3 MS. POBANZ: Well, we have various pieces
4 of information so we're sort of adding this to
5 everything we have and trying to sort it all out.
6 MS. HART: Okay.
7 MS. POBANZ: All right, thank you guys.
8 MS. HART: Thank you.
9
10 MS. POBANZ: Bye bye.
11 MS. HART: Bye.
12 (CONFERENCE CALL CONCLUDED)
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11 (CONFERENCE CALL INITIATED)
12 MS. HART: Hello, this is Michelle Hart
13 from the NRC Headquarters Operation Center. Is there
14 anyone on this line?
15 MALE PARTICIPANT: (Inaudible) station,
16 this is the NAC (phonetic) again.
17 MS. HART: Yes, I was given this number to
18 get information on -- I'm on a call here, excuse me.
19 I had this number to get information on
20 some radioactivity readings we had from the Yokosuka
21 Base.
22 MR. RIKERS: This is Neil Rikers
23 (phonetic), ECC, we'll provide that data separately.
24 MS. HART: I'm sorry, say that again?
25 MR. RIKERS: Neil Rikers, ECC, we'll

1 provide that data to you separately.

2 MS. HART: I have some questions about the

3 data and how the doses were calculated.

4 Is there somebody I can call to ask those

5 specific questions about how these were, to verify

6 these numbers and see how the millirems were analyzed,

7 the assumptions that went into that?

8 MALE PARTICIPANT: NAC, this is GW. You

9 ready for a 1000 APD reading?

10 MALE PARTICIPANT: GW, this is NAC

11 standing by.

12 MALE PARTICIPANT: Number one, 9.7 for the

13 minus eleven, number 3, 1.2 for the minus ten. And I

14 won't be able to give you flight deck data until about

15 10:15. We had to get some guys up there with radios

16 for communication.

17 MALE PARTICIPANT: Okay, I understand

18 number one, 9.7 times ten to the minus eleventh, and

19 number three is 1.2 times ten to the minus tenth. And

20 flight deck data to be provided in ten to 15 minutes.

21 MALE PARTICIPANT: Correct.

22 MALE PARTICIPANT: All right.

23 MR. RIKERS: Is the NRC USE (phonetic)

24 still on the line.

25 MALE PARTICIPANT: Has now shifted to --

1 MS. HART: The NRC is still here.

2 MR. RIKERS: We'll talk separately about

3 the information request. I'll give you a number for

4 that.

5 MS. HART: Okay, thank you?

6 MR. RIKERS: You ready?

7 MS. HART: Yes, I'm ready.

8 MR. RIKERS: 202-781-5983.

9 MS. HART: 5983, is there a person's name?

10 MR. RIKERS: John Halverson (phonetic)

11 (inaudible).

12 MS. HART: John Halverson. Thank you,

13 sorry.

14 (CONFERENCE CALL CONCLUDED)

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11 (CONFERENCE CALL INITIATED)
12 MR. ALLWORTH: Naval Reactors, Allworth
13 (phonetic).
14 MS. HART: Yes, this is Michelle Hart at
15 the NRC Headquarters Operations Center.
16 MR. ALLWORTH: I'm sorry, Michelle who?
17 MS. HART: Michelle Hart.
18 MR. ALLWORTH: Hart, H-A-R-T.
19 MS. HART: That's correct.
20 MR. ALLWORTH: Okay.
21 MS. HART: I'm the radiological assessment
22 assistant director, and we have received from data
23 from, passed through one of our employees in Japan from
24 a Richard O'Malley (phonetic) out at Yokosuka.
25 MR. ALLWORTH: Right.

1 MS. HART: And we wanted to verify the
2 numbers that were given and see if you can give us some
3 additional information on how the TEDE and thyroid
4 doses were calculated, that were given to us.
5 MR. ALLWORTH: Okay, I'll do the best I
6 can and if I can't I will find somebody that can.
7 MS. HART: Okay, this was radiological
8 data that was from the George Washington and the nearby
9 barge that was taken at approximately 0700 on 15 March.
10 MR. ALLWORTH: Is that Japan time?
11 MS. HART: Yes.
12 MR. ALLWORTH: Okay.
13 MS. HART: I believe so anyway. It does
14 not say. The barge had a 6,000 corrected counts per
15 minute.
16 MR. ALLWORTH: Right on the top of it,
17 yes.
18 MS. HART: Right, airborne radioactivity,
19 and that was 1.5 E ten (phonetic) minus eight
20 microcuries per ml.
21 MR. ALLWORTH: 1.8 is in the negative.
22 Sorry, what?
23 MS. HART: Yes, 1.5 ten to the minus eight
24 microcuries per milliliter.
25 MR. ALLWORTH: Okay.

1 MS. HART: Does that sound, is that --

2 MR. ALLWORTH: Yes, those data points are

3 (inaudible) I have in our system.

4 MS. HART: Okay, and then one from the

5 George Washington itself, seven, ten to the minus nine

6 microcuries per milliliter.

7 MR. ALLWORTH: Right, that was 1700

8 Eastern Time, so checking our local or -- yes,

9 (inaudible) conversion, for 1500 local (phonetic) I

10 think.

11 MS. HART: Yes, it says 0700, I think

12 that's probably --

13 MR. ALLWORTH: Right, okay. That'd be

14 right.

15 MS. HART: And then the Berth 12 area was

16 450 picocuries for the direct probe.

17 MR. ALLWORTH: Yes, that's the one where

18 we're using the same time period.

19 MS. HART: Okay.

20 MR. ALLWORTH: We've found higher than

21 that more recently. I've gotten my data put together

22 for you guys.

23 MS. HART: Yes, we would be interested in

24 more recent data.

25 MR. ALLWORTH: I am putting it together as

1 we speak.

2 MS. HART: The email also had that the

3 radioactivity for, with result in a following dose over

4 a 12-hour period, and it says 20 millirem TEDE and 120

5 millirem CDE thyroid.

6 MR. ALLWORTH: 120 thyroid?

7 MS. HART: 120 millirem thyroid.

8 MR. ALLWORTH: (Inaudible).

9 MS. HART: And that particular information

10 as well is conferring us here and we wanted to try to

11 verify how this is calculated.

12 You know, we don't have the isotopic, you

13 know, how were those previous numbers converted into

14 those doses? Do you have any additional information on

15 that?

16 MR. ALLWORTH: I believe I can walk you

17 through that. We've been working off of isotopic data

18 we have from swipes off of a helicopter from yesterday.

19 MS. HART: Okay.

20 MR. ALLWORTH: It shows we call a modified

21 mixed fission products mixture.

22 MS. HART: Okay, where was the helicopter

23 located?

24 MR. ALLWORTH: The helicopter flew through

25 we believe to be the plume direction. It landed at

1 Toogee (phonetic) Base where we took the swipes.

2 MS. HART: Okay. Do you how far it was

3 from the Fukushima plant?

4 MR. ALLWORTH: I don't have that data

5 except anecdotally but it --

6 MS. HART: Okay. It was intended to fly

7 through the plume?

8 MR. ALLWORTH: Right, it was going within

9 the 50-mile region.

10 MS. HART: Okay, thank you.

11 MR. ALLWORTH: I believe we provided the

12 isotopic data to NRC yesterday.

13 MS. HART: Okay, so it's the same isotopic

14 information from yesterday?

15 MR. ALLWORTH: Yes.

16 MS. HART: Do you know what time you

17 provided that?

18 MR. ALLWORTH: Let's see, to NRC -- or to

19 DOE I did it at 0530 yesterday. NRC I believe was

20 right before then, but I'd have to verify it. I didn't

21 do that particular transfer.

22 MS. HART: Okay.

23 MR. ALLWORTH: We can send it again if you

24 guys need it again.

25 MS. HART: That would be great, instead of

1 searching through our files.

2 MR. ALLWORTH: Right, do you have a fax

3 number?

4 MS. HART: We'll get that for you.

5 MR. ALLWORTH: Okay. Now I'm not sure

6 we're saying 20 thyroid. I think we're saying 100

7 thyroid based on --

8 MS. HART: On more recent?

9 MR. ALLWORTH: Based on ICRP, just

10 conversion from that dose.

11 MS. HART: Oh, the same information?

12 MR. ALLWORTH: Right.

13 MS. HART: Now these doses that were

14 calculated that I had mentioned earlier, would that be

15 more related to where the helicopter was if you had

16 looked at that, or where the base is?

17 MR. ALLWORTH: Essentially we backed

18 (phonetic) it out using dispersion calculations and

19 correlating with direct gamma readings we got from CVN

20 76, and airborne data there.

21 So we used, the CVN 76 airborne data is

22 downwind, worked dispersion back in (inaudible)

23 distances and then we used the distance that best

24 applied to Yokosuka. I believe that was the 150-mile

25 distance, (inaudible) distance.

1 So using that is how we determined what
2 the dose rates would be for that period assuming a 12-
3 hour event.
4 MS. HART: Okay, so those are intended to
5 show what the dose rates would be at Yokosuka?
6 MR. ALLWORTH: Right, assuming we had the
7 same mixture.
8 MS. HART: Do you have any real met data,
9 you know, recent readings?
10 MR. ALLWORTH: I'm sorry, I'm not familiar
11 with the term "met data."
12 MS. HART: Meteorological data, wind
13 speed, direction?
14 MR. ALLWORTH: Not that we've integrated
15 into our calculations, no.
16 MS. HART: Okay. I think we've got that
17 fax number for you.
18 MR. ALLWORTH: Okay.
19 MS. HART: It is area code 301-816-5151.
20 MR. ALLWORTH: 5151?
21 MS. HART: And put attention to PMT.
22 MR. ALLWORTH: PMT?
23 MS. HART: That's correct.
24 MR. ALLWORTH: Okay, I'll send our data as
25 well as our isotopic with that.

1 MS. HART: All right. So you'll have more
2 recent data than the --
3 MR. ALLWORTH: Yes, we've got data up,
4 clean (phonetic) data up until they load (phonetic).
5 The most recent data is about 2046 Eastern Time.
6 MS. HART: 2046 Eastern? Okay, thank you.
7 All right, I think that's all the information that we
8 wanted for now. Are you a good contact for this sort
9 of information if we have a question in the future?
10 MR. ALLWORTH: Yes.
11 MS. HART: Okay, thank you very much.
12 MR. ALLWORTH: Thank you.
13 MS. HART: Bye.
14 (CONFERENCE CALL CONCLUDED)
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(CONFERENCE CALL INITIATED)

MS. HART: This is Michelle Hart at the Headquarters PMT.

MARK: This is Mark (inaudible), Headquarters Operation Officer. I've got Paul Holland on the line from Exelon. He was asked to call in for the PMT.

MS. HART: Okay, thank you.

MARK: Connecting him now.

MR. HOLLAND: Hello?

MS. HART: Hello.

MR. HOLLAND: Yes, hello. This is Paul Holland from Exelon Corporation. I received a phone call from Chip Pardee that the NRC asked to talk to me about some dose assessment results from over in Japan about, something about a ship offshore, military? Pardon me?

1 MS. HART: Excuse me, I'm sorry, say that
2 again.
3 MR. HOLLAND: Yes, I was asked to call the
4 NRC about some doses from offsite from over in Japan.
5 MS. HART: Was this work that you had done
6 for Naval Reactors or something, or what is this?
7 MR. HOLLAND: No, this has to deal with
8 apparently the NRC, it was reported in the NRC that on
9 a ship offshore, military ship, 180 miles out is what I
10 was told --
11 MS. HART: Okay.
12 MR. HOLLAND: -- yes, they'd received like
13 a 20 millirem over 12 hours.
14 MS. HART: Yes, that is the information
15 that they had given us.
16 MR. HOLLAND: Okay, and my question is
17 that I was told to call here and offer up any
18 assistance that I could in terms of dose assessment.
19 Yes, by Chip Pardee from Exelon Corporation.
20 MS. HANEY: Yes, hi, this is Kathy Haney
21 (phonetic). I believe our call went from our Executive
22 Team through the various channels to get down to you.
23 And I think what they were looking for was
24 a sandpoint of just some verification or I guess more
25 confirmation of some doses based on some deposition

1 rates that we had.

2 So if we give you what numbers we have

3 from Naval Reactors, I guess what we're curious is if

4 you guys can do some calculations to see what dose

5 measurements you would come up with.

6 MR. HOLLAND: Well, we can try, sure.

7 MS. HANEY: Okay, so these are, again

8 it's, you know multiple sources. The validity of these

9 numbers are being questioned.

10 But what I'll do is have Michelle just

11 give you the numbers, and then if you want to just do,

12 you know, see what you guys come up with that would be

13 great.

14 MR. HOLLAND: So let me ask you this much.

15 This is contamination on individuals or was this --

16 MS. HANEY: No, it's contamination on the

17 Navy base that's south of Tokyo.

18 MS. HART: They have taken air readings

19 and --

20 MR. HOLLAND: Okay, so I'm writing this

21 down so just bear with me for a minute here.

22 MS. HANEY: I'm going to put you on mute

23 for one second.

24 MR. HOLLAND: That's fine.

25 (CONFERENCE CALL CONCLUDED)

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8 (CONFERENCE CALL INITIATED)
9 MS. HART: Okay, I'm back. This is
10 Michelle Hart. I'll give you the information that we
11 have gotten from Naval Reactors.
12 MR. HOLLAND: Right.
13 MS. HART: These measurements were taken
14 at the Yokosuka Base, and I can give you a lat and
15 longitude on that.
16 MR. HOLLAND: Yes, could you spell that
17 for me, please?
18 MS. HART: Yes, it's Y-O-K-O-S-U-K-A.
19 MR. HOLLAND: Okay.
20 MS. HART: And it's south of Tokyo more or
21 less, and the latitude and longitude are 35 degrees
22 17.1 minutes north --
23 MR. HOLLAND: Okay.
24 MS. HART: 139 degrees 40.4 degrees east.
25 MR. HOLLAND: All right. And what kind of

1 contamination levels did they see on the ground?

2 MS. HART: Okay, we have a 1.5 ten to the

3 minus eight microcuries per milliliter.

4 MR. HOLLAND: Of?

5 MS. HART: It's a mix of isotope. It

6 includes Iodines and Cesium. We are waiting for the

7 isotopic mix. That's one of the unfortunate things

8 about this analysis.

9 MR. HOLLAND: You're right. That would

10 help, but okay, so this is what they saw on an air

11 sample then?

12 MS. HART: This is on an air sample. I

13 have another value from the ship nearby. Seven, 10 to

14 the minus nine.

15 MR. HOLLAND: I didn't get that. Seven,

16 what?

17 MS. HART: Seven, ten to the minus nine.

18 MR. HOLLAND: Oh, 7.0 E to the minus 09,

19 okay.

20 MS. HART: That's correct, microcuries per

21 milliliter.

22 MR. HOLLAND: Okay, the same thing,

23 Iodine/Cesium, or they don't know yet or what?

24 MS. HART: It's the same isotopic mix

25 they're assuming, but we haven't gotten that mix, so

1 yes, it's Iodines and Cesiums.

2 MR. HOLLAND: All right.

3 MS. HART: They calculated a dose of 20

4 millirem TEDE and 120 millirem CDE thyroid. And we're

5 trying to verify those numbers, those doses.

6 MR. HOLLAND: Okay. Now was this with,

7 this is just on their isotopic analysis or they just

8 assuming this was all iodine when they did their --

9 MS. HART: They did this with their

10 isotopics, and they also applied some dispersion from

11 the plant area of some sort. Because the isotopics are

12 really taken from a different location than the ship is

13 located now.

14 It was a helicopter that they swiped --

15 MR. HOLLAND: All right.

16 MS. HART: -- that went through the plume

17 that they believe.

18 MR. HOLLAND: Okay, so what you're saying

19 is that the helicopter went through the plume and took

20 a sample and then flew back to the base?

21 MS. HART: The values that I gave you were

22 taken at the base, the isotopic mix was taken from

23 swiping the helicopter after it had flown through the

24 plume and came back to the base.

25 MR. HOLLAND: Oh, all right, now I

1 understand. Okay, so the two are somewhat, how far was
2 the helicopter away from the base or the site when it
3 went through the plume?
4 MS. HART: What they told us was it was
5 within 50 miles of the site, the reactor site.
6 MR. HOLLAND: All right. Okay, so it's
7 probably somewhat representative of what they have at
8 the base then.
9 MS. HART: We would think so. And of
10 course we're still waiting for them to send us the
11 isotopic mix but I think, you know, we've done some
12 analysis here assuming that it's all Iodine or it's
13 Iodine 131 or it's all Cesium 137.
14 So I'll let you make that decision how you
15 want to handle that.
16 MR. HOLLAND: Yes, I mean I can still make
17 the call, and they're saying this was taken over a 12-
18 hour period, is that correct, the dose that they
19 calculated?
20 MS. HART: The calculation of the dose was
21 for a dose over a 12-hour period, that's correct.
22 MR. HOLLAND: Now do they by chance have
23 any copies or could I get copies or information about
24 how they did their calculations?
25 MS. HART: They have not provided that to

1 us and so I can't get you that information.

2 MR. HOLLAND: All right, okay. I'm just

3 curious as to what they used for conversion factors,

4 dose conversion factors. I'm assuming they probably

5 used Part 20 conversion factors?

6 MS. HART: I am not sure. They did

7 mention something that they got a different, they got a

8 hundred millirem thyroid when they used ICRP 30, so the

9 120 is apparently not ICRP 30.

10 MR. HOLLAND: Yes, but the difference

11 there we're splitting hairs. It really doesn't matter.

12 MS. HART: Yes, so I'm assuming that

13 they're using the ICRP, those conversion factors.

14 MR. HOLLAND: Okay. So how soon do you

15 think it'll be until you get the actual --

16 MS. HART: The isotopic mix?

17 MR. HOLLAND: Yes.

18 MS. HART: It looks like we just got it so

19 let me see, I'll look through it real quick and let you

20 know what it says.

21 MR. HOLLAND: All right. And you wouldn't

22 know how far the base is actually from the power plant,

23 would you?

24 MS. HART: It's approximately 179 miles.

25 MR. HOLLAND: Miles, not kilometers?

1 MS. HART: Yes, we're using miles on that
2 one.
3 MR. HOLLAND: All right, so we'll round it
4 to 180 miles, how's that sound?
5 MS. HART: That sounds fabulous. Okay,
6 I'm looking at this report and they did identify, we
7 have Iodine 131, Iodine 132, Tellurium 132, Iodine 133,
8 Cesium 134 and Cesium 137.
9 MR. HOLLAND: Okay, do you have numbers
10 for those?
11 MS. HART: I can give you a weight mean
12 activity.
13 MR. HOLLAND: There should be a
14 concentration for each one of those, microcuries per ml
15 or something like that.
16 MS. HART: Let's see, maybe I'm looking at
17 the wrong sheet. I have something that says picocuries
18 per EA, I don't know what EA is. Sample quanities 1
19 EA, so it's one each.
20 MR. HOLLAND: I'm sorry, one what?
21 MS. HART: One EA, I don't know an EA is
22 but it says the same quantity as 1 EA.
23 MR. HOLLAND: Oh well, it could be just
24 one each, one sample, that type of a thing.
25 MS. HART: 500 milliliter bottle.

1 MR. HOLLAND: Okay, oh, a bottle.

2 MS. HART: Yes. Okay, so now how do they
3 get this into a bottle, because a bottle implies an air
4 sample, but air samples are typically particulates,
5 silvers (phonetic) and iodine cartridges.

6 MS. HART: Right.

7 MR. HOLLAND: A bottle implies somebody
8 went out and filled up a 500 ml Farinelli beaker or
9 something and counted it. That's a significant
10 difference.

11 MS. HART: Yes, that's what it says after
12 the title, Calibration File. So I don't know exactly
13 what that means though I can tell you what the
14 picocuries are for each of those isotopes.

15 MR. HOLLAND: The picocuries?

16 MS. HART: Yes, the picocuries for the
17 samples.

18 MR. HOLLAND: Okay, so it's picocuries for
19 how many liters was it, or milliliters?

20 MS. HART: It said 500 milliliters.

21 MR. HOLLAND: 500 milliliters, okay, so
22 the picocurie values then?

23 MS. HART: For Iodine 131?

24 MR. HOLLAND: Yes.

25 MS. HART: 2.872 at (inaudible) to the

1 plus 03.

2 MR. HOLLAND: Okay.

3 MS. HART: Iodine 132 --

4 MR. HOLLAND: Now these were picocuries

5 per liter or picocuries per 500 ml?

6 MS. HART: Per 500 ml.

7 MR. HOLLAND: Picocuries per 500 ml, all

8 right.

9 MS. HART: Okay, so that was Iodine 131.

10 This is Iodine 132, 1.477 E plus 03.

11 MR. HOLLAND: Okay.

12 MS. HART: Tellurium 132, 1.727 E to the

13 plus 03. Iodine 133, 9.920 E to the plus 02.

14 MR. HOLLAND: 02? All right.

15 MS. HART: Correct. Cesium 134, 7.571 E -

16 -

17 MR. HOLLAND: Okay, stop. Hold it, 7.571?

18 MS. HART: That's correct.

19 MR. HOLLAND: Okay, E to the --

20 MS. HART: Yes, E to the plus 01.

21 MR. HOLLAND: 01, okay.

22 MS. HART: And then Cesium 137, 1.585 E to

23 the plus 02.

24 MR. HOLLAND: 02?

25 MS. HART: That's correct.

1 MR. HOLLAND: Okay, now this was the
2 sample that was taken, this sample came from where?
3 MS. HART: This came off of the
4 helicopter, and the sample was taken at the base but it
5 had flown through the plume within 50 miles of the
6 plant.
7 MR. HOLLAND: Okay, it's interesting how
8 they -- well, how'd they get a whatever, 500 ml liter
9 bottle, okay. I'm not sure how they did that. I guess
10 that --
11 MS. HART: Maybe their calibration is, the
12 file name is not really what it is.
13 MR. HOLLAND: Yes, this sounds like,
14 because the only thing you could do here is -- I can't
15 imagine that the helicopter is airtight to the point
16 where they could do that when they get back.
17 MS. HART: Yes, they swiped down a door
18 for this one. Can I put you on mute for a moment?
19 MR. HOLLAND: Yes, you may.
20 MS. HART: Thank you.
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6 (CONFERENCE CALL INITIATED)
7 MS. HART: I'm sorry, I'm back.
8 MR. HOLLAND: That's all right.
9 MS. HART: So that is the information that
10 we have. Is there any other information that you think
11 I can give to you? I know it's all sketchy and very
12 strange.
13 MR. HOLLAND: Yes, well, and it sounds
14 like you said they took a smear of the helicopter or
15 something and came up with these many picocuries on the
16 smear, right?
17 MS. HART: That is correct. That's my
18 understanding.
19 MR. HOLLAND: I don't think there's any
20 500 ml liter, maybe 500 square centimeters or something
21 like that?
22 MS. HART: If they did a standard swipe it
23 would be a 100 cubic centimeters.
24 MR. HOLLAND: One would think it would be
25 100 square centimeters (inaudible).

1 MS. HART: Yes, not cubic, squares, excuse
2 me.
3 MR. HOLLAND: I'm sorry, what?
4 MS. HART: You're correct, a hundred
5 square centimeters is the standard.
6 MR. HOLLAND: All right, then again you
7 don't know what they did. We're guessing here anyway,
8 right?
9 MS. HART: We're guessing to a certain
10 degree, yes. This is just giving us an idea to a
11 certain degree as to the mix of these isotopics.
12 MR. HOLLAND: But again, just so I can say
13 this, we had 1.5 E to the minus eight microcuries per
14 milliliter on an air sample that was actually taken at
15 the base, right?
16 And then we had seven E to the minus nine
17 microcuries per ml taken on a boat that was nearby,
18 correct?
19 MS. HART: That's correct.
20 MR. HOLLAND: I take it it's one of the
21 Navy ships or something like that.
22 MR. HOLLAND: So the two numbers there
23 match up relatively close.
24 MS. HART: That's correct, we agree.
25 MR. HOLLAND: Those two numbers were in

1 the ballpark with each other. And so what you're
2 asking for is some confirmation on the 20 millirem TEDE
3 and the 120 millirem CDE thyroid, right?
4 MS. HART: That's correct.
5 MALE PARTICIPANT: Or there's more to it.
6 If that is a measured dose at 170 miles from the plant
7 then what would the dose be in Tokyo?
8 MR. HOLLAND: And how far is Tokyo from
9 the plant?
10 MALE PARTICIPANT: Less than, it's about
11 160 miles.
12 MR. HOLLAND: Oh, so it's a generally the
13 same distance, right?
14 MALE PARTICIPANT: Yes.
15 MR. HOLLAND: Well, okay, so here's the
16 problem with this is, if this is from a plume that's
17 being released -- and I'm assuming the wind has been
18 blowing in this general direction the whole time? Is
19 that correct?
20 MALE PARTICIPANT: Yes, assuming the worst
21 case scenario is that the -- yes, it's been blowing in
22 the same direction for a number of hours.
23 MR. HOLLAND: Right.
24 MALE PARTICIPANT: Assuming the individual
25 is standing there and inhaling this kind of a

1 concentration.

2 MR. HOLLAND: Right, and you say Tokyo's

3 approximately 160 miles in the same general direction

4 from the site, and the base is 20 miles further out, is

5 that what you said?

6 MS. HART: That's correct.

7 MR. HOLLAND: All right, hang on. I'm

8 writing stuff down.

9 MS. HART: Of course.

10 MR. HOLLAND: And yes, okay, so the only

11 issue you have with trying to do this is, is that plume

12 is going to meander all over the place, and it is very

13 difficult to try to do that type of a guesstimate to be

14 honest with you.

15 MS. HART: That's correct. We are having

16 the same issues. So if there's some additional

17 independent verification of our general findings, I

18 think is what we're looking for.

19 Whatever help you can provide.

20 MR. HOLLAND: Yes, without a direct

21 measurement it is going to be extremely difficult to

22 come up with something. I would say though with that

23 kind of a distance you would not see a huge difference

24 in the (inaudible).

25 In other words, it's not going to be like

1 it's going to jump from 20 millirem TEDE up to 2000
2 millirem TEDE in that short of a distance. It's just
3 not going to happen.
4 MS. HART: I would agree.
5 MR. HOLLAND: Yes, it's going to be
6 relatively, it might be higher but then again it might
7 also be lower just because of how the wind is moving
8 and the type of a thing.
9 MS. HART: That's correct, and based on
10 the terrain and all that.
11 MR. HOLLAND: I'm not at all familiar with
12 -- right. Yes, so many factors could get involved in
13 this. I mean we can do a quick check on the iodine
14 concentrations, and I mean from what I see 1.5 E to the
15 minus eight over 12 hours, the 20 and the 120 are
16 probably in the ballpark, but -- pardon me?
17 MS. HART: Yes, I agree.
18 MR. HOLLAND: Yes, I mean 1.5 E to the
19 minus eight though, that's a lot of airborne activity.
20 MS. HART: Yes.
21 MR. HOLLAND: Now they're sure they didn't
22 cross-contaminate the sample or anything else?
23 MS. HART: I cannot verify whether they
24 have or haven't cross-contaminated anything.
25 MR. HOLLAND: Well, that might be one of

1 the questions that you would want to ask them.

2 MS. HART: Right.

3 MR. HOLLAND: Because, you know, I mean

4 that's a lot of activity for almost 200 miles away.

5 MS. HART: Right. Well, the isotopics --

6 well, I don't know. Excuse me, we weren't talking

7 about that. Strike that.

8 MR. HOLLAND: Okay, yes, what I'm talking

9 about is the one E minus eight microcuries per ml.

10 MS. HART: Right, right.

11 MR. HOLLAND: That's a lot of activity to

12 be that far out.

13 MS. HART: Far downwind, I agree. We

14 agree.

15 MR. HOLLAND: I could see it much, much

16 lower than that, but that's why I'd really be curious

17 to see what their actual sample collection

18 (inaudible)and their calculations and stuff.

19 I don't know if I'm being a whole lot of

20 help to you here.

21 MS. HART: I understand, but any help that

22 you can provide would be appreciated.

23 MR. HOLLAND: Yes, well, I understand.

24 Well, let me sit here and ponder on this for awhile,

25 and can I call you back then?

1 MS. HART: You can, yes.

2 MR. HOLLAND: Okay, and this is Michelle

3 Hart, correct?

4 MR. HOLLAND: That's correct, and I'm in

5 the PMT.

6 MR. HOLLAND: In the PMT?

7 MS. HART: That's correct.

8 MR. HOLLAND: Okay, and the number 301-

9 816-5100 is still a good number, right?

10 MS. HART: That's correct. That'll

11 connect you to our Headquarters Operation Officer.

12 MR. HOLLAND: Okay. Well, I'll see what I

13 can do. I'll make a few phone calls, get some

14 confirmation from some people that I know and we'll get

15 back to you, okay?

16 MS. HART: Okay, thank you.

17 MR. HOLLAND: You're welcome.

18 MS. HART: All right, bye bye.

19 MR. HOLLAND: Bye.

20 (CONFERENCE CALL CONCLUDED)

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6 (CONFERENCE CALL INITIATED)
7 MR. CASTO: NRC Operations Center, Greg
8 Casto.
9 MR. TAYLOR: Say, Mr. Casto, this is Chuck
10 Taylor (phonetic) over at the USAID. We were calling
11 because they requested that, we're having trouble
12 getting in touch with, getting DOE to send a liaison
13 over here.
14 MR. CASTO: Over to USAID?
15 MR. TAYLOR: Yes, sir. And they've been
16 trying to call the DOE Operations Center and they
17 haven't gotten any results from this yet.
18 MR. CASTO: Well, let's see, I can confirm
19 the number of the NIT with you, which is 202-586-8100.
20 MR. TAYLOR: 586-8100.
21 MR. CASTO: That's correct.
22 MR. TAYLOR: That's their Ops Center
23 number, right?
24 MR. CASTO: That's correct. Well, yes,
25 that's in their NIT though.

1 MR. TAYLOR: Oh, okay. So that's the only
2 way you know that you can contact them and --
3 MR. CASTO: Well, that's who we've been in
4 communication with.
5 MR. TAYLOR: Okay.
6 MR. CASTO: As far as what you're asking
7 for, I'm not sure if they're the right contact. But
8 the NIT has been at least until, you know, recently,
9 last time we've contacted them, good to pick up the
10 phone.
11 They might be able to help you find the
12 right source to make that request.
13 MR. TAYLOR: Okay, well, we'll try that.
14 Thank you.
15 MR. CASTO: Okay.
16 MR. TAYLOR: Okay, then, bye bye.
17 MR. CASTO: Okay, bye.
18 (CONFERENCE CALL CONCLUDED)
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6 (CONFERENCE CALL INITIATED)
7 MR. BAILEY: Hello, this is Stu Bailey.
8 Can I help you?
9 MR. CASTO: Stu, this is Greg Casto at the
10 NRC Operations Center.
11 MR. BAILEY: Okay.
12 MR. CASTO: And Lou Brandon and Michelle
13 Hart. All right, we're going to (inaudible) here, Stu.
14 Your name again once more, please?
15 MR. BAILEY: Stu Bailey.
16 MR. CASTO: Bailey, thanks.
17 MR. BAILEY: Your name's Greg what?
18 MR. CASTO: Casto, C-A-S-T-O.
19 MR. BAILEY: Okay, and you're calling from
20 NRC.
21 MR. CASTO: NRC Operations.
22 MR. BAILEY: Okay, right.
23 MR. CASTO: We're sizing up the situation
24 in trying to project the impact using our RASCAL model
25 over here. And now we've got basically a Unit 2

1 assessment --

2 MR. BAILEY: Hang on a second there, Greg.

3 You probably want our NIT Ops operation.

4 MR. CASTO: Oh, I'm sorry, okay.

5 MR. BAILEY: Yes, if you'll hang on one

6 second.

7 MR. CASTO: Okay.

8 MR. BAILEY: (Inaudible), please.

9 MR. CAVANAUGH: This is Brandon from the

10 NIT.

11 MR. BRANDON: Brandon?

12 MR. CAVANAUGH: Yes.

13 MR. BRANDON: This is Lou Brandon at NRC.

14 I'm with Greg Casto and Michelle Hart.

15 MR. CAVANAUGH: Okay.

16 MR. BRANDON: Who else is working with you

17 tonight?

18 MR. CAVANAUGH: There's a number of us

19 working here down in the Nuclear Incident Team. Have

20 you been working with Matt Kiser (phonetic) previously?

21 MR. BRANDON: No.

22 MR. CAVANAUGH: Okay.

23 MR. BRANDON: All right, you guys are

24 doing assessment, right?

25 MR. CAVANAUGH: That's correct.

1 MR. BRANDON: And you're the ones who are
2 doing the advisories for the White House, is that
3 correct?
4 MR. CAVANAUGH: Yes.
5 MR. BRANDON: Okay. So what we're doing
6 here at the NRC is using our RASCAL model to size up
7 the situation as best we can, and we're looking at
8 three different impacts.
9 One of them is the Unit 2 melt-through,
10 and then we're looking at --
11 MR. CAVANAUGH: Based on assumption or
12 based on what's currently happened?
13 MR. BRANDON: We've been informed that the
14 fuel has melted through the vessel.
15 BRENNAN: So external to the containment?
16 MR. BRANDON: Yes.
17 MR. CASTO: The containment has been
18 breached.
19 MR. BRANDON: Right, we have indications
20 that containment pressure has gone atmospheric, so
21 that's the basis.
22 MR. CAVANAUGH: Okay. And when, do you
23 have an idea of when that happened?
24 MR. BRANDON: Yes, we noted the time --
25 MR. CASTO: With the explosion on Unit 2.

1 MR. CAVANAUGH: Well, because we're having
2 conflicting reports on whether the explosion from Unit
3 2 was actually from 4.
4 MR. BRANDON: Was actually what?
5 MR. CAVANAUGH: We've had some conflicting
6 reports that the Unit 2 alleged explosion was actually
7 Unit 4, so we were trying to understand that better.
8 MR. BRANDON: How far we're assessing as
9 the zirconium spent fuel pool fire, it's a very
10 situation also.
11 MR. CAVANAUGH: So Unit 4 zirconium spent
12 fuel fire?
13 MR. CASTO: That's what we understand.
14 MR. BRANDON: Yes, and we're also modeling
15 Unit 5 because there's suspicion it's going to go the
16 same path as Unit 4.
17 MR. CAVANAUGH: With the zirconium spent
18 fuel fire, right?
19 MR. BRANDON: Well, if they can't keep the
20 fuel covered in Unit 4, then they may be in that same
21 situation where they, I don't have any details but
22 they're just afraid here at the NRC.
23 MR. CASTO: We have nothing to confirm
24 that so we don't want to expand on that.
25 MR. CAVANAUGH: Okay.

1 MR. CASTO: Right now we're looking at
2 Unit 1, 2, 3 and 4 with the dose concern issues on Unit
3 2 because of fuel melt and loss of containment, and
4 Unit 4 with the spent fuel pool zirconium fire.
5 MR. CAVANAUGH: Roger. With the Unit 2
6 fuel melt and loss of containment, do you have a
7 percentage or understanding of how significant the loss
8 of containment is?
9 MR. BRANDON: The dose projections that
10 we've run just now would have PAGS exceeded out at 50
11 miles.
12 MR. CAVANAUGH: PAGS exceeded over 50
13 miles?
14 MR. BRANDON: Yes.
15 MR. CAVANAUGH: Okay.
16 MR. BRANDON: Basically the numbers are
17 eight rem steady and 23 rems to the thyroid at 50
18 miles.
19 MR. CAVANAUGH: Okay, so 50 rems to the
20 thyroid?
21 MR. BRANDON: 23 rems to the thyroid, so
22 and then for fuel, the zirconium fire, this is more
23 approximate.
24 MR. CASTO: And this is considering the
25 wind shift, right?

1 MR. BRANDON: Yes, this is the model with
2 the current met and forecast.
3 MR. CASTO: Oh, okay, so we do have a wind
4 shift in there.
5 MR. BRANDON: Yes.
6 (Crosstalk)
7 MR. CASTO: Understand.
8 (Crosstalk)
9 MR. CAVANAUGH: Okay, so on Unit 2, do you
10 have an understanding of what time the loss of
11 containment occurred? We're trying to figure that out.
12 MR. BRANDON: Okay, hold on one second.
13 (CONFERENCE CALL CONCLUDED)
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(CONFERENCE CALL INITIATED)

MR. CASTO: We're looking for a time, however, on the report that I just received it was coincident with the explosion on Unit 2.

MR. CAVANAUGH: Okay.

MR. CASTO: Is what time we're using.

MR. CAVANAUGH: Then do you have an idea of what the time was for Unit 4 for the spent fuel fire, when that started?

MR. CASTO: Let me get back to the -- we'll get that information back to you.

MR. CAVANAUGH: Okay, how do we contact you?

MR. CASTO: Our phone number is, and you guys should have this, but it's 301-816-5419 or -- or if you want to repeat that back, I'm sorry.

MR. CAVANAUGH: Okay, 301-816-5419.

MR. CASTO: That's correct, or you can call us through our Operations Officer, which is 301-816-5100.

MR. CAVANAUGH: Okay, and your name again,

1 sir?

2 MR. CASTO: Greg Casto.

3 MR. CAVANAUGH: Greg?

4 MR. CASTO: Yes, correct, C-A-S-T-O, and

5 I'll be here overnight.

6 MR. CAVANAUGH: Okay. And now is there

7 something specifically you want from us or are you just

8 providing this source information?

9 MR. BRANDON: What our assignment is, is

10 we're sizing this up as we see it and we're sending

11 this to the ambassador, U.S. ambassador to Japan.

12 MR. CAVANAUGH: Okay.

13 MR. BRANDON: And we're getting guidance

14 from our leadership that you guys are sizing up a

15 different way that concerns the (b)(5)

16 (b)(5)

17

18 MR. CAVANAUGH: Understood. So yes, we're

19 looking from a consequence management side from trying

20 to get some plots out to understand what the distance

21 from the plots are going to be.

22 What I can do is, we're actually on a call

23 with our administrator right now so our CM guy is

24 currently tied up.

25 But I'd like to get him on the phone with

1 you guys so he can understand those numbers better that
2 you're giving us, and then we can pass those off to our
3 home team which will work on the next modeling that we
4 do.
5 MR. BRANDON: Okay, can we put these
6 online for NARAC, or maybe they already are, I don't --
7 our standard procedure is to send these when they're
8 complete and they characterize the situation, to send
9 it to NARAC and then from NARAC --
10 MR. CAVANAUGH: Yes, I mean if you could
11 send this stuff off, and if you have a report that you
12 could send off in an email.
13 MR. BRANDON: Well, yes, we send all this
14 stuff to NARAC but we can copy you with a --
15 MR. CAVANAUGH: Sure, that would be
16 excellent. The email address for that would be the NIT
17 Ops email address. That's --
18 MR. BRANDON: I think we have that.
19 MR. CAVANAUGH: -- nit --
20 MR. BRANDON: Nitops at -- nitops, dot?
21 MR. CAVANAUGH: No, it's nitops, N-I-T-O-
22 P-S, at nnsa.doe.gov.
23 MR. BRANDON: Okay. Got it. Yes, we've
24 been using that one.
25 MR. CAVANAUGH: So it's N-I-T-O-P-S at

1 nnsa.doe.gov.

2 MR. BRANDON: Okay, got it.

3 MR. CAVANAUGH: Okay, and I'll try to get

4 our (inaudible) scientist, Matt Kiser, to give you guys

5 a call back.

6 MR. BRANDON: Okay. What's your last

7 name, Brennan?

8 MR. CAVANAUGH: My name is Cavanaugh,

9 Brandon Cavanaugh, C-A-V-A-N-A-U-G-H. I'll be here all

10 night as well.

11 MR. BRANDON: Okay. And I'm going to go

12 track down the times that we're using for both of those

13 two events. Do you want me to call you right back on

14 that?

15 MR. CAVANAUGH: You can either call me or

16 you can send it off in an email to NIT Ops, just

17 attention me.

18 MR. BRANDON: Okay. Brandon was your

19 first name?

20 MR. CAVANAUGH: Yes, Brandon, B-R-A-N-D-O-

21 N.

22 MR. BRANDON: That's my last name, I'll

23 remember that. Okay, we'll do that.

24 MR. CAVANAUGH: All right, thank you.

25 MR. BRANDON: Okay. All right, talk to

1 you soon.

2 MR. CAVANAUGH: All right, bye.

3 (CONFERENCE CALL CONCLUDED)

4 0%C-9^4_15365094

5 (CONFERENCE CALL INITIATED)

6 MS. HART: NRC Headquarters, this is the

7 PMT.

8 MR. HOLLAND: This is Paul Holland from

9 Exelon. Is Michelle Hart there, please?

10 MS. HART: This is she.

11 MR. HOLLAND: I'm sorry?

12 MS. HART: This is she.

13 MR. HOLLAND: Hi, Michelle.

14 MS. HART: Hi.

15 MR. HOLLAND: So we did some calculations

16 with the information that you gave me.

17 MS. HART: Yes.

18 MR. HOLLAND: And with the 1.5 E to the

19 minus eight microcurie per ml Iodine/Cesium air sample.

20 MS. HART: Okay.

21 MR. HOLLAND: Based on using federal

22 guidance report number 11 standard man breathing rates

23 and that type of a thing we came up with, you ready?

24 MS. HART: Yes.

25 MR. HOLLAND: A TEDE value of seven

1 millirem and a thyroid value of 233 millirem.

2 MS. HART: Millirem. Can you send us your

3 calculations?

4 MR. HOLLAND: I can try. All it is is a

5 simple dirty little spreadsheet.

6 MS. HART: Okay.

7 MR. HOLLAND: I can certainly give that a

8 shot. Hang on one second here.

9 Is Lou Brandon in tonight?

10 MR. BRANDON: Hey, Paul, I just asked who

11 was on the line.

12 (Crosstalk)

13 MR. HOLLAND: There you go. Lou, how come

14 you're not doing these?

15 MR. BRANDON: Well, we are. I guess we're

16 pulling in all the experts from all the resources here,

17 so welcome aboard.

18 MR. HOLLAND: And I was at the bottom of

19 your list I see, right?

20 MR. BRANDON: I'm not sure this thing's

21 over yet.

22 MR. HOLLAND: Oh, well, I don't doubt

23 that. Hang on just one second. Let me title this

24 thing. So the name of this site is Y-O-K-O-S-U-A-A,

25 Alpha, Alpha, right?

1 MS. HART: K-A.

2 MR. HOLLAND: I'm sorry, what was it?

3 MS. HART: Kilo, Alpha at the end.

4 MR. HOLLAND: Oh, Kilo, Alpha, okay, that
5 makes more sense. This is an air base, right?

6 MS. HART: It's a Naval base.

7 MR. HOLLAND: A Naval base. Oh, we've got
8 to get that right, they'll come after me.

9 MS. HART: Just a base.

10 MR. HOLLAND: All right, so I just need an
11 -- hold on, let me log on to my email. I've been
12 having trouble with the email system all night.

13 MS. HART: Okay.

14 MR. HOLLAND: So we'll give it a shot
15 here. Hey, Lou?

16 MS. HART: Lou is tied up right at the
17 moment.

18 MR. HOLLAND: Well, untie -- no, that's
19 okay. I found the numbers to be, I mean they're
20 matching up pretty well.

21 As far as I'm concerned we're right in the
22 ballpark with you guys, but a little, I'm just
23 surprised that 200 miles away you're seeing these kind
24 of concentrations.

25 MS. HART: We were a little surprised as

1 well.

2 MR. HOLLAND: Yes, are they taking more

3 air samples, I mean that type of stuff or what?

4 MS. HART: I think the Naval Reactors

5 folks are going to keep track of what's happening on

6 their ship and so yes, they're going to provide

7 additional information. When we talk to them they'll

8 provide it to us.

9 MR. HOLLAND: Gee, I hope so. So it's

10 Yokosuka, huh?

11 MS. HART: That is correct. It's my

12 understanding.

13 MR. HOLLAND: Just got a flash file

14 (phonetic). Okay, I need an email address.

15 MR. HOLLAND: Okay, did you need to talk

16 to Lou?

17 MR. HOLLAND: Oh, no, no, I was just going

18 to kid him about some stuff. He and I used to work

19 together back in Michigan, so I've known him for quite

20 a few --

21 MS. HART: I thought perhaps you knew each

22 other.

23 MR. BRANDON: Are you working through the

24 night, Paul, are you are wrapping up?

25 MR. HOLLAND: Well, I'm working until you

1 tell me I can go to bed.

2 MS. HART: Okay.

3 MR. HOLLAND: Or my phone dies, whichever

4 comes first.

5 MR. BRANDON: You're at home right now?

6 MR. HOLLAND: Okay, I need an email

7 address.

8 MS. HART: It's pmt09 --

9 MR. HOLLAND: I'm not catching it all.

10 I'm hearing background noise.

11 MS. HART: I'm sorry. It's pmt --

12 MR. HOLLAND: Could you do it with Papa,

13 Mike, Papa? Is that what you're saying?

14 MS. HART: Papa, Mike, Tango.

15 MR. HOLLAND: Tango?

16 MS. HART: Yes, I can't remember the

17 thing, it's P-M-T, yes, Protective Measures Team.

18 MR. HOLLAND: P-M-T at, or what is it?

19 MS. HART: It's pmt09 --

20 MR. HOLLAND: Zero 9.

21 MS. HART: Dot --

22 MR. HOLLAND: That's a period?

23 MS. HART: Yes, H-O-C, Hotel, October,

24 Cat. I don't know, I've lost it.

25 MR. HOLLAND: No, that's all right, Cat,

1 all right.

2 MS. HART: At nrc.gov.

3 MR. HOLLAND: Okay, so here's what, I have

4 Papa -- you ready?

5 MS. HART: Yes.

6 MR. HOLLAND: Okay, Papa, Mike, Tango,

7 zero 9, at Hotel, October, Charlie, at nrc.gov.

8 MS. HART: There's a dot between pmt09 and

9 hoc.

10 MR. HOLLAND: Yes, I got that,

11 pmt09.hoc@nrc.gov.

12 MS. HART: That's correct.

13 MR. HOLLAND: Okay, I'm going to send this

14 real quick. There is no --

15 MS. HART: There's no what? I'm sorry.

16 MR. HOLLAND: It'll just come in at

17 calculations from Exelon.

18 MS. HART: Yes, okay.

19 MR. HOLLAND: I want to make sure you get

20 that before we get off the phone here, okay?

21 MS. HART: Okay.

22 MR. HOLLAND: Hang on.

23 MS. HART: I do have an email from you.

24 MR. HOLLAND: Okay, open it up. Make sure

25 that you can actually open the spreadsheet because I

1 have Office 2008, and if not I will try to resave the
2 spreadsheet as something else.
3 MS. HART: I have a spreadsheet. So you
4 sent a spreadsheet, is that what's included.
5 MR. HOLLAND: Yes, there's a spreadsheet
6 on there. You can take it off and then try opening it
7 and make sure you can open it.
8 MS. HART: Yes, I've been able to open it.
9 MR. HOLLAND: Okay, and on there you
10 should see the two calculations.
11 MS. HART: I do, I see a TEDE and a
12 Thyroid.
13 MR. HOLLAND: Okay, so real quick, as you
14 can see there's the sample results, the standard man
15 breathing rates, the two federal guidance report
16 conversion numbers are there.
17 The TEDE is the 3.290 minus two and the
18 1.8 E plus six for the other.
19 MS. HART: Right.
20 MR. HOLLAND: Now mind you, there is a
21 difference in how they're calculated. If you go down,
22 one of them is divided by a million, the Thyroid is,
23 but the whole body is already corrected for that. You
24 don't need to do that.
25 MS. HART: Okay, okay, good. All right,

1 well, thank you very much for your help.

2 MR. HOLLAND: You know what? I made a

3 mistake too, that's not rem per microcurie, I believe

4 that's rem per curie. Hang on one second, would you?

5 MS. HART: Sure.

6 MR. HOLLAND: No, it is 1.08 rem per

7 microcurie. That is the right value for Thyroid.

8 MS. HART: That is the correct unit?

9 Okay.

10 MR. HOLLAND: Yes. But again it's

11 corrected as you go in. Myself and another gentleman

12 validated these numbers.

13 MS. HART: Okay, good.

14 MR. HOLLAND: Okay, so now if you've got

15 any questions, do you guys want my cell phone number?

16 MS. HART: You can give it to us.

17 MR. HOLLAND: But I'm going to go to bed.

18 I'd appreciate, unless it's yes, an emergency. But if

19 you have any questions feel free to call me.

20 MS. HART: Okay.

21 MR. HOLLAND: My cell phone number is (b)(6)

22 (b)(6)

23 MS. HART: (b)(6)

24 MR. HOLLAND: Yes, and please, no crank

25 calls at 2:00 in the morning, okay?

1 MS. HART: Well, I can't promise what
2 Lou's going to do, but I'll try not to give you a call
3 like that.
4 MR. HOLLAND: All right. Well, keep him
5 away from the coffee and he'll be okay, all right?
6 MS. HART: Well, he's in charge of making
7 it so --
8 MR. HOLLAND: Okay, well, I've seen Lou
9 hyped up, I know what he's like so try to keep him
10 calmed down.
11 MS. HART: All right. We'll do our best.
12 MR. HOLLAND: All right. Well, say hey to
13 everybody for me and I appreciate the opportunity to
14 help you out.
15 MS. HART: Well, thank you very much,
16 Paul. I'm sure we'll talk again later, some other
17 time.
18 MR. HOLLAND: All right, thanks.
19 MS. HART: Yes, bye.
20 MR. HOLLAND: Bye.
21 (CONFERENCE CALL CONCLUDED)
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(CONFERENCE CALL INITIATED)

MR. NOZER: Naval Reactors, ECC, may I help you?

MS. MILLIGAN: Yes, hi, Trish Milligan, Nuclear Regulatory Commission. With whom am I speaking?

MR. NOZER: This is Chris Nozer (phonetic).

MS. MILLIGAN: Hi, Chris. We have a request and maybe you can (inaudible) some information and maybe you might be able to help us out. You have

(b)(5)

(inaudible).

MR. NOZER: I'm sorry, I'm having trouble just hearing you there. Are you asking whether there's

(b)(5)

MS. MILLIGAN: For your Navy folks in Japan, (b)(5)

(b)(5)

MR. NOZER: Let me get back to you on that

in just a minute. Can I get your number? Your name is Chris Milligan?

MS. MILLIGAN: No, Trish Milligan, T-R-I-S-H.

MR. NOZER: Trish Milligan, okay.

MS. MILLIGAN: You can call 301-816-5419.

(b)(5)

(b)(5)

MR. NOZER: How many?

MS. MILLIGAN: (b)(5)

(b)(5)

MR. NOZER: And where are they located.

MS. MILLIGAN: The American embassy in Tokyo is where we get it to.

MR. NOZER: Okay, let me get back to you here shortly, okay?

MS. MILLIGAN: Thank you.

MR. NOZER: Thanks.

MS. MILLIGAN: Good bye.

(CONFERENCE CALL CONCLUDED)

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2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI AUDIO FILE

5 PROTECTIVE MEASURES TEAM

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(CONFERENCE CALL INITIATED.)

FEMALE PARTICIPANT: Okay everybody, let's get started and hopefully Lee will call in. Does anybody have anything new that they -- NARAC, do you have anything that you want to update us on?

MALE PARTICIPANT: Not at this time.

FEMALE PARTICIPANT: Okay. Sarah, Vahn (phonetic) how about you guys?

VAHN: We don't have anything for you.

FEMALE PARTICIPANT: Okay. And NRC, John, Catherine?

MR. LUBINSKI: Yes, we have no updates of information.

FEMALE PARTICIPANT: Okay. No, that's good. I was hoping that Lee would get on the line from Naval Reactors. I was hoping that he had something. If you guys want to just hang on a couple of minutes I can try calling him direct and see if he's going to come onto the bridge line.

MR. LUBINSKI: Yes, while you're doing that, that would be great, but I guess let me ask a question. We don't have information to report but we're getting reports here about the most recent fire at Unit 4. And that there's a report coming in about a

1 dose-rate of 30-R per hour. It apparently came from
2 Japan?
3 FEMALE PARTICIPANT: Okay. And who is
4 this talking?
5 MR. LIBINSKI: This is John Libinski at
6 the NRC. We're trying to get an idea of where ths
7 information came from and its location and how accurate
8 it is.
9 FEMALE PARTICIPANT: Okay. I'm going to
10 put you guys on mute really quick and I'm going to try
11 calling the Naval Reactors and see if I can get a
12 representative online and maybe someone from the NIT.
13 So hold on just one second, okay?
14 MR. LIBINSKI: Great, thanks.
15 (CONFERENCE CALL ENDED.)
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(CONFERENCE CALL INITIATED.)

FEMALE PARTICIPANT: Hi guys, just a quick update, I just called the NIT and they're in the middle of turnover. But they're going to put someone on the line here real quickly. If you guys just hang tight. And I'm in the process of getting a hold of the Naval Reactor, so just hold on.

MR. LIBINSKI: Thank you.

FEMALE PARTICIPANT: You're welcome.

(CONFERENCE CALL ENDED.)

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3 (CONFERENCE CALL INITIATED.)

4 MR. MANSFIELD: Yes, this is Gary

5 Mansfield at NARAC. On that George Washington air

6 filter number, presumably that's beta gamma?

7 MALE PARTICIPANT: That's correct, that's

8 beta gamma.

9 MR. MANSFIELD: Thank you.

10 MALE PARTICIPANT: And you made a

11 statement that you didn't think I could provide you the

12 location, I don't think it's a secret that George is --

13 MR. MANSFIELD: Yes, that's where it is.

14 MALE PARTICIPANT: The George Washington

15 in the Yokusuka harbor.

16 MALE PARTICIPANT: I'm sorry, could you

17 repeat that?

18 MALE PARTICIPANT: It's in Yokosuka.

19 MR. MANSFIELD: Yokosuka Harbor.

20 MALE PARTICIPANT: It's in it's former

21 deployed location.

22 MALE PARTICIPANT: Yokosuka Harbor. And

23 the time of the sample?

24 MALE PARTICIPANT: I don't have the time

25 in front of me that it was actually taken (inaudible).

1 MALE PARTICIPANT: But you said it was
2 sometime today?
3 MALE PARTICIPANT: Yes, for approximately
4 the last two hours we've been seeing elevated airborne
5 levels. Between approximately, one, 700. Up to and
6 including now. We're seeing a decreasing level now.
7 But that sample was taken, the highest we saw, was
8 around 1/700, 1/8.
9 MALE PARTICIPANT: Okay. And --
10 MS. REED: Is that zulo or?
11 MALE PARTICIPANT: No that's our time
12 here.
13 MS. REED: Okay.
14 MALE PARTICIPANT: Our time here being in
15 the U.S?
16 MALE PARTICIPANT: Thank you.
17 MS. REED: Is that Eastern?
18 MALE PARTICIPANT: Eastern Daylight
19 Savings Time now.
20 MS. REED: Thank you.
21 MALE PARTICIPANT: And do you guys happen
22 to know, or suspect a reason for that spike?
23 MALE PARTICIPANT: We're not certain. We
24 had attributed the previous spikes to the pressure
25 release activities going on with the plant.

1 MALE PARTICIPANT: Got it. See I just
2 didn't know if there was something else going on in the
3 area of the George Washington they may have been aware
4 of. Okay. And I appreciate that information. The
5 other question is we understand there's some RAP Teams
6 on the ground.
7 And the last communication I think we had
8 on that was that they had gotten in and were trying to
9 get some sleep and were going to be starting to take
10 readings and flyovers and just wanted to get an
11 estimated time when we might see some data from that.
12 MS. REED: Okay, so just for
13 clarification. What we have on the ground is
14 contingent on a the measuring system personnel and
15 conflict management response teams. Not actually a RAP
16 team, just for clarification.
17 MALE PARTICIPANT: Thank you.
18 MS. REED: We have a full Phase 1 CMRT
19 (phonetic) and an AMS contingent both there. They have
20 arrived, they have separated into two shifts. The
21 first shift is on and they are expecting to send
22 approximately one team of two people to monitor at the
23 Embassies. The rest of the personnel are gearing up.
24 It's their impression that AMS is going
25 the highest priority for what they're doing out there,

1 so they are preparing to be able to outfit a military
2 aircraft today.
3 MALE PARTICIPANT: I'm sorry. You said
4 what was the highest priority?
5 MS. REED: It's aerial.
6 MALE PARTICIPANT: Aerial, thank you. And
7 they expect to man that today?
8 MS. REED: They do, and just so you know
9 who I am, this is Alexis Reed from the Consequence
10 Management Home Team, here at ARCO Nellis. We are
11 right now just kind of getting impressions from our
12 field teams. These are not by any means official
13 statements. But they do have the impression that
14 aerial measuring is the top priority.
15 They are expecting to get an aircraft
16 outfit today, at least one. So they are gearing up to
17 be ready to do that by noon, their time.
18 MALE PARTICIPANT: Okay. That's probably
19 another four hours from now.
20 MS. REED: Correct.
21 MALE PARTICIPANT: Okay. And I guess you
22 said they're monitoring at the Embassies, right? So
23 are they going to be monitoring anywhere off of U.S.
24 ground? Is there anything they need to coordinate with
25 the Japanese government? Is the Japanese government

1 good to let them go off into other areas or, (b)(5)

2 (b)(5)

3 MS. REED: That's still undetermined. We

4 do have a POC on the ground who is working out those

5 details. As of right now they're just preparing to

6 send a team. They're not actively monitoring at an

7 Embassy, they're not actively monitoring anywhere yet.

8 But they do expect to send one team to the Embassy.

9 We haven't heard any word from them that

10 they're getting any monitoring instructions off of U.S.

11 grounds. So we're not even sure when they do outfit

12 and aircraft, you know, kind of what the (inaudible)

13 area's going to be.

14 JOHANNA: Actually the (inaudible) on a

15 bridge line in the other room, developing their plan

16 for the day right now.

17 MALE PARTICIPANT: Okay. I appreciate --

18 I'm sorry.

19 MS. REED: Johanna (phonetic), is what I

20 said consistent with what you guys are hearing on the

21 other bridge line?

22 JOHANNA: Absolutely. So for the time

23 being at least, they're going to be monitoring, or plan

24 to monitor U.S. installations until they're redirected.

25 MS. REED: Copy that.

1 MALE PARTICIPANT: Okay. And I guess a
2 question. (b)(5)
3 (b)(5)
4 MS. REED: I would expect so. Go ahead,
5 Johanna.
6 JOHANNA: That does not carry the same
7 uncertainty as monitoring off of -- So basically we've
8 been given permission to monitor U.S. sites and to fly.
9 MALE PARTICIPANT: And to fly. So we have
10 permission in that. Okay. Thank you. And we were
11 looking at more just we didn't want to keep bugging you
12 with questions about this. So we wanted to get an idea
13 of when we might see stuff. So what I'm hearing is
14 we've got at least four hours before we're looking at
15 any data coming out.
16 MS. REED: Well, we don't know that yet.
17 I mean that's all still an approximation, that was the
18 target start time for aerial measuring for our group.
19 As far as Embassy measurements we don't know at this
20 point yet.
21 MALE PARTICIPANT: Okay. Well just
22 instead say that once you guys start getting some data
23 you'll share it with us.
24 JOHANNA: Correct.
25 MALE PARTICIPANT: Okay.

1 MALE PARTICIPANT: How do you plan on
2 sharing the data?
3 MS. REED: Johanna, do you want to speak
4 to what the data sharing protocol is looking like right
5 now?
6 JOHANNA: The data sharing protocol, when
7 the AMS data comes in it'll be fed immediately back to
8 NARAC so that they can refine their model. And, you
9 know, that will then come back to the NIT. The NIT is
10 distributing data products.
11 And once AMS data is there and CM Home
12 Team has created the AMS data products it is up to the
13 NIT to distribute that to the distribution list, which
14 you should all be on. Right?
15 MALE PARTICIPANT: Is there someone from
16 the NIT online that I can make sure that Naval
17 Reactor's on the list for?
18 JOHANNA: Yes, I'm here and I will double-
19 check, I'm almost certain you are. Do you have a
20 direct phone number to Protective Measures office,
21 rather than the watch office, their line is constantly
22 busy?
23 MALE PARTICIPANT: For Naval Reactors?
24 JOHANNA: No, for NRC Protective Measures.
25 MALE PARTICIPANT: For NRC Protective

1 Measures. Yes, the direct line is 301-816-5419.

2 JOHANNA: 301-816-5419?

3 MALE PARTICIPANT: Yes.

4 JOHANNA: Don't ever be sorry about

5 calling the NIT, I think noone will be --

6 MS. REED: Wait, Johanna, could you share

7 the NIT number with everybody?

8 MALE PARTICIPANT: (Inaudible) 8100.

9 MALE PARTICIPANT: Thanks, Johanna, we

10 won't be shy.

11 JOHANNA: Hey, Lee, if you're out there,

12 can we get the number for you directly to Naval

13 Reactors?

14 LEE: Yes, my direct number is (b)(6)

15 (b)(6)

16 JOHANNA: Okay. And NARAC can you give us

17 a direct line too?

18 MALE PARTICIPANT: Yes, it's 925-422-9100.

19 JOHANNA: Okay. And is there anybody else

20 other than NARAC, (inaudible), NRC, Naval Reactors and

21 NIT? Is anybody else on the bridge line? Okay. Is

22 there anything else new that anybody wants to share,

23 add?

24 MALE PARTICIPANT: Do you guys have any

25 information on this latest fire that's broken out?

1 MR. LIBINSKI: This is John Libinksi, the
2 only information we have the NRC, and we're trying to
3 confirm this report is that, and I'm just reading from
4 an update we have, "Fuel rods have been exposed and
5 generated hydrogen in Unit 4.
6 Some of roof is damaged so helicopters
7 could be used to inject water, or by fire engines. Not
8 decided yet for sure because of difficulties. 30R per
9 hour in area, so difficult for personnel to fight fire
10 in the area."
11 And that came to us five minutes before we
12 got on the phone, so we're still trying to track it
13 down. And it says this was from TEPCO. But I'm not
14 sure how we got it from TEPCO.
15 MALE PARTICIPANT: Well I never get you
16 this did I?
17 (CONFERENCE CALL ENDED.)
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24 0%C{43M615365094
25 (CONFERENCE CALL INITIATED.)

1 JOHANNA: Hi, this Johanna at the MIT.

2 ELIZABETH: Hi, Johanna, this is Elizabeth
3 at CM Home Team and we have NARAC, NRC, (inaudible) on
4 the line. And NRC, John, had a question. I had a
5 quick question too. Do you have another number for the
6 Naval Reactors?

7 JOHANNA: Oh, I was going to ask that
8 myself, yes.

9 ELIZABETH: You know what I'm going to
10 look for it. I think I have it, I just was wondering
11 if you had it right with you. Go ahead NRC and ask
12 your question. John?

13 MR. LUBINSKI: Yes, I'm sorry. I had my
14 phone on mute there. I'm sorry we're getting a report
15 that says that TEPCO is reporting about a fire at their
16 Unit 4. And that they're having difficulty getting
17 firefighting personnel into the area because they have
18 a 30R per hour dose rate in the area. And I'm trying
19 to see if anybody else has additional information on
20 this or not.

21 JOHANNA: All the information I have here
22 at the NIT is what we're watching on CNN.

23 MR. LUBINSKI: Okay. So you guys just
24 have the CNN. Yes, I'm looking at a report I got in
25 here from TEPCO, literally as I was dialing the phone

1 number is when it came up, and so it's the latest and
2 greatest we have. So, okay, we will try to track down
3 the source and provide that, if we get that
4 information, provide it to you guys.
5 And I guess another information request at
6 this time. We understand there's maybe two sources of
7 information we can get from the Navy. One is from the
8 George Washington. We haven't gotten any updated
9 reports on RAD monitoring, is there any new information
10 that you guys have, that could share with us?
11 MR. SMITH: This is Lee Smith, just signed
12 on on the bridge. You're asking for? Sorry, I only
13 caught part of what you said.
14 MR. LUBINSKI: Oh, we understand that
15 George Washington has been doing monitoring and may
16 have some dose read information. And when we did our
17 shift turnover here we were told that we would get some
18 updated information periodically.
19 And wanted to see if there was any updated
20 information from the George Washington and if not do
21 you have a time when you would expect maybe to get some
22 updated information you could share with us?
23 MR. SMITH: I have some updated
24 information I can share right now. For approximately
25 the last hour we're seeing a similar spike in airborne

levels to what we saw yesterday. The highest that we've seen today is 6.5 X 10^{-9} microcuries per milliliter.

MS. REED: Can you repeat that?

FEMALE PARTICIPANT: Can you repeat that, Lee, just slow down just a little bit.

MR. SMITH: 6.5 X 10^{-9} microcuries per milliliter.

FEMALE PARTICIPANT: And where's that from?

MR. SMITH: That's taken on the George Washington.

FEMALE PARTICIPANT: Okay, thank you.

MR. LUBINSKI: And I understand that you cannot give us the location of that over the phone. Is there someway to fax that to us via secure line?

I'm sorry, Lee, somebody buzzed in and I don't know if you heard me. That's from the George Washington, is there a way that you could fax in the information on the location of the George Washington to us?

MR. SMITH: Can you hold on just a second, I might be able to provide it directly.

MR. LUBINSKI: Sure, thank you.

(CONFERENCE CALL ENDED.)

1 0%C{LPN_15365094 (No words to transcribe.)

23 0%C{LYML15365094

24 (CONFERENCE CALL INITIATED.)

25 MR. LUBINSKI: I guess the only other

1 question we have is when the next call would be.

2 FEMALE PARTICIPANT: The next call will be

3 2200 Pacific Daylight time, and that's it. We'll see

4 you guys at 2200.

5 MR. LUBINSKI: Thanks appreciate you guys

6 setting up the call. Same number, correct?

7 FEMALE PARTICIPANT: Same number.

8 (CONFERENCE CALL ENDED.)

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25 (CONFERENCE CALL INITIATED.)

1 MR. CASTO: Charlie? This is Greg Casto
2 in the NRC OPS Center. I was told I could give you a
3 call and pick your brain regarding some of these
4 things. I didn't wake you up did I?
5 CHARLIE: No.
6 MR. CASTO: Randy Sullivan's on his way
7 back down, he was going to get NUREG-1728 I believe and
8 come back up. What we're discussing is the credibility
9 of zirconium fire in the spent fuel pool. And just
10 wanted to get some expert opinion on how credible that
11 is based on, you know, how long new spent fuel has been
12 in the pool.
13 CHARLIE: Yes, I talked to Bill Ruland
14 about an hour ago.
15 MR. CASTO: Okay. And unfortunately Bill
16 has left. I'm sorry.
17 CHARLIE: I understand. I'll just tell
18 you what I was told. I was told that Unit 4 may have
19 had or were reporting something about a zirc fire.
20 MR. CASTO: Right.
21 CHARLIE: All right today I was looking
22 at some calculations we did for Peach Bottom. Most
23 recent, best calculations, the most realistic
24 calculations.
25 And, now I'm assuming that Unit 4 had a

1 full-core offload. There's recent core, I was told by
2 Bill, who checked with (b)(4),(b)(5)
3 (b)(4),(b)(5)
4 MR. CASTO: Okay, yes I think we got 105.
5 CHARLIE: Yes, 105. Okay, so I didn't
6 have a calculation for exactly 105, I got a calculation
7 at 90 days. Okay. Now it might have been only a third
8 of a core offload, because Peach Bottom's, you know, we
9 were doing it for a normal a normal not for extended
10 shutdown.
11 Because normally a BWR offload is a third
12 of a core.
13 MR. CASTO: Got it.
14 CHARLIE: But adjusting for a full core it
15 looks like they would have started boiling in about a
16 day. And it looks like they would boil off a little
17 less than two meters a day. So if I kind of take that
18 curve and I put that slope, it would look to me,
19 because I think it's been about four days since the
20 start of this event.
21 MR. CASTO: Right, yes.
22 CHARLIE: So I look at 96 hours I'm
23 looking at this thing. So it looks to me like we'd be
24 at about six meters above the bottom of the core. Now
25 six meters would have the fuel covered. Because, you

1 know, the 12 foot fuel. So it looks to me like
2 normally I would expect that fuel to still be covered.
3 But I had heard reports earlier, and Bill
4 suggested this as well, that the seismic event may have
5 sloshed that water out of that pool. Now I don't know
6 much about, this pool's probably about 35 feet by
7 (inaudible). Whether or not they could slosh two or
8 three meters of water out of the pool.
9 MR. CASTO: Right.
10 CHARLIE: And then if they had a seismic
11 event and the liner cracked, the liner to the pool
12 cracked, and leaked a little bit. And then he said,
13 well what should they do if they have a zirc fire? I
14 said, well the most effective way to cool if you're
15 having a zirc fire is to spray from the top.
16 MR. CASTO: Right.
17 CHARLIE: But if you can't do that because
18 the doses are too high then your only choice is to add
19 as much water as you can by makeup. And that's where
20 it was left. I went back and checked a couple times
21 over. It looked to me like normally you wouldn't
22 expect the water level to be that low.
23 He said something about a radiation level,
24 4-R per hour. Okay, but he didn't know where that
25 measurement was at.

1 MR. SULLIVAN: Charlie, (inaudible) here.

2 CHARLIE: Right, so at the 4-R per hour,

3 if that's actually in the reactor building?

4 MR. SULLIVAN: No, Charlie, slow down.

5 I'm looking at a report we got of 10-R per hour at the

6 site boundary of Unit 4. That's where the spent fuel

7 pool may be in trouble.

8 CHARLIE: Okay. At site boundary.

9 MR. SULLIVAN: Yes, that's site boundary.

10 And further we don't know the condition of that spent

11 fuel pool. We don't know --

12 CHARLIE: I agree. But like I said, if

13 the liner cracked or they sloshed water, I had heard

14 once upon a time, anecdotally, that they had evidence

15 that water sloshed out of one of their spent fuel

16 pools.

17 MR. SULLIVAN: Well, sure.

18 CHARLIE: Like I said, without somebody --

19 If somebody never bothered to either check the water

20 level in the pool or if they didn't have instruments

21 they could take, you know, where they didn't actually

22 have a water level measurement.

23 You know somebody's got to take a look at

24 it. I understand they may have another unit that shut

25 down that may have had a more recent offload.

1 MR. CASTO: Yes, that's true.

2 CHARLIE: Well if that's the case they

3 should be looking at that one immediately.

4 MR. SULLIVAN: Yes, I've tried to pass

5 that on to our management that really I'm more worried

6 about the spent fuel pools, and they're easier to

7 mitigate, than this Unit 2 problem.

8 CHARLIE: They're much easier to mitigate,

9 but they're hard to mitigate once you let that zirc

10 fire start.

11 MR. SULLIVAN: Yes, I bet.

12 CHARLIE: And there's four times as much

13 cesium in that pool as there is in that reactor.

14 MR. SULLIVAN: Right, I've got NUREG-1738

15 in front of me here.

16 CHARLIE: Yes, but look, I know there's

17 boil-off times in there, Randy. And they're, I don't

18 want to say they're bad, but like I said -- go ahead.

19 You want to quote some numbers there?

20 MR. SULLIVAN: No, I was going to ask you

21 to direct me to what I need to look at in this thing,

22 if anything.

23 CHARLIE: Well, see I took our most recent

24 security calculations for Peach Bottom and adjusted

25 them for a full-core offload.

1 MR. SULLIVAN: So we understand in Unit 4
2 the youngest fuel is 105 days.
3 CHARLIE: Yes, and I have a calculation
4 that was done for 90 days.
5 MR. SULLIVAN: Oh that's fine, yes.
6 CHARLIE: That's pretty close, it's just
7 slightly conservative.
8 MR. SULLIVAN: Well, wait a second.
9 That's one offload is 105 days, everything else would
10 be old.
11 CHARLIE: Right, and that's what this
12 calculation would have been. The most recent full-core
13 offload is 90 days.
14 MR. SULLIVAN: So give us your assessment.
15 CHARLIE: Well like I said, normally at
16 four days you would think that that fuel would have
17 still been covered with water.
18 MR. SULLIVAN: I'm sorry, Charlie, we had
19 interference, could you say that last thing again?
20 CHARLIE: If I look at the calculation we
21 had normally I would say that fuel would still be
22 covered. But if they sloshed the water out of the
23 pool, or they had a crack in the liner. Normally I
24 would say it would only be covered by a meter of water.
25 So if they sloshed two or three meters of

1 water out of the pool.

2 MR. SULLIVAN: Well it was a level 9

3 earthquake.

4 CHARLIE: I know, I understand.

5 MR. SULLIVAN: And there were things that

6 (inaudible) 100 feet in the air.

7 CHARLIE: I can't translate a 9.0

8 earthquake into sloshing water out of the pool. I

9 don't know enough about --

10 MR. SULLIVAN: I can't either. But you

11 can imagine this thing is whatever, 60/80 feet in the

12 air with that kind of ground movement. Sloshing is

13 quite likely.

14 CHARLIE: Yes, the pool's about 40 feet

15 deep. About 35/40 feet across.

16 MR. SULLIVAN: Right.

17 CHARLIE: So I can easily imagine you

18 could slosh two or three meters out of it maybe.

19 MR. SULLIVAN: Wow.

20 CHARLIE: I don't know.

21 MR. SULLIVAN: Yes, I don't know either.

22 Anyway, so if we had the adiabatic heat up, you know,

23 there's some water down at the (inaudible), what kind

24 of time-frame would we be looking at. Let's just say -

25 -

1 CHARLIE: Well I understand they got a
2 zirc fire going on now.
3 MR. SULLIVAN: That's our understanding.
4 CHARLIE: So the rest of it is --
5 MR. SULLIVAN: Academic.
6 CHARLIE: Academic.
7 MR. SULLIVAN: It will definitely spread,
8 right?
9 CHARLIE: Well, if for some reason or
10 another they got deep spaces in their pool that could
11 act as a fire break, it might not spread. But you
12 can't count on that if it's a full pool.
13 MR. SULLIVAN: Right. Okay.
14 CHARLIE: If it's fully racked you got to
15 presume that thing's going to propagate through it.
16 Now it could take awhile to propagate through the pool
17 MR. SULLIVAN: Oh great. Actually the
18 Ambassador is asking us how long we think this release
19 will go on. If this thing is burning it's going to go
20 on --
21 CHARLIE: Well this thing could burn for a
22 day.
23 MR. SULLIVAN: Only a day?
24 CHARLIE: Well, it could go longer. I'm
25 trying to at least direct you to the fact that it could

1 last a number of hours. It doesn't propagate quickly.
2 And the releases out of the fuel are very high.
3 MR. SULLIVAN: Yes, that's, I understand.
4 Now the building is still intact.
5 CHARLIE: Are you sure, they had an
6 explosion in the building.
7 MR. SULLIVAN: No, no. Not in this
8 building.
9 CHARLIE: Are you sure? Bill Ruland told
10 me they had an explosion in this building.
11 MR. CASTO: In Unit 4, we haven't heard
12 that.
13 MR. SULLIVAN: No we haven't heard that.
14 CHARLIE: Well if it's a water reaction
15 with the zirconium clouding it produces hydrogen.
16 MR. SULLIVAN: Oh, my.
17 CHARLIE: Randy, this is not the air
18 oxidation, this is a boil off. This is steam oxidation
19 of zirconium. This makes lots of hydrogen.
20 MR. SULLIVAN: I'm sorry, you were
21 correct, we do have that report. Hydrogen exploded.
22 CHARLIE: Hydrogen explosion. I assume
23 its blown the top of this building off.
24 MR. SULLIVAN: Okay. So then we have no
25 played out?

1 CHARLIE: No, not enough to get excited
2 about.
3 MR. SULLIVAN: Not that it would matter.
4 CHARLIE: I mean, look I don't know. I'm
5 speaking here but I presuming that you've had a huge
6 hydrogen generation.
7 MR. SULLIVAN: Well we would generate as
8 much hydrogen as we can.
9 CHARLIE: You'd have to generate maybe
10 four cores worth.
11 MR. SULLIVAN: Now that the building's
12 open that won't matter will it?
13 CHARLIE: No.
14 MR. SULLIVAN: Well, then it was only a
15 matter of time before there would be an explosion
16 anyway.
17 CHARLIE: Well, because this is no longer
18 an air oxidation. This is not an air-ox, this is boil
19 off, so it's a steam oxidation.
20 MR. SULLIVAN: Yes, and so in the presence
21 of water we get hydrogen, is that what you're saying?
22 CHARLIE: Yes. Well, you know, the water
23 boils, steam. Steam passes over the upper part of the
24 fuel rods and oxidizes the zirconium and then --
25 MR. SULLIVAN: Oh, I see what you're

1 saying, yes.

2 CHARLIE: That's where the steam, the

3 steam is coming from the water in the lower half of the

4 pool, boiling.

5 MR. SULLIVAN: Well I guess it doesn't

6 matter. I mean if the thing's on fire and we're -- You

7 know, Trish just got readings. I'm looking at them. I

8 think MP4 is what I want to see, at 593 microsievert I

9 wish I knew what a microsievert was.

10 CHARLIE: A hundred times that is a

11 microrem.

12 MR. SULLIVAN: Well that's only 60

13 millirem. And I got 100 millirem. Oh I see, this is

14 all, they have six monitors and that's the best data

15 we've been getting. It looks like MP4, which I think

16 is close to Unit 4, in the actual data file we have a

17 map of them.

18 CHARLIE: I don't understand if they've

19 got a zirc fire and that kind of levels. I don't

20 understand why you're reading through that low,

21 frankly.

22

23 MR. SULLIVAN: Yes, everything's MP4 in

24 this run. Anyway MP --

25 CHARLIE: Yes, but what's that stuff about

1 10-R per hour?

2 MR. SULLIVAN: I don't know.

3 FEMALE PARTICIPANT: They said it was at

4 the gate of Unit 4, whatever that means.

5 MR. SULLIVAN: Yes, that would not be

6 where the monitors are. These are at the site

7 boundary. If she said the gate of Unit 4, that would

8 be closer to Unit 4. Unit 4 is the most southerly

9 unit. But that doesn't matter. But I should have six

10 monitors that are directly downwind of it. Boy, I sure

11 would like that data.

12 CHARLIE: Well, like I said, if they got a

13 zirc fire in progress you should be getting, you should

14 be getting really high --

15 MR. CASTO: So, Charlie, have you slept

16 lately?

17 CHARLIE: I beg your pardon?

18 MR. CASTO: Have you slept lately?

19 CHARLIE: Not too much. Not too much,

20 but, that's okay. Like I said, when I first look at

21 this thing I would have said this fuel shouldn't be

22 but, you know, it's --

23 MR. CASTO: Hey, Charlie, give me just

24 half a second. So we have probably the world's expert

25 on spent fuel fires on the phone. Do we want to

1 explore that further? I mean he briefed me, I think I
2 understand what the situation is. Do you want Charlie
3 to join us? Do these guys want a more detailed
4 briefing?
5 I'm offering your services.
6 CHARLIE: Well I don't, like I said, if
7 you want detailed information on how quickly the fire
8 will propagate through the pool, that I'd be hesitant
9 to, I'd want to look at some other stuff first before
10 I'd hazard a guess on that. But it could take a long
11 time.
12 MR. SULLIVAN: No, I don't think we need
13 that. We're in day four.
14 CHARLIE: But like I said, they should be
15 checking the pools of the other --
16 MR. SULLIVAN: Yes, I'm trying to get that
17 word in to our management. I've written that up, I
18 told them that an hour ago.
19 CHARLIE: Because I heard that one of the
20 other shutdown units was actually shutdown more
21 recently.
22 MR. SULLIVAN: We have three units that
23 were operating. They all have spent fuel pools.
24 CHARLIE: Yes, but in those cases you only
25 had a third of the most recent core in the pool.

1 FEMALE PARTICIPANT: It's the most recent
2 offloaded fuel that's --
3 MR. SULLIVAN: Unit 5 shut down about 60
4 days ago. Unit 6, 180 days.
5 CHARLIE: If you had one at 60 days that's
6 worse than the one at 90 days.
7 MR. CASTO: Yes. Hey, Charlie, somebody
8 was asking me about the magic number of when fuel won't
9 burn at all. And I told them it will air cool at a few
10 years.
11 CHARLIE: Oh actually, if they disperse
12 the fuel like we do in our plants, it will be air cool-
13 able in about a month. I have no idea what the
14 Japanese do about that.
15 MR. SULLIVAN: Yes, but see we're not
16 talking air cooled, we're talking --
17 CHARLIE: I understand. I'm just saying
18 you could. And if you disperse the fuel you could
19 delay the heat up quite a bit, even if you start to
20 uncover it.
21 MR. SULLIVAN: Yes, but quite a bit is
22 three or four days, right?
23 CHARLIE: Yes, maybe a day or so. But
24 like I said, that's with uncovering.
25 MR. SULLIVAN: We're a frickin' day

1 forward. This guys are having trouble pumping water.
2 I don't know if that's because of rubble. You know
3 this thing was hit with a tsunami. It could be
4 anything you put --
5 CHARLIE: (b)(5)
6 (b)(5)
7
8 MR. SULLIVAN: (b)(5)
9 (b)(5)
10 CHARLIE: (b)(5)
11
12 (b)(5)
13
14 MR. SULLIVAN: (b)(5)
15
16 (b)(5)
17
18 CHARLIE: And it's not like they got to
19 add a lot of water, they just got to add a little bit.
20 MR. SULLIVAN: Yes.
21 CHARLIE: And by the way, they don't have
22 to add the water to a closed, pressurized system. All
23 they got to do is add it to a pool.
24 MR. SULLIVAN: I got that.
25 CHARLIE: (b)(5)

1 (b)(5)

2 MR. SULLIVAN: I've already written that

3 up and sent it in, (b)(5)

4 (b)(5)

5

6 CHARLIE: Yes, well like I said, I don't

7 understand how Unit 2 now has maybe got a failure of

8 the (inaudible).

9 MR. SULLIVAN: Yes, I can explain that to

10 you better. I don't think we understand the level of

11 damage at this site. I think they're having trouble

12 pumping water.

13 CHARLIE: Well I know.

14 MR. SULLIVAN: I think anytime you throw a

15 hose into a pool from a fire truck you suck up a bunch

16 of debris or something. And you lose your pumps.

17 They've had pumps, they've had electricity, they've had

18 generators. And yet they can't pump water.

19 CHARLIE: (b)(5)

20 (b)(5)

21

22 MR. SULLIVAN: They do. They do.

23 CHARLIE: But why isn't that water clean

24 for them to pump?

25 MR. SULLIVAN: Because the infrastructure

1 has been destroyed.

2 CHARLIE: No fire trucks carrying any

3 semi-clean water?

4 MR. SULLIVAN: Sure, and they're trying to

5 fill up the containments. We need a million gallons or

6 whatever the hell it is.

7 FEMALE PARTICIPANT: And they have to

8 airlift the fire trucks in, that's part of the problem.

9 MR. SULLIVAN: Yes. And the fire trucks

10 got to be airlifted in, you can't have water in them.

11 So --

12 CHARLIE: Oh. Look, I know. (b)(5)

13 (b)(5)

14

15 MR. SULLIVAN: Well, right. And the pool

16 would have been easier to take care of and maybe it's

17 the bigger threat. (b)(5)

18 (b)(5)

19

20

21 CHARLIE: I know.

22 MR. SULLIVAN: I understand the diesels

23 came up and, you know --

24 CHARLIE: (b)(5)

25 (b)(5)

(b)(5)

MR. SULLIVAN: Okay. I'm trying to get that word into management now.

CHARLIE: (b)(5)

(b)(5)

MR. SULLIVAN: They have six pools on this site.

CHARLIE: Like I said, these pools got a lot of fuel in them.

MR. SULLIVAN: You bet. I mean why wouldn't it look, these things are Dresden vintage, some of them, why wouldn't it look like the Dresden fuel pool. After we (inaudible) and the boron curtain put in and everything else.

So the fire can spread to very old fuel, right?

FEMALE PARTICIPANT: Yes.

CHARLIE: No, it can't.

MR. SULLIVAN: Ah.

CHARLIE: It can't.

MR. SULLIVAN: So if I've got fuel that's a year old or two or three it --

CHARLIE: What happens is the hot fuel, when it's on fire, it radiates the heat transfer to the

1 surrounding stuff. Just like the tree that's not on
2 fire catches fire from the tree that is.
3 MR. SULLIVAN: All right. You said yes,
4 the fire can propagate.
5 CHARLIE: Yes, the fire can propagate.
6 MR. SULLIVAN: To old fuel?
7 CHARLIE: To old fuel.
8 MR. SULLIVAN: That's what I told them.
9 Okay, man. Hey, I don't know what to say. I think we
10 got to raise this issue up. I mean --
11 CHARLIE: Well like I said, the cesium
12 released from a spent fuel pool fire is monstrous.
13 MR. SULLIVAN: That's what I told them.
14 CHARLIE: And I'm presuming they blew the
15 top of the reactor building off. I don't know, maybe
16 they didn't.
17 MR. SULLIVAN: (b)(5) I
18 mean if there's a place for hydrogen to collect, and
19 there's a fire below it certainly will. I mean those
20 are blow-off panels, it's not a containment.
21 CHARLIE: I know. Like I said, they could
22 get, they maybe could get some scrubbing. But I
23 wouldn't count on it on a (inaudible).
24 MR. SULLIVAN: (b)(5)
25 (b)(5)

(b)(5) That's probably true, right?

CHARLIE: I think, probably. But, man, you're taking about a whopper release of cesium. There won't be much iodine at 90 days.

MR. SULLIVAN: No, no.

CHARLIE: But there'll still be a ton a cesium.

MR. SULLIVAN: They've evacuated out to 20 kilometers, 12 miles or so.

MALE PARTICIPANT: Well, Charlie, prevailing winds are going to be out of the northwest again, so things should be going back out to sea.

CHARLIE: That's the thing I concluded. The best thing that could happen to them is the thing blow out to sea. (b)(5)

(b)(5)

MR. SULLIVAN: (b)(5)

(b)(5)

CHARLIE: Yes, but I don't understand how you vent into the third reactor building when the first two blew up because you vented into the reactor building. We had two reactors. They vented the reactor building, the hydrogen collected in the reactor building and blew the top off the reactor building and

1 they did the exact same thing. Don't they have any
2 other vents?
3 MR. SULLIVAN: They do not have hardened
4 vents.
5 CHARLIE: They don't?
6 MR. SULLIVAN: No. They have stand-by gas
7 treatment. They do not have hardened vents.
8 CHARLIE: Wow.
9 MR. SULLIVAN: So they're opening, they
10 probably had to take a battery set to the valves.
11 CHARLIE: I got you.
12 MR. SULLIVAN: (b)(5)
13 (b)(5)
14 CHARLIE: They got no hardened vents?
15 MR. SULLIVAN: They got no hardened vents,
16 that's my understanding. They didn't need them. And
17 so they're using stand-by gas, which cannot take all--
18 CHARLIE: Yes, look, I understand. I
19 thought they might be able to hook up some kind of
20 hardened pipe system to vent that thing. But maybe
21 not.
22 MR. SULLIVAN: You know, and they probably
23 had DC power for eight hours or ten hours, that's two
24 days ago. And so how come they couldn't --
25 CHARLIE: Well, look, I kind of figured

1 they didn't have a hardened vent, but I was kind of
2 stunned at that too.
3 MR. SULLIVAN: Well, that was a back-fit
4 that we forced on DWI.
5 CHARLIE: Yes, 30 years ago.
6 MR. SULLIVAN: It wasn't 30 years ago.
7 CHARLIE: Yes, it was. That was --
8 MR. SULLIVAN: (b)(5)
9 (b)(5)
10 FEMALE PARTICIPANT: I think so.
11 CHARLIE: Yes, but I mean that hardened
12 vent stuff, that was old stuff.
13 MR. SULLIVAN: To the best of our
14 knowledge they do not have a hardened vent.
15 CHARLIE: (b)(5)
16 (b)(5)
17 MR. SULLIVAN: Oh, well they would have
18 used it if they had it, come one. They just have a lot
19 of --
20 CHARLIE: Well, like I said. (b)(5)
21 (b)(5)
22
23 MR. SULLIVAN: Okay. (b)(5)
24 (b)(5) And it must have
25 been severe difficulties. They were trying to pump

1 seawater into these places two days ago.

2 CHARLIE: Well, I understand. But could

3 they spare 50 gallons per minute into the pool?

4 MR. SULLIVAN: Yes, right. I get it.

5 MALE PARTICIPANT: Charlie --

6 CHARLIE: Yes, look, I'm not helping you

7 here so.

8 MR. SULLIVAN: Hey, Charlie, give me a

9 second, we have something for you.

10 MR. CASTO: Yes, we just talked to our

11 contact over in Japan and the Japanese government is

12 saying that there is a fire in Unit 4 spent fuel pool.

13 And the spent fuel pool is drained.

14 CHARLIE: Is drained?

15 MR. CASTO: Drained, was their words.

16 CHARLIE: Oh, that suggests they had

17 something else happen. Drained?

18 MALE PARTICIPANT: Yes, Charlie, yes.

19 CHARLIE: Drained?

20 MR. SULLIVAN: I've been briefed on the

21 whole thing.

22 MR. CASTO: We're still trying to confirm

23 that, but that was from the Japanese government.

24 MR. SULLIVAN: Hey, Charlie, you're needed

25 by the Reactor Safety Team.

1 MR. GATES: Hi, Charlie, this is Mike
2 Gates (phonetic). Hey, we're looking for somebody we
3 can talk to about core on the floor. So who would you
4 suggest that we get in contact with to just talk about
5 that subject in general? When, I'd prefer an NRC
6 person, but if it's a lab person that would be fine
7 too.
8 CHARLIE: Well, I mean it depends on how
9 deep you want to talk about it. I can talk about it a
10 little bit, okay?
11 MR. GATES: Okay.
12 CHARLIE: Normally we would expect, in a
13 Mark I, if you had water on the drywell floor, that at
14 a minimum you could prevent the liner failure. You're
15 still going to eat at the concrete. But how much
16 spreading you would get under the water -- But if the
17 floor is dry it's quite possible the molten corium runs
18 out to the edge of the drywell floor.
19 And melts through the steel containment
20 vessel.
21 MR. GATES: Okay. You are now our core on
22 the floor expert, at least --
23 CHARLIE: Well, like I said, there's a
24 fellow at Argon, by the name of Mitch Farmer.
25 MR. GATES: Mitch Farmer?

1 CHARLIE: Mitch Farmer. Who is a --

2 MR. GATES: Do we have his number?

3 CHARLIE: I don't think I've got it here.

4 MR. GATES: Okay. Charlie, one last

5 question. How could I figure out whether, in the

6 situation we're in, how can we figure out whether

7 there's water in the drywell floor?

8 CHARLIE: Well it depends. I mean is this

9 the plant they were trying to add water to their PCV?

10 MR. GATES: Say that again?

11 CHARLIE: Was this the unit they were

12 trying to add water to the primary containment vessel?

13 MR. GATES: Well, I'm thinking of Unit 2.

14 CHARLIE: Unit 2. I don't know. Whew.

15 MR. GATES: And they have very little

16 indication. You know, the only thing we know about the

17 containment that, you know, is a data point from six

18 hours ago, that it went from three atmospheres down to

19 one atmosphere.

20 So it's probably at atmospheric pressure.

21 You know, the fire system is trying to pump into the

22 reactor vessel. But our sense is that's probably

23 around 500 pounds and none of that fire water is making

24 a dent.

25 CHARLIE: They can't get any SRVs open?

1 MR. GATES: I haven't asked that question
2 specifically. But they've been having trouble.
3 CHARLIE: Yes, I know. I've heard this,
4 but I heard they had some emergency batteries. And I
5 assume they were using them to try to keep SRVs open.
6 MR. GATES: Yes, I would think so too.
7 CHARLIE: Okay. The whole idea of that is
8 to open up SRV so you can depressurize the thing to get
9 low pressure pumping in. But if they don't have any
10 water on the floor, in an old corium laser reactor
11 vessel there was a (inaudible) across the drywell floor
12 that comes in contact with the steel shell.
13 The drywall liner shell. It'd melt
14 through it, steel.
15 MR. GATES: Okay. Good, well we'll scout
16 around for information.
17 CHARLIE: Okay, now if they do have water
18 on the floor, because they've tried to add water to the
19 containment. Okay. Then you can at least get a little
20 bit of scrubbing of the debris and reduce the fission
21 product release. And generally we would advise people
22 to try to flood the drywell and get some water on the
23 floor.
24 MR. GATES: Okay. One last thing. Naval
25 Reactors is telling us that to fight a zirc fire they

1 should put sand on it.

2 CHARLIE: Say that again.

3 MR. GATES: Naval Reactors has told us to

4 fight a zirc fire to put sand on it and to avoid using

5 water. Do you know why they would say that?

6 CHARLIE: No, I don't. I mean I guess the

7 argument being that maybe you could smother it. Okay?

8 If you dumped enough sand to prevent air from entering

9 the bottom of the pool, okay?

10 MR. GATES: Yes, but that would be a long

11 shot I would think.

12 CHARLIE: Okay. But the deal is you've

13 got to dump enough of it in there to seal up the bottom

14 of the pool so air can't get down below, okay? If you

15 can't do that then you haven't accomplished anything.

16 And even then, okay, that fuel will still smolder from

17 the top for a long, long time.

18 Now, there are some down sides to adding

19 water. But, like I said, we've looked at it, you know,

20 we've got calculations if you could add a couple

21 hundred gallons. The calculations we always presumed

22 were on the order of about 500 gallons a minute.

23 MR. SULLIVAN: You mean spraying, right,

24 Charlie? Spraying?

25 CHARLIE: By spraying. But you know, that

1 was the B5B stuff that we made people do.

2 MR. GATES: Okay, Charlie, I'm going to

3 turn you back to the PMT, but I may be in contact

4 throughout the night. And we appreciate your help.

5 MR. SULLIVAN: Charlie, are you going to

6 try to sleep? You're not going sleep?

7 CHARLIE: Yes, I am. Because there's

8 nothing I can tell the PMT, to tell you the truth.

9 MR. SULLIVAN: Well, okay. You deserve

10 your sleep. So what I'm thinking is, these guys are

11 going to want you. I mean tomorrow morning, with this

12 spent fuel stuff going on, I mean who else can we call?

13 CHARLIE: Well, like I say, other people

14 for the spent fuel pool, you can call Jason, he's

15 familiar with the spent fuel stuff. K.C. Wagner, okay,

16 you can call him.

17 MR. SULLIVAN: (b)(5)

18 (b)(5)

19 CHARLIE: Yes, I know, but you can still

20 call him. You can reach him at Dycoda in the morning.

21 (b)(6)

22 MR. SULLIVAN: I'm sorry let me write that

23 down, somewhere. Give me that number.

24 CHARLIE: (b)(6)

25 MR. SULLIVAN: Okay.

1 CHARLIE: He gets in fairly early in the
2 morning.
3 MR. SULLIVAN: They're two hours behind
4 us, man.
5 CHARLIE: I know. Well, like I said, I
6 don't know what you guys think you're going to do with
7 a raging zirc fire in the spent fuel pool. If you've
8 got no way to inject water. And good luck on dropping
9 sand from wherever you think you're going to drop it
10 from. Okay?
11 MR. SULLIVAN: I don't know how you'd fill
12 up a spent fuel pool with sand. I mean, you know, if
13 you could just get some spray up there. I don't know
14 how you'd do that either.
15 CHARLIE: Well, like I said --
16 MR. SULLIVAN: You know, I think we ought
17 to focus on the other spent fuel pools at the least.
18 CHARLIE: Yes, I mean there's one pool
19 fry. But you say the thing's drained empty.
20 MR. SULLIVAN: Well, we were told it was
21 empty. We don't know that, you know, these guys --
22 CHARLIE: Oh, good grief.
23 MR. SULLIVAN: I'm looking at a note here,
24 "spent fuel pool dry and appears to be a zirc fire."
25 And that's --

1 CHARLIE: Well that doesn't mean, see, it
2 could be half uncovered and starting --
3 MR. SULLIVAN: That's right.
4 CHARLIE: Maybe you could put it out if
5 you could spray water in. (b)(5)
6 (b)(5)
7 MR. SULLIVAN: (b)(5)
8 (b)(5)
9 CHARLIE: Well you know, when we developed
10 B5B requirement it said spray water in. And if you
11 remember the National Academy of Sciences recommended
12 they have spray systems.
13 MR. SULLIVAN: Yes.
14 CHARLIE: Now, spray does provide steam --
15 MR. SULLIVAN: Yes, steam could --
16 CHARLIE: -- which could then oxidize,
17 okay. But if you spray from the top it gradually
18 quenches. It takes it, you know, there's a counter
19 effect there, but it gradually quenches. Okay? And if
20 you got a big enough spray you can -- Well actually the
21 deal, if the zirc fire's going on it's tough to put
22 out.
23 But the spray could also scrub fission
24 products too. If the zirc fire is raging on -- Well
25 let me think about that a little bit. I just can't see

1 you thinking that you can effectively dump enough sand
2 in there to put that thing out.
3 MR. SULLIVAN: Can you scribble down our
4 number?
5 CHARLIE: What?
6 MR. SULLIVAN: Can you take down our
7 number?
8 CHARLIE: Sure.
9 MR. SULLIVAN: 301-816--
10 CHARLIE: Is that 5100?
11 MR. SULLIVAN: No, 5419 is right here to
12 the PMT.
13 CHARLIE: 5419, let me think about that a
14 little bit, 5419.
15 MR. SULLIVAN: Okay.
16 CHARLIE: Thank you, sir.
17 MR. SULLIVAN: Thank you.
18 (CONFERENCE CALL ENDED.)
19
20 0%C1-W8_15365094
21 (CONFERENCE CALL INITIATED.)
22 JEFF: Main reactor.
23 MS. MILLIGAN: Hi, looking for Jeff?
24 JEFF: Yes.
25 MS. MILLIGAN: Hi, Jeff. Trish Milligan,

1 Nuclear Regulatory Commission, how are you?

2 JEFF: Hi. You guys, you much have about

3 1,000 people over there. Because every time I call

4 it's somebody else, it's --

5 MS. MILLIGAN: It just seems like 1,000

6 people.

7 JEFF: It's (inaudible), it's Bethany,

8 it's Sloan.

9 MS. MILLIGAN: Yes, different numbers

10 bring you different people and then we all imitate each

11 other's voices, so you know.

12 JEFF: I see. Well that's like I went to

13 Capital Steps the other night, you know, they do pretty

14 good stuff.

15 MS. MILLIGAN: (Inaudible.)

16 JEFF: Okay. You had asked (b)(5) I

17 got people pulling the strings, seeing what we've got.

18 I think we will be able to, but I guess our thought is

19 this. (b)(5)

20 (b)(5)

21

22 MS. MILLIGAN: I understand. Thank you.

23 JEFF: What we would prefer to do, because

24 (b)(5)

25

run here and take care of everybody.

MS. MILLIGAN: Yes, that would actually be a good thing to do.

JEFF: How many people are we talking that we need (b)(5)

MS. MILLIGAN: Let me find out and I can call you right back.

JEFF: Okay. Our thought is that we'll

(b)(5)

MS. MULLIGAN: Sure thing. I'll call you right back.

JEFF: Okay.

MS. MULLIGAN: Thanks, bye.

(CONFERENCE CALL ENDED.)

0%C5Y)@L15365094

(CONFERENCE CALL INITIATED.)

MS. MILLIGAN: Jim, hi. It's Trish Milligan from Operations Center. We have some questions for you and we need to confirm something and I hope you get this really soon. 301-816-5419. It is

2:33 Eastern local time. So if you could give us a call back we really need to talk to you about the (inaudible) issue. Thanks, bye.

(CONFERENCE CALL ENDED.)

0%C8RM9_15365094

(CONFERENCE CALL INITIATED.)

MS. MILLIGAN: NRC.

JEFF: Hi, this is Jeff Gorbach (phonetic), NRC Rep down at USAID, whom am I speaking, this is Trish?

1 MS. MILLIGAN: Ms. Milligan.

2 JEFF: Hey, how are you.

3 MS. MILLIGAN: Good.

4 JEFF: I actually have more than one

5 question for you since you're the one who picked up.

6 Just to make sure you are on the same page as us here

7 (b)(5) I talked to Chuck Casto while he is,

8 his travel plans have him --

9 MS. MILLIGAN: I'm sorry you keep fading.

10 JEFF: I'm sorry.

11 MS. MILLIGAN: You're fading away.

12 JEFF: Oh, sorry. Chuck Casto, I spoke to

13 him, he is on a layover in Dallas right now. I spoke

14 (b)(5)

15

16 morning when their flight leaves.

17 MS. MILLIGAN: Okay.

18 JEFF: When his flight leaves. So NRC

19 personnel should be covered. I did reach out to Navy

20 Reactors in Japan, (b)(5)

21 (b)(5)

22 MALE PARTICIPANT: That should do it.

23 JEFF: (b)(5)

24 (b)(5)

25

about an hour away from Tokyo.

So just to let you know that and if you wanted to write that down to have that in your back pocket. If you think we need more of that stuff there we'd be willing to drive that out.

MS. MILLIGAN: Okay.

JEFF: (b)(5) I think we're okay on that. Because as I understand it (b)(5) (b)(5)

And now I'm getting requests because I called DOE's NIT, I guess their Ops Center, and they keep shoving us away because they are claiming they are too busy to handle any calls from external people.

We're trying to find out, I didn't know if you were familiar with their Ops and I don't know if Lou is standing right there.

MS. MILLIGAN: Yes, he is.

JEFF: He is?

LOU: I better pay attention here.

JEFF: Lou? Hey, this is Jeff Gorbach, so we got a question regarding DOE has sent assets, they're sending assets and we're trying to find out. I know that (inaudible) has kind of given us, they're

1 shrugging us off.

2 What we're trying to find out the

3 difference between the consequence Management Team, the

4 Aerial Management Team, the Atmospheric Monitoring POD.

5 All their teams have been referred to at

6 one point or another and I just want to make sure, in

7 context it kind of sounds like it's all referring to

8 the same team. And I just want to confirm that that's

9 true. And if it's not, what's the difference between

10 them?

11 LOU: Well, yes the FRMAC is the overall

12 umbrella.

13 JEFF: Understood.

14 LOU: And then within that they have all

15 of those different resources. So they have people

16 dedicated to the AMS, the aerial monitoring system.

17 And that will be a team that goes out when the FRMAC is

18 called to do that particular job. And then they have a

19 monitoring team, they have an assessment team. And

20 then those other teams that you were mentioning, am I

21 answering your question?

22 JEFF: Yes, I think so. I don't know if

23 you've heard about what it has been called, I doubt you

24 would, but basically they said they've sent two POD

25 monitors. I guess the PODs are the detectors

1 themselves, the fixed wing detectors?

2 MS. MILLIGAN: Right.

3 LOU: That's sounds it, yes.

4 JEFF: Okay. What I've been told is that

5 out of Vegas sometime early last night two PODs were

6 sent out to Japan along with technical teams to

7 support. And then they keep rattling off different

8 teams for different things and we just want to make

9 sure it's just all the same group of people.

10 LOU: Yes.

11 JEFF: Irregardless of function, we don't

12 care about function, it's all the same group of people?

13 LOU: Yes. But the way it works is, you

14 know, the FRMACK has become interagency.

15 JEFF: Yes.

16 LOU: And so they have National Labs to

17 begin with and then they draw in from --

18 JEFF: Right, it starts as, where is the

19 NARAC, is the NARAC first or is the NARAC after they

20 draw in people?

21 LOU: Well NARAC is the first of the DOE

22 resources to get called in. And then Sandia Remote

23 Sensing Laboratory. And if they're going to dispatch

24 people to some particular site then they pull in the

25 National Lab scientists who are trained for particular

1 positions.

2 JEFF: Okay. So now that they are sending

3 these teams and referring to the teams, is it safe to

4 call them the FRMACK or are they just still separately

5 as, you know, separately independent as team.

6 LOU: If they're just sending PODs with

7 support, it sounds like a partial activation of their

8 resources.

9 JEFF: All right, that's a great

10 explanation. So I will move forward with that and I'm

11 not going to hold you to it because I know it's not

12 really our resource to speak to, but we could use a

13 clarification. So that's perfect.

14 LOU: Okay.

15 JEFF: Okay, fantastic. I think I can

16 live with that. And if there's anything else you guys

17 need for KI or any other interagency thing please let

18 me know.

19 LOU: Where are you working from right

20 now?

21 JEFF: Yes, I'm downtown at USAID, the

22 Agency on International Development, kind of their

23 response center.

24 LOU: Okay, very good. We have your

25 number?

JEFF: Yes, I've got, yes you can either reach Liaison Team, if you want to take down my number I can give it to you right now if you like?

MS. MILLIGAN: Okay, go ahead.

JEFF: (b)(6) and I will be relieved at 7 o'clock by Mike Dudeck (phonetic) and Jason Kogel (phonetic).

MS. MILLIGAN: Okay. So this number stays good for that, right?

JEFF: Actually it'll change, but I will, let me get you Jason's number. I've got it in my phone, one second. Jason's phone is (b)(6)

MS. MILLIGAN: Okay.

JEFF: And he will relieve me, actually he's probably going to be closer because he's going to try to catch the briefing at 7:00-ish, right there at the Ops Center. So we'll be down here 24/7 now.

MS. MILLIGAN: Okay.

JEFF: All right? Fantastic, thank you guys very much.

MS. MILLIGAN: Thank you.

JEFF: All right, bye.

MS. MILLIGAN: Good night.

(CONFERENCE CALL ENDED.)

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19 0%C9H^-615365094
20 (CONFERENCE CALL INITIATED.)
21 MS. MILLIGAN: NRC, this is Ms. Milligan.
22 MR. DILLON: Hello, this is Mike Dillon,
23 I'm calling from NARAC. I had a couple of questions.
24 Following up on a source term you folks sent over
25 earlier.

1 MS. MILLIGAN: Okay.

2 MR. DILLON: I'm looking at the Unit 4,

3 spent fuel.

4 MS. MILLIGAN: Hang on a second. Hey,

5 Lou.

6 MR. DILLON: Not a problem.

7 MR. BRANDON: Hello, this is Lou.

8 MR. DILLON: Hey, Lou, this is Mike Dillon

9 from NARAC.

10 MR. BRANDON: Hi, Mike.

11 MR. DILLON: How are you?

12 MR. BRANDON: Oh, we are trying to make

13 sense out of everything.

14 MR. DILLON: I hope you're doing better

15 than we are. Quite a collection of the flight data

16 here.

17 MR. BRANDON: So those source terms that

18 we were sent to you, we were pressured to do two

19 things. One, get them to you and two, to coordinate

20 with DOE and you guys to try and get on the same track

21 so we were getting somewhat consistent results going

22 forward.

23 MR. DILLON: Understood. I'm looking at

24 the Unit 4 spent fuel source term at the moment, the

25 fire. Is that still your current source term that you

1 want us to look at?

2 MR. BRANDON: That's the best we have at

3 this point. Based on notice that there was a zirconium

4 fire now. That is modeling that you've got ten batches

5 of fuel, plus one fresh one. And that this fire is

6 going to propagate through and release the fission

7 product from all of them. But we --

8 MR. DILLON: Approximately, I want to say

9 11 hours total release time? What you sent?

10 MR. BRANDON: Well, we ran the calculation

11 for 13 hours to basically allow the wind to get out a

12 little bit beyond 50 miles.

13 MR. DILLON: That's a source term with --

14 MR. BRANDON: But that source term could

15 release for a longer period than that. You know, if

16 it's a fire that's burning you could model it longer.

17 MR. DILLON: So I'm currently trying to

18 model your choice of source term, and use that in our

19 dispersion model. Do you recommend a particular time

20 period? Or just using this as total quantity in scale

21 to the whatever scenario time?

22 MR. BRANDON: It's hard to nail it. We

23 heard that there was some indication the fire was out.

24 But we're not sure. And in the case where it was not

25 out and continued to burn for a long time there would

1 be the other side where if you ran it for a longer
2 duration you'd get a larger impact out there.
3 MR. DILLON: Understood.
4 MR. BRANDON: So what are we saying? I'd
5 say probably that in the middle between all of the
6 possible cases there. That's probably a good one to
7 run.
8 MR. DILLON: Okay, so I can do
9 approximately 11 hour release time?
10 MR. BRANDON: If you guys, yes, get better
11 information -
12 MR. DILLON: (Inaudible.)
13 MR. BRANDON: Yes, if you can characterize
14 it.
15 MR. DILLON: Yes, if there's better
16 information. I have no information at this point, I'm
17 currently working on what you have. I guess the next
18 question I have is the choice of nuclides? There's
19 quite a few in there. I notice there's only three
20 biggies in terms of total curie release, so I haven't
21 tried to convolute with the best conversion factor.
22 MR. BRANDON: Okay, so that's been
23 standard practice for NARAC in the past, is just to
24 take the bad actors and model those because I know that
25 puts a lot less stress on your system there.

1 MR. DILLON: Yes, since we're doing full
2 decay chain that tends to slow things down. But for
3 some reason we want things quickly.
4 MR. BRANDON: So yes, I think that's
5 practical to use that approach. And you're still going
6 to get about the same impact.
7 MR. DILLON: Okay, so the ones, the
8 previous, the meltdown version, the scenarios you gave
9 us before had about roughly, 16 of the key nuclides.
10 This one seems to be a lot more limited. I've only
11 seen three nuclides that are contributing the vast
12 majority of total curie release.
13 MR. BRANDON: It's because in the spent
14 fuel pool, well maybe not totally, but you've got one
15 fresh batch which is a third of the core, and then
16 everything else has decayed for at least a year and a
17 half. So that may --
18 MR. DILLON: So if I select cesium-137,
19 cesium-134 and krypton-85, does that give you heartburn
20 and ignore the rest?
21 MR. BRANDON: In this case that fresh
22 batch for Unit 4 was 105 days old. So you're not
23 seeing any krypton. Is there much krypton in there?
24 MR. DILLON: there is a good amount of
25 krypton in there, it's --

1 MR. BRANDON: I'm sorry, xenon is what I
2 meant to say.
3 MR. DILLON: No, xenon was extremely low,
4 in terms of total curie.
5 MR. BRANDON: Okay, so I think that's just
6 had a chance to decay away after 105 days.
7 MR. DILLON: Yes. The largest xenon I saw
8 is 131 metastable, which looks like about 500 curies or
9 so worth. For a comparison, cesium-137 is 5E-6 curies.
10 MR. BRANDON: Okay.
11 MR. DILLON: So we're talking (inaudible).
12 MR. BRANDON: Okay. So yes, I think you
13 can pick them off of there, the bad actors. I don't
14 have it right in front of me. But I think --
15 MR. DILLON: Okay, would you like me to
16 forward it to you? Would that be helpful?
17 MR. BRANDON: No, we have lots of copies.
18 Okay, now I have it in front of me. So what you're
19 suggesting is run with the cesium. The iodines are
20 pretty much gone. And the krypton --
21 MR. DILLON: Krypton-85.
22 MR. BRANDON: -- 85, yes.
23 MR. DILLON: Cesium-137, 134, krypton-85,
24 appear to have the vast majority of the curies.
25 MR. BRANDON: Yes, so I think that's

1 practical. Run with that you can see how the impact
2 compares. But I think you'll be right there, about the
3 same anyway.
4 MR. DILLON: Okay, that sounds good to me.
5 Any other advice you have on this particular scenario?
6 MR. BRANDON: I guess, are you going to
7 share it with us when you run these?
8 MR. DILLON: I'll share it with the net
9 and my understanding, at least previous times, that
10 it's been allowed to be shared to you.
11 MR. BRANDON: Okay.
12 MR. DILLON: But ultimately I have to
13 release authority through the net.
14 MR. BRANDON: We're picking up everything
15 under my name, Lou Brandon, if you can share it. And
16 then we'll take a look at it.
17 MR. DILLON: Yes, definitely I would
18 appreciate feedback.
19 MR. BRANDON: Okay. And so I think that
20 sounds like a good fast forward. How long does it
21 sound like it might be before you guys process?
22 MR. DILLON: Well I'm going to put this in
23 right now. I'm hoping on order, let's say an hour,
24 hour and a half. Probably less, but you know how luck
25 goes around here.

1 MR. BRANDON: Okay, I understand.

2 MR. DILLON: We have miscellaneous

3 interruptions. But I probably can get that.

4 MR. BRANDON: All right, sounds good.

5 We'll talk to you. And what was your name again?

6 MR. DILLON: My name is Mike Dillon.

7 MR. BRANDON: Mike Dillon, all right,

8 Mike.

9 MR. DILLON: That's my rough estimate.

10 That's not a guarantee but it should be about right.

11 MR. BRANDON: Okay, Mike, enjoy your

12 evening.

13 MR. DILLON: All right, take care.

14 (CONFERENCE CALL ENDED.)

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20 (CONFERENCE CALL INITIATED.)

21 FEMALE PARTICIPANT: NRC, this is the PMT.

22 MR. SHARPE: Hi, this is Matthew Sharpe

23 from the State on Japan Task Force. We will just on a

24 conference call where NRC talked a little bit about

25 some modeling that you were working on right now. I

1 was hoping to talk to somebody about some of the
2 assumptions going into that.
3 FEMALE PARTICIPANT: I'm sorry. Same your
4 name again and who you're with?
5 MR. SHARPE: I am Matthew Sharpe from the
6 State Department Japan Task Force.
7 FEMALE PARTICIPANT: Okay. And what was
8 your question again?
9 MR. SHARPE: I guess I'm hoping to talk to
10 somebody who can talk a little bit about the inputs
11 into (inaudible) modeling that NRC is working on.
12 FEMALE PARTICIPANT: Okay. Let me put you
13 on mute for a moment.
14 MR. SHARPE: Okay. Thanks.
15 0%C17ZHL15365094
16 MR. SHARPE: Hello, this is Matthew
17 Sharpe, I'm calling from the State Department's Task
18 Force.
19 MR. MOHSENI: Okay.
20 MR. SHARPE: And I have a couple of
21 questions about some modeling that I think you guys are
22 working on.
23 MR. MOHSENI: Okay.
24 MR. SHARPE: A few things in particular.
25 One is we were told that you guys are assuming a

partial melt through in Reactor Number 2?

MR. MOHSENI: Well, when the core, you know, the core being on the floor, it implies that, yes.

MR. SHARPE: Can you explain a little bit about what evidence we have that the core is on the floor, as you say, and what that means?

MR. MOHSENI: It means basically the vessel has been breached. And the vessel, for it to breach, you have to have core melt to breach through that. So the core itself drops down on the floor.

MR. SHARPE: Is that your sense that that's the case based on the elevated radiation measurements? Or is there a particular isotope that you can pick up that demonstrates that that's going on?

MR. MOHSENI: Just one second, I'll get that info.

FEMALE PARTICIPANT: Do you have the unit site boundary doses. Who has the unit's site boundary doses? Who has the unit boundary site doses?

MR. MOHSENI: I had a 10-R per hour following the zirc fire.

FEMALE PARTICIPANT: Okay we have --

MR. MOHSENI: I'm back. We have an NRC person sent over and he provided the information to us.

1 I don't have, right now the individuals who actually
2 got the basis for that information, but that was --
3 MALE PARTICIPANT: Can everybody please
4 report to the Executive Team Chamber.
5 MR. MOHSENI: Now, I need to, can we talk
6 --
7 MR. SHARPE: Sure, can I take your name?
8 MR. MOHSENI: Aby Mohseni, A-B-Y, M-O-H-S-
9 E-N-I.
10 MR. SHARPE: Okay, I'll give you a call
11 back.
12 MR. MOHSENI: Okay, please do, we can talk
13 further.
14 MR. SHARPE: Thanks a lot, bye bye.
15 (CONFERENCE CALL ENDED.)
16 0%C61MB615365094 (No words to transcribe.)
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18 0%C63U-615365094 (No words to transcribe.)
19 0%C64KGL15365094 (No words to transcribe.)
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19 CHRIS: NRC, Chris (inaudible).
20 MR. KAISER: This is Matt Kaiser
21 (phonetic) at the DOE NIT.
22 CHRIS: Yes.
23 MR. KAISER: I just wanted to touch base,
24 and I think earlier in the day you guys had been
25 joining in the CM Home Team bridge line calls?

1 CHRIS: Okay.

2 MR. KAISER: Those became kind of more
3 sporadic now. I wanted to just touch base and let you
4 know the next one would be at 0600 Eastern Daylight
5 Savings time.

6 CHRIS: Okay.

7 MR. KAISER: And do you have the call in
8 number for that?

9 CHRIS: No. We might. Well, why don't
10 give it me to make sure.

11 MR. KAISER: Yes, I'll give it to you.
12 It's 877-336-1274. And the pin code is (b)(6)

13 CHRIS: Okay.

14 MR. KAISER: And then you'll just need to
15 enter pound after that.

16 CHRIS: Right.

17 MR. KAISER: So yes, we're just trying to
18 help facilitate, make sure there's a straight pathway
19 directly from your source term calculations to our CM
20 Home Team.

21 CHRIS: Okay.

22 MR. KAISER: So if you can be there at
23 6:00, that would be great.

24 CHRIS: Sure, we will. Thank you very
25 much.

1 MR. KAISER: All right, great. Thank you.
2 CHRIS: Thank you. Bye.
3 MR. KAISER: Bye.
4 (CONFERENCE CALL ENDED.)
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18 0%C6529615365094
19 (CONFERENCE CALL INITIATED.)
20 (VOICEMAIL system answers. Message
21 follows.)
22 MS. MILLIGAN: Hi, Tony, Trish Milligan
23 from the NRC. We have some questions for you about the
24 Unit 2 plant and whether or not it's actually lost
25 containment or not. We're ascertain pretty quickly

because they want to make a change in recommendations to American citizens in Japan for evacuation based on some dose calcs that we're doing.

So we kind of wanted to confirm some information because we're getting conflicting information now. So if you could give us a call back, 301-816-5419. Thanks.

(CONFERENCE CALL ENDED.)

0%CC@D6L15365094

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: This is the NRC Operations Center.

MALE PARTICIPANT: Hi, I'm trying to transfer to the Protective Measures Team.

MALE PARTICIPANT: This is it. Hello?

1 MALE PARTICIPANT: Hello?

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: I'm trying to get to
4 the Protective Measures Team.

5 MALE PARTICIPANT: This is the Protective
6 Measures Team.

7 MALE PARTICIPANT: Hi. I have a question.
8 I'm calling from the State Department, Japan Task
9 Force. I want to ask a question about a document that
10 just came over from NRC Ops. It's titled "U.S. NRC
11 Emergency Operation Center Status Update." And it's
12 got a timestamp of 0600 Eastern Time today.

13 The question is about a section at the
14 very end, which is "Protective Measures Team Worst Case
15 Analysis."

16 MALE PARTICIPANT: Do you guys have that?
17 I just came in as the day shift relief, so.

18 MALE PARTICIPANT: Yes, I think Greg Casto
19 would have it.

20 MALE PARTICIPANT: Greg, we've got to find
21 Greg. Okay, we just answer the phone. The actual
22 night team is in being briefed with our management. So
23 --

24 MALE PARTICIPANT: Can I leave a question
25 for you guys? I mean, because it's basically an

1 evolution of things over the course of the evening
2 question, (inaudible).
3 MALE PARTICIPANT: Well we're trying to
4 find the relief, maybe they have it in their hands.
5 Okay, go ahead, what's the question now?
6 MALE PARTICIPANT: (b)(5)
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21 MALE PARTICIPANT: Okay. We've got the
22 report that was sent.
23 MALE PARTICIPANT: Okay. Which is the
24 Protective Measures Team, worst case analysis?
25 MALE PARTICIPANT: That's right. The very

1 last part of the last page.

2 MALE PARTICIPANT: Right.

3 MALE PARTICIPANT: So this middle

4 paragraph here sounds like what we were told just over

5 the phone.

6 MALE PARTICIPANT: Right.

7 MALE PARTICIPANT: A couple hours ago.

8 MALE PARTICIPANT: To my knowledge we have

9 not re-run this. This was probably a 1:00 a.m. run.

10 MALE PARTICIPANT: The analysis here would

11 have concluded at 1:00 a.m., is that?

12 MALE PARTICIPANT: No. We did this run at

13 about 1:00 a.m. There was an earlier run at about

14 11:00, that the Chairman had. And that run had net

15 conditions that did not change, they did not take into

16 account the wind shift that was predicted at the time.

17 It was a straight-line, non-changing wind pattern

18 toward Tokyo.

19 And we did this run that's referenced on

20 the update that did show the wind shift. And we

21 compared those runs and the results of the wind shift

22 run is what shows up here.

23 MALE PARTICIPANT: So the steady wind

24 direction run was the first one?

25 MALE PARTICIPANT: Right, which had PAGs

exceeded at 50 miles. We can only go to 50 miles.

MALE PARTICIPANT: And now the second run, the 1:00 a.m. run, is the next sentence, it says for the wind shift scenario.

MALE PARTICIPANT: Correct.

MALE PARTICIPANT: Exceeded between 30 and 40 miles.

MALE PARTICIPANT: Correct.

MALE PARTICIPANT: Okay. Is if fair to say that the wind shift scenario is the more realistic of the two, or is that debatable?

MALE PARTICIPANT: Yes, it is. Because the wind has shifted, and is continuing to shift around to the point that, I think the eight hours is projected to be sending the plume offshore again.

MALE PARTICIPANT: Okay. And that describes, that eventuality describes the second wind shift scenario?

MALE PARTICIPANT: That's correct.

MALE PARTICIPANT: Do you guys have any plan to re-run any other scenario, or is this sort of the way things sit right now?

MALE PARTICIPANT: No, we would, if we get better data I think we would re-run. I mean we still are, we do not have confirmed information that there's

1 been an (inaudible) core event on Unit 2 or even
2 absolute certainty that there was a zirc fire at Unit
3 4.
4 MALE PARTICIPANT: This scenario that's
5 described here, does that include both of those -- I'm
6 sorry, that's right. So this scenario includes both
7 the loss of integrity of the vessel on Unit 2 and also
8 a fire?
9 MALE PARTICIPANT: No. This scenario was
10 only Unit 2, which does --
11 MALE PARTICIPANT: We sent three cases.
12 MALE PARTICIPANT: Oh we did? Okay. We
13 don't have the results of that data, or do we
14 (inaudible)?
15 (Crosstalk)
16 MALE PARTICIPANT: This guy is from the
17 State Department, Tokyo Task Force.
18 MALE PARTICIPANT: I'm here in D.C., I'm
19 the State Department Task Force here in D.C.
20 MALE PARTICIPANT: Okay. Got you.
21 MALE PARTICIPANT: Are you guys still
22 there?
23 MALE PARTICIPANT: Yes.
24 MALE PARTICIPANT: Okay. So I think I
25 understand which run is described by which. (b)(5)

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5 FEMALE PARTICIPANT: (b)(5)
6 (b)(5)
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8 MALE PARTICIPANT: (b)(5)
9 (b)(5)
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11 FEMALE PARTICIPANT: That's correct.
12 MALE PARTICIPANT: Okay. I think that's
13 probably the information I need for the moment. Can I
14 call you guys back in a few minutes if there's anything
15 else?
16 MALE PARTICIPANT: Sure.
17 MALE PARTICIPANT: Thanks very much.
18 (CONFERENCE CALL ENDED.)
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20 0%CGG8-_15365094
21 MALE PARTICIPANT: Good morning, NRC
22 Operations Center.
23 MS. TURK: Hi, this is Johanna Turk at the
24 DOE NIT. I just wanted to give you guys a courtesy
25 call that the next bridge line with the CM Home Team

1 will be at 1000 hours Eastern.

2 MALE PARTICIPANT: The next bridge line.

3 MALE PARTICIPANT: Could you confirm the

4 number?

5 MS. TURK: Yes, the phone number is 877-

6 336-1274. And the pin access is (b)(6)

7 MALE PARTICIPANT: Okay, let me repeat

8 what you just said. The bridge call will be 10:00

9 a.m., and the number is 877-336-1274?

10 MS. TURK: Yes.

11 MALE PARTICIPANT: And the pin is (b)(6)

12 MS. TURK: Pound at the end.

13 MALE PARTICIPANT: And a pound at the end.

14 And you are Johanna?

15 MS. TURK: Turk, T-U-R-K.

16 MALE PARTICIPANT: T-U-R-K. Okay, thank

17 you very much.

18 MS. TURK: No problem.

19 MALE PARTICIPANT: Okay, it's an hour and

20 a half.

21 (CONFERENCE CALL ENDED.)

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22 (CONFERENCE CALL INITIATED.)
23 FEMALE PARTICIPANT: -- be doing the model
24 out to the coast levels and whatnot.
25 MALE PARTICIPANT: Oh you mean to the West

1 Coast?

2 FEMALE PARTICIPANT: Right.

3 MALE PARTICIPANT: Right, well it's,

4 basically running on a larger grid is what it is, yes.

5 (Inaudible), it's running now for the Japan scale.

6 FEMALE PARTICIPANT: Okay.

7 MS. ROSENBERG: Good morning. This is

8 Stacey Rosenberg. I'm at the Nuclear Regulatory

9 Commission Headquarters, Protective Measures Team. Can

10 you hear me?

11 MALE PARTICIPANT: Yes we can. This is

12 (inaudible) Management Home Team.

13 MALE PARTICIPANT: That's who we thought

14 we were calling in to.

15 MALE PARTICIPANT: Right. Yes, we'll

16 start the call in a couple of minutes.

17 MS. ROSENBERG: Okay.

18 MALE PARTICIPANT: We'll hold on.

19 MALE PARTICIPANT: Thank you.

20 JIMMY: This is Jimmy (phonetic)

21 (inaudible), we're also on line.

22 (CONFERENCE CALL ENDED.)

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21 (CONFERENCE CALL INITIATED.)
22 MS. TURK: Hi, this is Johanna Turk, I'm
23 over at the NIT. Is anybody else on the line?
24 0%CJST2_15365094
25 MALE PARTICIPANT: Yes, (inaudible)

1 Management bridge line. We'll have the call in a
2 couple of minutes.
3 MS. TURK: Okay.
4 0%CK#)1_15365094
5 MS. MCCALL: Hi, this is Karen McCall
6 (phonetic).
7 (Nothing substantial to transcribe.)
8 0%CKJL15365094
9 FEMALE PARTICIPANT: Hey, while we're
10 waiting. Brian, are you on?
11 BRIAN: Yes, we're here.
12 FEMALE PARTICIPANT: I finally got these
13 plots that I think you're talking about, and I agree
14 that these numbers, something is not correct on these
15 numbers.
16 BRIAN: Yes, they're off by multiple
17 orders of magnitude.
18 MALE PARTICIPANT: Oh, this is (inaudible)
19 microcuries or whatever?
20 MALE PARTICIPANT: Yes.
21 MALE PARTICIPANT: Or maltocuries
22 (phonetic).
23 MALE PARTICIPANT: Yes, from the Japanese
24 model run. I have no idea how many orders of magnitude
25 we're off, but it is several.

1 0%CK%D3615365094 (No words to transcribe.)

2 0%CK)(GL15365094 (No words to transcribe.)

3 0%CK1D(615365094

4 FEMALE PARTICIPANT: Are we waiting for

5 someone?

6 FEMALE PARTICIPANT: We were kind of

7 wondering that ourselves. I think we're probably ready

8 to start.

9 MS. ROSENBERG: This is the Nuclear

10 Regulatory Commission Protective Measures Team. I'm

11 Stacey Rosenberg. Can we have a roster list? Can we

12 just go through who's on the line please?

13 (CONFERENCE CALL ROLL CALL)

14 0%CK4F8_15365094 (No words to transcribe.)

15 0%CK4MKL15365094 (No words to transcribe.)

16 0%CK6!9L15365094 (No words to transcribe.)

17 0%CK6DM615365094

18 MS. MCCALL: This is Karen again, are we

19 waiting for someone?

20 MS. ROSENBERG: This is Stacey Rosenberg

21 at the Nuclear Regulatory Commission. We just called

22 Naval Reactors and asked them to call in. They should

23 be calling in in just a moment.

24 MS. MCCALL: Okay.

25 0%CK8IDL15365094

1 MR. SMITH: Yes, this is Lee Smith from --

2 FEMALE PARTICIPANT: (Inaudible.)

3 MR. SMITH: Lee Smith from Naval Reactors,

4 signing on.

5 FEMALE PARTICIPANT: All right, I guess

6 we're ready to get started. Johanna, do you want to

7 give us the updates from the NIT?

8 MS. TURK: The updates that I have for you

9 from the NIT are, as of within the last hour Japan has

10 officially accepted our offers of assistance from AMS

11 and the CM Home Team, (inaudible) Response Team. Since

12 they are already en route they should be, they're

13 scheduled to land in approximately two hours. So

14 they'll be able to start working right away.

15 Other than that I just have a few

16 questions for some people. But I think I'll go ahead

17 and let the other teams give their updates and they

18 might answer my questions during that process. Maybe

19 Alexis, you want to take it?

20 MS. REED: Okay, I'll start. So we passed

21 on, the Home Team is working on the action items of

22 redoing the runs for an updated source term. Right

23 now, and maybe you can de-conflict some of this for us,

24 Johanna, I don't know if (inaudible) is on.

25 But they are working on the runs with the

1 intention to do the calculations for the regional stuff
2 that was requested by Bill Beal. Now that is the same
3 source term calculation that we will be using to look
4 at the depositions on the west coast, Hawaii, Alaska
5 and Guam. But we need to be sure what the priority is
6 there.
7 NARAC are you on?
8 MR. BASKETT: Yes, this is Ron Baskett in
9 NARAC. Yes, that's correct. We're running the
10 combined source term of Unit 2, 100 percent core with
11 Units 1 and 3 each 40 percent core melt scenarios.
12 Combined --
13 MALE PARTICIPANT: You're breaking up,
14 please start over.
15 FEMALE PARTICIPANT: I'm sorry can you
16 confirm, did you say 30 percent or 40 percent?
17 MR. BASKETT: Units 1 and 3 are at 40
18 percent core melt, which is a significantly smaller and
19 longer duration source term than the 100 percent core
20 melt. A 100 percent core melt in Unit 2 is going to
21 dominate probably within a few percent of the total
22 curie release.
23 And then we're releasing each of these at
24 the time when the explosions happened, because they're
25 staggered.

1 (Off microphone comments.)

2 MR. BASKETT: That run is in progress and

3 that's done on what we're calling a regional basis,

4 which includes the country of Japan. Basically the

5 scale will be from Fukushima to Tokyo, where the winds

6 are now, have been all day, from the north or

7 northeast. But they're turning to be from the east

8 later.

9 Well I say as we speak they're turning to

10 be from the east or onshore.

11 MS. TURK: And I know this is a

12 frustrating question for you, but do you have any idea

13 when that run will be completed?

14 MR. BASKETT: Well we're trying to have it

15 done in the next half or so, before the -- That's

16 Johanna?

17 MS. TURK: Yes.

18 MR. BASKETT: Okay.

19 MS. TURK: Yes, if it's done within the

20 next half hour that would be great. We have a briefing

21 up the food chain at 11:00.

22 MR. BASKETT: Right.

23 MS. TURK: So in connection with that.

24 The (inaudible) position to the U.S. Territories, I

25 believe, that work is being done out of Sandia, is that

1 correct?

2 MR. BASKETT: NARAC is running a model out

3 to the west coast which includes a surface deposition.

4 MS. TURK: Okay, so NARAC is doing both of

5 those?

6 MR. BASKETT: That's correct, yes.

7 MS. TURK: Okay.

8 FEMALE PARTICIPANT: Also, Johanna, I

9 spoke with Carrie (phonetic), I don't believe NARAC was

10 on at the time so you may want to confirm this, about

11 your question regarding whether or not the NARAC model

12 now includes some of the data that's been collected.

13 Sandia's take on it was that it definitely

14 includes the USS Reagan data that we received early on.

15 But they were unsure as to whether or not any of the

16 other data has been rolled into the model. So NARAC do

17 you want to address that as well?

18 MR. BASKETT: Yes, we looked at the

19 comparison, yesterday, with the 40 percent scenarios at

20 Reactors 1 and 3. So when we made that run the output

21 compared fairly well with data at the USS Regan. That

22 did not include the 100 percent release at Unit 2. It

23 was just the 40 percent scenarios at Units 1 and 3.

24 Did you catch that? That make sense?

25 MS. TURK: Yes. So once we get the next

1 run completed you'll take another look and see if it's
2 consistent with the Reagan data?
3 MR. BASKETT: We had not intended to
4 compare with the Reagan data, but we could, yes. It'll
5 be a lot larger. Model will be a over prediction of
6 the Reagan data.
7 MALE PARTICIPANT: This is the NRC. This
8 is the run you did earlier with the Reagan data from a
9 day or so ago? Or is it something new?
10 MR. BASKETT: That's correct, it's a day
11 or so ago. I don't have the exact time of the run but
12 (inaudible) --
13 MALE PARTICIPANT: Okay, so that was based
14 on the overhead plume on the Reagan a few days ago?
15 MR. BASKETT: That's correct.
16 MALE PARTICIPANT: You've already sent
17 that to us. We just want to confirm it's not anything
18 new.
19 MR. BASKETT: No, that's old, yes.
20 MALE PARTICIPANT: Thank you.
21 MS. TURK: Okay. Do you have plans with
22 any of the other field data? Has any other data been
23 passed on to you?
24 MR. BASKETT: Well we've looked at some of
25 the data (inaudible), though we don't have any plans to

1 use any of it now. A lot of the data are around the
2 reactors sites. Does not, and the time of that data is
3 basically upwind of where we would put the plume. So
4 it must be contamination being tracked or other than
5 atmospheric transport.
6 MS. TURK: I see.
7 MR. BASKETT: But yes it would be good to
8 have, basically have a technical sit down look and
9 compare, and talk about, which data is where and what
10 may make sense to compare with an atmospheric
11 calculation. We haven't had that discussion yet.
12 0%CK49#L15365094 (No words to transcribe.)
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15 MALE PARTICIPANT: This is the NRC. This
16 is the NRC, we had a question for NARAC.
17 MR. BASKETT: Yes, go ahead.
18 MALE PARTICIPANT: Okay. You say you're
19 using the Unit 2, 100 percent core. Is that based on
20 the source term that we submitted to you the other day?
21 And it's updating at the time?
22 MR. BASKETT: Yes, it is. Based on your
23 source term and just basically the timing. We released
24 it at the time when the Unit 2 (inaudible) explosion.
25 MALE PARTICIPANT: Okay. We're just

1 making sure you don't need anything else from us on
2 that one. And the same thing goes for the Unit 1 and
3 Unit 3 40 percent?
4 MR. BUCKETT: That's correct, that's what
5 we used for Unit 1 and 3 is 40 percent.
6 MALE PARTICIPANT: Very good. Thank you
7 very much.
8 MR. BUCKETT: Okay.
9 MS. TURK: I have a question for the NRC,
10 this is Johanna Turk from the NIT. There's a number
11 floating around here, a quote that the release rate is
12 0.5 percent of the fuel per day. And I was wondering
13 if you could confirm that for me?
14 MALE PARTICIPANT: No. That was the
15 original assumption we had when the containments were
16 intact. That's the design leak rate for the
17 containment. And that would be adjusted if we did have
18 a actual release rate that we could come up with,
19 either calculated or assumed from any measurements.
20 And so that is the design leak rate for
21 the containment when they were assumed to be intact.
22 So for Unit 2 I guess that wouldn't apply anymore.
23 MS. TURK: Okay. Okay, I understand.
24 MALE PARTICIPANT: Okay?
25 MR. BASKETT: Just to confirm again, but

1 that is the release that we used for Units 1 and 3.

2 MALE PARTICIPANT: Okay. We agree with

3 that because we haven't heard that they've been

4 compromised at this point.

5 MR. BASKETT: Concur.

6 MS. TURK: And it is 0.5 per day and not

7 per hour?

8 MALE PARTICIPANT: It is 0.5 percent per

9 day, yes. It's very small --

10 MS. TURK: Okay. In a couple of emails

11 there's been a little miscommunicating, so I just

12 wanted to make sure there.

13 MALE PARTICIPANT: Okay. We are working

14 on the Unit 4 spent fuel pool. And apparently that has

15 become, the fuel has become uncovered, at least to the

16 halfway point, from what we understand. And so we're

17 doing some dose modeling on that for Unit 4 fuel pool.

18 We are modeling it after the Peach Bottom scenario.

19 So if you see that that's, when we get

20 done with our run we will send it to NARAC as we

21 normally do. Okay?

22 MS. TURK: Okay. Thank you.

23 MR. BASKETT: What kind of scenario are

24 you using for the spent fuel pool?

25 MALE PARTICIPANT: We're assuming we have

1 a loss of water. And the fuel becomes uncovered.

2 MR. BASKETT: Okay. So that's

3 hypothetical?

4 MALE PARTICIPANT: Right.

5 (CONFERENCE CALL ENDED.)

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20 (CONFERENCE CALL INITIATED.)

21 MALE PARTICIPANT: NARAC did complete fuel

22 fire. The spent fuel pool fire and we haven't, you

23 know, since that confirmed that there was no

24 radioactivity from that fire at Unit 4, then we have

25 not released that run.

1 MR. SMITH: All right, this is Lee Smith
2 at Naval Reactors. I just want to make sure I
3 understand. Are you guys making assumptions that Unit
4 4, the spent fuel pool is half uncovered or we have
5 that information?
6 MALE PARTICIPANT: We have not had that
7 confirmed. We earlier had a notice that there was a
8 fire in the Unit 4 reactor building and we further had
9 that advised to us that that was some kind of lube oil
10 fire that burnt itself out, did not affect the spent
11 fuel pool.
12 But initial report or rumor we had was
13 that the pool had been draining so we went with trying
14 to come up with some numbers.
15 MR. SMITH: Understand. So we're trying
16 to get ahead of it. Not that we have concrete
17 information?
18 MALE PARTICIPANT: Right.
19 MR. SMITH: Understand. Thank you.
20 FEMALE PARTICIPANT: This is the NRC.
21 Does Naval Reactors have any data, radiological data,
22 from their stations?
23 MALE PARTICIPANT: We have radiological
24 data for a couple of plumes that passed our Yokosuka
25 site --

1 FEMALE PARTICIPANT: Which site? I'm
2 sorry.
3 MALE PARTICIPANT: Yokosuka. South of
4 Tokyo. Basically activity from the plume at a distance
5 of about 150 miles. And then that was approximately 2
6 X 10^{-8} microcuries per milliliter.
7 MALE PARTICIPANT: Could you repeat that?
8 MALE PARTICIPANT: It was, the actual
9 number that we calculated, was 2.4 X 10^{-8} microcuries
10 per milliliter.
11 MALE PARTICIPANT: Okay, I think that's
12 what we heard earlier, so that's good.
13 MALE PARTICIPANT: Okay. So no new
14 information there. No new activity levels. As was
15 stated earlier the plume is shifting to a westward
16 direction.
17 MALE PARTICIPANT: While we have you on
18 the phone. We had heard a request that there was a
19 need for dosimetry and for KI for some of the personnel
20 on the ships and possibly on the bases.
21 FEMALE PARTICIPANT: Yes, this came out of
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(b)(5)
23
24 TLDs be provided for personnel monitoring on all the
25 ships and also the aircraft carriers and any of the

1 aircraft that are flying in the area.

2 Because when they're landing back on the
3 ships they are contaminated and they have a concern
4 that they're not able to monitor personnel
5 individually. They have monitors, TLDs, on the ships
6 themselves that can serve as area monitors. And right
7 now they're just estimating each individual dose.

8 But they're in need of TLDs for personnel
9 and they've also requested KI as a backup precaution
10 for the those personnel on the ships.

11 MALE PARTICIPANT: Understand. We heard a
12 similar report. That came down here. I'll try to
13 clear up some of the confusion. We have these supplies
14 in the region already, on the aircraft carriers, that
15 are available for the flight crews. And personnel are
16 using those presently.

17 We are sending additional resources to the
18 region based on anticipating the needs for additional
19 resources. We've not made any requests outside of our
20 program for help with dosimetry for monitoring
21 equipment other than for some --

22 MALE PARTICIPANT: We're just confirming
23 that point.

24 MALE PARTICIPANT: -- other than
25 purchasing some new equipment for our use that's

1 similar to equipment that we already have.

2 MALE PARTICIPANT: Okay. We're just

3 passing on what we heard at a high-level meeting. And

4 we figured you had the resources to take care of it.

5 MALE PARTICIPANT: Understand. And so far

6 we feel like we're managing. But we had made a request

7 for some monitoring equipment yesterday based procuring

8 other resources we've turned off. So that could be

9 part of the confusion as well.

10 FEMALE PARTICIPANT: Well the question

11 came up because personnel that were at the bases had

12 had radiation monitors. These are civilian personnel

13 that are at the bases, have been in areas where

14 radiation monitors have gone off and there is no

15 dosimetry for, basically, members of the public.

16 So there was interest to finding out, with

17 a TLD, other than estimate of doses what those

18 potential exposures could be to civilians that are on

19 base as well. So you can confirm, Naval Reactors, that

20 you have TLDs and KI that will be available in these

21 areas?

22 MALE PARTICIPANT: I cannot confirm that

23 we have enough dosimeters for everybody. All of the

24 civilians on the base. I know we have a large supply

25 on the carriers in the region. We should have enough

1 KI for our people. And so that shouldn't be an issue.
2 But we are sending additional dosimeters,
3 some of which should have arrived this morning.
4 FEMALE PARTICIPANT: Okay. And it's our
5 understanding that CDC has stockpiles of KI if needed,
6 if there's a need to contact them for your folks.
7 MALE PARTICIPANT: Understand.
8 MS. REED: Do we have a point of contact
9 for the team when they land to find out if some of
10 these resources, specifically KI, are going to be
11 available for the daily teams that are coming into the
12 area?
13 MALE PARTICIPANT: I'm sorry. Could you
14 repeat the question, please?
15 MS. REED: We have daily teams that our
16 going to arriving in about an hour and a half
17 (inaudible) landing and fieldling whatever requests for
18 monitoring. We reached out to the CDC to find out
19 about KI for about 30 personnel for the (inaudible)
20 landings. Do you guys a resource we can tap into for
21 that? Does that make sense?
22 MALE PARTICIPANT: Understand. I'm
23 thinking about how I want to respond.
24 MS. REED: You don't have to respond, we
25 have about an hour and a half. But just something to

1 think about. We do have some other U.S. personnel that
2 are coming in.
3 And may, since Japan I guess now has
4 actually responded to the offer of assistance, they may
5 be asked to monitor in areas where there is actually
6 deposition other than U.S., where we don't expect there
7 to be deposition. So it would be nice to know if that
8 resource is going to be available to those guys.
9 MALE PARTICIPANT: Understand. Where are
10 the landing?
11 MS. REED: At Yokota.
12 MALE PARTICIPANT: I'll find out. Who
13 should I get in contact with?
14 MS. REED: You can call here. Do you want
15 to write down the phone number?
16 MALE PARTICIPANT: Sure.
17 MS. REED: 702-794-1646.
18 MALE PARTICIPANT: And who do I ask for?
19 MS. REED: You can ask for Alexis Reed.
20 MALE PARTICIPANT: Will do.
21 MS. REED: Thank you.
22 MS. TURK: Alexis, can you give me that
23 phone number again? Is that the phone number in a
24 different room of the rock where you're sitting?
25 MS. REED: It's just a desk phone here at

1 the rock that probably won't be occupied by a bridge
2 line. 702-794-1646.
3 MS. TURK: Okay. It's just because
4 sometimes, you know, the main line is busy.
5 MS. REED: Busy, yes.
6 MS. TURK: You said 1646?
7 MS. REED: Correct.
8 MALE PARTICIPANT: If you're done with
9 that conversation, this is NRC. We understand that
10 there's been a 30 plus man RAP team from DOE. It's in
11 Japan now and we've been wondering how we would be able
12 to get information, either through you to us or
13 directly from them, on any information that they may
14 gather in the field?
15 MS. REED: Okay. So that's what we were
16 just thinking about. They haven't actually arrived
17 yet. They're slated to arrive in about an hour and a
18 half.
19 MALE PARTICIPANT: Okay.
20 MS. REED: And it's not actually a RAP
21 team. What has been pre-positioned there is a Phase I,
22 CMRT Conflict Management Response Team. And so aerial
23 (inaudible) system resources as well. All coming in on
24 the same aircraft.
25 FEMALE PARTICIPANT: Would you repeat that

1 please?

2 MS. REED: So we have approximately 30

3 personnel that are deployed from (inaudible). They

4 are, it's a contingent of aerial measuring system

5 personnel with equipment should they be requested to do

6 aerial measuring. And a Phase I Conflict Management

7 Response Team and equipment. All arriving on the same

8 aircraft at Yokona Air Force Base.

9 MALE PARTICIPANT: And so when you

10 establish your means of communication would you please

11 let us know. And I assume they have satellite phones

12 or whatever they're going to call into you guys.

13 MALE PARTICIPANT: Yes.

14 MS. REED: Correct.

15 MALE PARTICIPANT: Keep us informed, would

16 you?

17 FEMALE PARTICIPANT: You're also welcome

18 to call the DOE NIT when you have questions like that.

19 MALE PARTICIPANT: Well that's what we're

20 doing I thought.

21 FEMALE PARTICIPANT: Yes. Well, so Alexis

22 who was just speaking is a different office.

23 MALE PARTICIPANT: Oh, okay. I'm sorry.

24 MALE PARTICIPANT: I have a question for

25 the NIT. Now that Japan has accepted our offer. Is

1 (inaudible) going to be the point of contact there to
2 coordinate that with the Japanese for the (inaudible).
3 FEMALE PARTICIPANT: Stand by. Let me
4 confirm that.
5 (CONFERENCE CALL ENDED.)
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20 (CONFERENCE CALL INITIATED.)
21 FEMALE PARTICIPANT: All right. The
22 situation is that Allen, he is already in country but
23 he's with USAID. So if you talk to him now, you know,
24 he's on the ground and available to speak. Dan
25 Blumenthal will be landing with the field team.

He will be the senior energy official. So once he's there he will be taking the lead in the field. That make sense?

MALE PARTICIPANT: Yes, I understand that point. But I was wondering who the point of contact was going to be to coordinate with the Japanese government as what their priorities are and what we're going to do first.

FEMALE PARTICIPANT: Okay. Just a second.

(Off microphone discussion.)

FEMALE PARTICIPANT: So yes, that will be Allen.

MALE PARTICIPANT: Okay. Thank you.

(CONFERENCE CALL ENDED.)

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(CONFERENCE CALL INITIATED.)

FEMALE PARTICIPANT: One final thing for CMHT. The EPA Monitoring Plan, you all been tasked to add a paragraph and RAP and (inaudible) capabilities. Do you have any TA on that?

MALE PARTICIPANT: I would daresay within

1 30 minutes. We're almost done, we're working it now.

2 FEMALE PARTICIPANT: Okay. Anything else?

3 Final --

4 MS. ROSENBERG: Yes, this is the NRC.

5 Does Naval Reactors have any other measurements from

6 any other stations? Any other recent measurements,

7 dose measurements?

8 MALE PARTICIPANT: No.

9 MALE PARTICIPANT: No, no other recent

10 measurements.

11 MS. ROSENBERG: Thank you.

12 MALE PARTICIPANT: Can I ask, what is the

13 plan for the Naval Reactor folks? Are the resources in

14 the area, are they tasked with recording more

15 monitoring measurements?

16 MALE PARTICIPANT: We have field

17 monitoring teams deployed to the naval installation and

18 various ships in the area. It's possible we're

19 maintaining the ships outside of the plume area so the

20 monitoring results are generally negative for those

21 units.

22 Some personnel are coming back with low

23 levels of contamination. They're being decontaminated,

24 which is similar to the reports on the mode of

25 operation for the past couple of days.

1 MALE PARTICIPANT: Okay. Thanks.

2 MS. ROSENBERG: This is Stacey Rosenberg

3 at the NRC again. We'd like to get any new data when

4 it becomes available. So is there a plan for another

5 conference call or an update?

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7 FEMALE PARTICIPANT: I suggest we go ahead

8 and set up a time for another conference call.

9 MS. TURK: Yes, definitely.

10 FEMALE PARTICIPANT: On a set schedule,

11 Johanna?

12 MS. TURK: Well we're sort of letting you

13 decide when you want to, I mean I think with the team

14 landing in an hour and a half, I think it makes sense

15 to maybe have another call an hour after that. Is that

16 reasonable to you?

17 FEMALE PARTICIPANT: It would be an hour

18 after, it'd be 11:00?

19 MALE PARTICIPANT: About 11 o'clock our

20 time.

21 MALE PARTICIPANT: Too early.

22 MALE PARTICIPANT: Pacific daylight time?

23 MS. TURK: I'm looking at my clock with

24 the 14 other times here.

25 FEMALE PARTICIPANT: That would be 2

1 o'clock our time.

2 MALE PARTICIPANT: 2 o'clock eastern

3 sounds appropriate to us.

4 MS. TURK: Yes. So 1400 eastern, 1100

5 pacific?

6 MALE PARTICIPANT: Yes.

7 MS. TURK: One final note, another final

8 note for me. We've just gotten an email come through

9 regarding dosimetry onboard the Reagan. They say that

10 they have 50 TLDs on board and another 500 en route

11 from PACOM. They are requesting more TLDs from DOD.

12 MALE PARTICIPANT: On the Reagan?

13 MS. TURK: Yes, they said that they have

14 50 on board already.

15 MALE PARTICIPANT: That sounds like the

16 additional TLDs that are being sent there. And they

17 have a store of them already on board. So it sounds

18 like what you're seeing is the re-supplies that are

19 going out to them.

20 MS. JONES: This is Cindy Jones at NRC

21 again. It's our understanding that there's other ships

22 in the area. We were getting a fax from a ship with

23 radiation data last night. They would also need

24 dosimetry. So we're looking at thousands of TLDs, not

25 hundreds, is that correct? For the personnel on those

1 ships.

2 MALE PARTICIPANT: We have thousands of

3 TLDs en route.

4 MS. JONES: So this is NRC again. Back to

5 the other question that was raised earlier. Can we

6 confirm, in a day, that it's been received by the

7 individuals so that we can process off our list for the

8 time being that these individuals can get individual

9 personnel monitoring?

10 MALE PARTICIPANT: We can report back on

11 that on the 2 o'clock call.

12 MS. JONES: Thank you.

13 MALE PARTICIPANT: Okay. You have

14 something else?

15 MS. JONES: I have one thing. This is

16 Cindy Jones from the NRC again. One of the requests

17 that came out this morning was that NRC, along with

18 NARAC and any other agency that's also doing the dose

19 estimates that would support the evacuation of

20 protective measures Japan has done, share that

21 information with each other.

22 Is there a way that we can provide that

23 information? And who would that be in the other

24 agency? I think they just want to make sure that we're

25 on the same sheet of paper and that --

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MR. SMITH: This is Lee Smith at NR. We have issued precautionary measures for personnel at our Naval installation, for sheltering school children in place and minimizing time outdoors and securing ventilation.

MS. TURK: (b)(5)

(b)(5)

So that when the press release is issued today from NRC and from DOE or others that says we support the protective measures that Japanese have taken with evacuation and that it's adequate for their citizens and ours we have that information shared.

MR. SMITH: Let me say it another way. Let's continue, when NARAC gets their runs completed based on the source terms that we have provided, that we share your runs with us, that we can confirm that we are in agreement with the results. Does that make sense?

FEMALE PARTICIPANT: Chairman wants it this morning.

MALE PARTICIPANT: Understand.

1 MR. SMITH: I know, and we would like to
2 have your runs this morning, if possible, if you can
3 get them done.
4 (Crosstalk)
5 MR. SMITH: What?
6 MS. TURK: Yes and since we've been on the
7 phone for awhile, does NARAC have an update on --
8 MALE PARTICIPANT: I can check. Just give
9 me a second here. Be right back.
10 MS. TURK: Sure.
11 MR. SMITH: The comments on the runs are
12 for NARAC, correct?
13 MS. TURK: Yes.
14 MALE PARTICIPANT: Yes, that's correct.
15 MR. SMITH: Understand.
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17 RON: This is Ron at NARAC, yes we've
18 finished the run that was requested by the NIT and it's
19 in technical review now.
20 FEMALE PARTICIPANT: Okay. Excellent.
21 FEMALE PARTICIPANT: (Inaudible.)
22 MR. WATSON: No, we'll send it on when
23 it's complete, thank you.
24 RON: Yes, NIT has that release
25 responsibility.

1 MR. WATSON: Okay. Well, we're looking
2 forward to seeing it when they get done with it.
3 RON: And how is this speaking, please?
4 MR. WATSON: This is Bruce Watson, NRC.
5 RON: Okay.
6 FEMALE PARTICIPANT: Also, can NARAC send
7 NRC, through email, the latest meteorological data?
8 RON: Right, that's the second priority.
9 We should have that forecast run done shortly.
10 FEMALE PARTICIPANT: Great, thank you.
11 RON: Sure.
12 MS. TURK: Okay. If there are no other
13 redirects we can all get back to our other jobs. But
14 yes, NARAC, as soon as you're finished with the
15 technical review, if you could send that on to NIT Ops
16 within the next couple of minutes that would be great.
17 RON: Right, I think it's been shared with
18 NIT Ops right now.
19 MS. TURK: Okay. So we should have an
20 email already?
21 RON: Yes. I mean it's on the web. Okay.
22 MS. TURK: Or it's on CMweb?
23 RON: Yes, it should be posted on the
24 CMweb.
25 MS. TURK: Okay. Anyone else?

1 MR. WATSON: We're finished here at NRC,
2 see you at 2:00.
3 FEMALE PARTICIPANT: Okay, thank you very
4 much.
5 (CONFERENCE CALL ENDED.)
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20 (CONFERENCE CALL INITIATED.)
21 MALE PARTICIPANT: NRC Operations Center,
22 Protective Measures Team.
23 MR. DUDAC: Hello, this is Micahel Dudac,
24 down at USAID. To whom am I speaking? Hello?
25 MR. WATSON: Chris Watson.

1 MR. DUDAC: Hello?

2 MR. WATSON: Hello.

3 MR. DUDAC: Sir?

4 MR. WATSON: I'm talking.

5 (CONFERENCE CALL ENDED.)

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21 (CONFERENCE CALL INITIATED.)

22 MR. WATSON: NRC Operations Center.

23 Protective Measures Team. This is Bruce Watson.

24 MR. DUDAC: Hi, Bruce, this is Michael

25 Dudac.

1 MR. WATSON: Sorry, but we were talking
2 but we weren't getting through to you.
3 MR. DUDAC: Yes, sorry. I don't know what
4 happened. Getting a couple of questions down here. Is
5 Cindy or Trish Milligan there?
6 MR. WATSON: Cindy's right here.
7 CINDY: I'm right here.
8 MR. DUDAC: Hi, Cindy.
9 CINDY: Hi, Mike.
10 MR. DUDAC: We got some people active,
11 they're trying to go out and find KI. Do you have a
12 specific vendor that we deal with?
13 CINDY: Actually CDC has the national
14 stockpile. I would contact Charlie Miller at CDC.
15 Charles Miller.
16 MR. DUDAC: All right.
17 MALE PARTICIPANT: (Inaudible.)
18 MR. DUDAC: Is that who's asking. Charlie
19 Miller?
20 CINDY: Yes.
21 MR. DUDAC: And do yo have contact
22 information for him right now?
23 CINDY: I'm going to look it up right now.
24 JASON: Thanks, Cindy, it's Jason.
25 CINDY: No problem. How you doing?

1 JASON: I'm fantastic.

2 CINDY: Good.

3 JASON: How are you guys doing there?

4 CINDY: Good.

5 JASON: Heard you guys are actually

6 getting some information you can analyze?

7 CINDY: There we go. So yes that's right.

8 So Dr. Charles Miller. His phone number is 770-488-

9 3725.

10 JASON: All right, so it's 770-488-3725?

11 CINDY: Right. He's at CDC in Atlanta.

12 You want his email address too?

13 JASON: Sure.

14 CINDY: It's C-Y-M-3. Charlie, Yellow,

15 Miller, 3, at cdc.gov.

16 JASON: All right.

17 CINDY: Very good.

18 JASON: Did you talk to Mr. Webb from

19 FEMA?

20 CINDY: I gave that over to Beth Reed and

21 she's contacting him now.

22 JASON: All right, great. Sounds good.

23 Thank you.

24 CINDY: Very good. Thanks a lot.

25 JASON: Thank you.

1 CINDY: What's your phone number down
2 there, by the way?
3 JASON: You got to call us on our personal
4 cells. We don't have a direct line. We'd have to go
5 run in this room once in awhile.
6 CINDY: Okay. What's your personal cell
7 and I'll mark it on this master list here?
8 JASON: Yes. Jason's is (b)(6)
9 CINDY: Hold on, (b)(6)
10 JASON: (b)(6) And Michael's is (b)(6)
11 (b)(6)
12 CINDY: Very good.
13 JASON: And we can be of resource. I mean
14 we're face-to-face with DOE, HHS, state, FEMA, I mean
15 we were face-to-face with all of these folks down here,
16 so if you need anything at all.
17 CINDY: Will do.
18 JASON: All right.
19 CINDY: Thank you very much.
20 JASON: All right, thanks.
21 CINDY: Okay. Bye.
22 (CONFERENCE CALL ENDED.)
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22 (CONFERENCE CALL INITIATED.)
23 MS. ROSENBERG: NRC Protective Measures
24 Team, Stacey Rosenberg.
25 TONY: Hey, Stacey, its Tony calling.

1 MS. ROSENBERG: Hey, Tony, how are you
2 doing?
3 TONY: Fine, thanks. I've got a question
4 for you. Are you guys getting these emails of what we
5 think are the Japanese equivalent of RASCAL calcs?
6 We're getting them dumped on us on an hourly basis.
7 Are you guys seeing this stuff?
8 MS. ROSENBERG: I'm not seeing it.
9 TONY: I'm going to go to the Task Force
10 Ops Center and ask them to give you guys a massive data
11 dump on this stuff. Now I'm not sure what the hell
12 this stuff is, it's all in Japanese. I mean I can read
13 numbers and stuff. But I don't know what it is
14 exactly, so keep that as a grain of salt.
15 MS. ROSENBERG: All in Japanese.
16 TONY: I want to dump this stuff on you so
17 you guys can start looking at it. I'm going to ask
18 them to add you guys to the email distro so you'll get
19 it. When we get some of our Japanese speakers back in
20 we can translate the headers and footers and whatnot on
21 these plots and it'll make a lot more sense I presume.
22 You know, I can't open the damn things on
23 webmail because, you know, the damn attachments are
24 blocked believe it or not. But I'll ask about that one
25 later. Anyway I just wanted to make sure you were

1 seeing this and I guess you're not.

2 MS. ROSENBERG: Yes, we're not seeing it.

3 TONY: So I'll ask you to give you guys a

4 data dump and add you to the distro. What's a good

5 email address there?

6 MS. ROSENBERG: Bruce, what email should

7 he send it to?

8 BRUCE: He can send it to PMT, what is it

9 19?

10 FEMALE PARTICIPANT: PMT12.

11 MS. ROSENBERG: Okay, PMT12.

12 BRUCE: And also PMT01 and if they want to

13 they just send it to the HOO as a backup.

14 TONY: Don't I have to add like a .hoc or

15 something like that?

16 MS. ROSENBERG: PMT12.hoc@nrc.gov.

17 TONY: Right. Okay, now what's the HOO

18 address again? Just because I don't remember what that

19 is.

20 MS. ROSENBERG: What do you mean new

21 address?

22 TONY: What's the HOO's email address?

23 BRUCE: HOO.hoc@nrc.gov.

24 TONY: That makes an amazing amount of

25 sense. Okay. Thanks. Like I said I'm not sure what

1 this stuff is. I think it's like Japanese RASCAL
2 stuff.
3 BRUCE: Oaky.
4 TONY: I'll dump it on you and maybe you
5 guys can make heads or tails out of it, all right?
6 MS. ROSENBERG: Okay.
7 TONY: Thanks, I appreciate it.
8 MS. ROSENBERG: Thanks, Tony.
9 TONY: Bye.
10 (CONFERENCE CALL ENDED.)
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22 (CONFERENCE CALL INITIATED.)
23 MR. MACE: Casey Mace (phonetic).
24 MS. SCHWARTZMAN: Casey this is Jen
25 Schwartzman from the NRC Operations Center calling

1 back.

2 MR. MACE: Thanks very much.

3 MS. SCHWARTZMAN: Got Bruce Watson here,

4 he's a health physicist and he'll be able to tell you a

5 heck of a lot better than I can about your question.

6 MR. MACE: Thank you very much.

7 MR. WATSON: And your question is

8 pertaining to what the threshold for --

9 MR. MACE: Yes when we start

10 characterizing radiation level and risk to human

11 health.

12 MR. WATSON: Well, there's a couple ways

13 to review that. And one is that the annual limits for

14 a whole body total effective dose equivalent, which is

15 basically a whole body dose, is 5 rem per year. That's

16 what in your regulations.

17 MR. MACE: Okay. What's a rem? I mean at

18 the radiation levels I'm seeing coming out of Japan are

19 quantified in microsieverts.

20 MR. WATSON: Sieverts, yes. One sievert

21 is 100 rem. Okay? And they just took my little sheet

22 here. And when you see microsievert?

23 MR. MACE: Yes.

24 MR. WATSON: One microsievert is 0.1 rem.

25 And so 100 microsieverts is ten rem. Just to give you

1 a couple of points, ten millisieverts is one rem.

2 MR. MACE: Okay. So five rem is 50 micros

3 --

4 MR. WATSON: Yes, micro. No milli.

5 Excuse me, millisievert.

6 MR. MACE: Oh, milli? Okay. So 5,000

7 micros? Five rem equals five -- Okay.

8 MR. WATSON: So five rem is 50

9 millisieverts.

10 MR. MACE: And 4,000 microsieverts,

11 correct?

12 MR. WATSON: Okay, does that make sense?

13 MR. MACE: Yes.

14 MR. WATSON: Okay. And that's the

15 conversion to that. Now the numbers we've put out and

16 the EPA and I guess we'll call it the U.S. Protective

17 Recommendations are that we consider evacuation or

18 protective actions at one rem (inaudible). And 5 rem

19 to the thyroid.

20 And so that's what you'll see as some of

21 the criteria for evacuation of the population.

22 MR. MACE: Okay.

23 MR. WATSON: Okay. Another thing is that

24 we, the NRC, also make recommendations for evacuation

25 on plant conditions. And so that's pretty much what

1 the Japanese did. Well, it's all my assumption.

2 They looked at things, said things are

3 going bad, let's evacuate the people. Before they

4 really had any significant releases, which is

5 appropriate, we agree with them.

6 MR. MACE: Okay.

7 MR. WATSON: Okay? Any questions?

8 MR. MACE: So when we're looking at dose

9 readings, at what point should we get concerned?

10 MR. WATSON: Well it's just not the does

11 readings, but for how long they go one. So like I said

12 one rem whole body and 5 rem thyroid you may see both

13 of them reported. That's when we start wondering

14 whether our protective action recommendations are

15 effective.

16 And that's why they expanded things out to

17 shelter some remainder and that kind of stuff.

18 MR. MACE: Okay.

19 MR. WATSON: All right? Anything else?

20 MR. MACE: Do you guys at the NRC have any

21 assessment yet, you know, there was a spike overnight

22 in Japan of radiation to 400 millisieverts?

23 MR. WATSON: We have heard that there was

24 a loss of water to the Unit 4 spent fuel pool. And

25 that spike, which is radiation that's local, is related

1 to that uncovering of that fuel, we think. Okay.

2 MR. MACE: Okay. The Japanese said they

3 believe it's debris from the reactor explosion, or the

4 reactor building.

5 MR. WATSON: Well we've had multiple

6 explosions. So the --

7 MR. MACE: Yes, the Chief Cabinet

8 Secretary said it may have come from debris that was

9 scattered at the explosion of the reactor building, not

10 the reactor itself. So --

11 MR. WATSON: That's probably true. But we

12 don't know for sure, but we think so.

13 MR. MACE: Okay. So it's either that or

14 it's spent fuel pool or both?

15 MR. WATSON: Well, may have they lost some

16 of the water level to the spent fuel pool because of an

17 explosion. We know they had a small fire that was from

18 some lube oil. And so we don't know all the details.

19 MR. MACE: And the reason it's no longer

20 at those levels is because, if what we assess as the

21 reason for the spike was the loss of water at the spent

22 fuel pool, then the reason for it not staying as high

23 as it was is because the water level has risen in the

24 pool?

25 MR. WATSON: We don't know. That 40 rem

1 number that you have, for 400 microsieverts, is a very
2 local, specialized spot on the one side of the reactor
3 building below the spent fuel pool. We don't know
4 exactly where it was taken. But we haven't heard any
5 changes. Noone's going in to do any measurements at
6 this point.
7 MR. MACE: But they released data at 3:30
8 a.m. that at the gate of the facility they had readings
9 of 11,000 microsieverts.
10 MR. WATSON: Yes, we believe that may have
11 been associated with the uncovering of the fuel
12 immediately and then it settled down to so much lower
13 numbers. Okay?
14 MR. MACE: Okay. Got it. Thanks.
15 MR. WATSON: All right. Thank you.
16 MR. MACE: All right. Bye.
17 (CONFERENCE CALL ENDED.)
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22 (CONFERENCE CALL INITIATED.)

23 MR: KRAUS: This is Terry Kraus, is Bruce

24 Watson there?

25 MR. WATSON: Yes, Terry, this is Bruce

1 Watson.

2 MR: KRAUS: Hi, Bruce. I'm with FRMAC, CM
3 Home Team Assessment scientist. And I was wondering if
4 there's any way we could get access to your NRC data
5 products so we can compare?

6 In the last teleconference we discussed,
7 you know, sharing the NARAC products with you guys so
8 you can look at them to ensure consistency. Is there
9 any way we can get access to your products?

10 MR. WATSON: Well we send you our data.
11 Maybe we could talk after this what you need, rather
12 than hold up everybody else. But did you get enough
13 assumptions and what we put in for the last run we gave
14 you?

15 MR: KRAUS: Yes, well I think yes we're
16 working with NARAC to use the source term. But yes,
17 let's wait until after.

18 MR. WATSON: Okay.

19 MR: KRAUS: Okay, thanks.

20 MR. WATSON: Terry, do you have a direct
21 number for us to call?

22 MR: KRAUS: I only had one but there's
23 never an answer. Oh, for you to call me?

24 MR. WATSON: Yes.

25 MR: KRAUS: Area code 505-844-6954.

1 MR. WATSON: Okay. 505-844-6954.

2 MR: KRAUS: Correct, thank you.

3 MR. WATSON: All right, we'll call you

4 after this.

5 MR: KRAUS: All right. Great.

6 FEMALE PARTICIPANT: Does anyone have an

7 update on the Japanese plots?

8 FEMALE PARTICIPANT: What kind of update

9 do you want? Do you want to just know our assessment

10 of those plots?

11 FEMALE PARTICIPANT: Did you guys complete

12 the assessment?

13 FEMALE PARTICIPANT: Well, what they asked

14 for was for us to relate what we're seeing on those

15 plots to some kind of standard abject source term. I

16 called Johanna to be sure that she kind of was

17 disseminating the information that, our typical IPX

18 source terms are not at all based on any kind of

19 expected release from a plant accident.

20 They are created to specifically drive

21 play outside of the EPZ 14 so that they can meet their

22 FEMA requirements. So I'm a little loathe to put

23 together something that shows that data in comparison

24 to IPX data. Because it's going to be kind of

25 misleading.

1 So I told her that we are reaching out to
2 NARAC to find out, do they have a standard source term
3 for an expected reactor accident that they would like
4 us to use? And if so then what we're going to do is
5 we're going to create a product that will show for a
6 standard reactor accident in the U.S., where the dose
7 rates would be expected to extend.
8 And then they can use that for a point of
9 comparison with the Japanese plots. Do you think
10 that'll be sufficient for them?
11 FEMALE PARTICIPANT: Yes, that'll be fine.
12 FEMALE PARTICIPANT: So we're working on
13 it.
14 FEMALE PARTICIPANT: Okay.
15 0%CS5QA615365094
16 FEMALE PARTICIPANT: Did we get an update
17 on the (inaudible), the maps for all the U.S.
18 facilities in Japan? Keith was working on it.
19 MALE PARTICIPANT: We're checking it now.
20 MS. ROSENBERG: This is Stacey Rosenberg
21 on the Protective Measures Team at the NRC. Can we go
22 around and just see who's on the call now?
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25 0%CS9IOL15365094 (No words to transcribe.)

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22 (CONFERENCE CALL INITIATED.)

23 MR. KRAUS: This is Terry Kraus again for

24 NRC. Regarding the spent fuel source term, is that

25 confirmed to have been released or is this postulated?

1 MALE PARTICIPANT: This is postulated
2 because we don't know the exact condition. What we did
3 was we updated for the inventory of actual number of
4 fuel bundles believed to be in the pool. And we
5 extended the release time from 13 hours to 24 hours.
6 So we just assumed it all melted.
7 MR. KRAUS: Okay. And it's not likely to
8 get any confirmation one way or another in the near
9 term if this actually happened, correct?
10 MALE PARTICIPANT: Right, other that we'll
11 see some more exposures out in the environment.
12 MR. KRAUS: Right.
13 MALE PARTICIPANT: There was some talk of
14 bringing in some water to add to the pool. And so
15 hopefully that will happen.
16 MR. KRAUS: Okay. Thank you.
17 (CONFERENCE CALL ENDED.)
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21 0%CSBXH_15365094
22 (CONFERENCE CALL INITIATED.)
23 MR. MORGAN: This is Ron Morgan from LANL,
24 also for the NRC. Has a fire been confirmed in the
25 spent fuel pool?

1 MALE PARTICIPANT: We never got any
2 confirmation of any fire in the spent fuel pool. What
3 we did hear was that there was a lube oil fire
4 associated with some pump near the spent fuel pool,
5 that burnt itself out.
6 MR. MORGAN: Was there any indication of a
7 loss of water in the pool?
8 MALE PARTICIPANT: We believe that to be
9 the case because we received the one dose rate reading
10 between unit 3 and 4 of 40 rem per hour. Which we
11 believed could be from skyshine from the pool if the
12 water levels went significantly down and uncovered
13 fuel.
14 FEMALE PARTICIPANT: Can you repeat those
15 readings?
16 MALE PARTICIPANT: We had it reported this
17 morning that there was a 40 rem per hour dose rate
18 between Unit 3 and 4. We have no idea exactly where
19 that location. But we assume it's a ground level dose
20 rate measurement. And we believe that based on the
21 report, or rumor, that they had lost water from the
22 pool and that they had uncovered the spent fuel.
23 That this reading was probably skyshine
24 from the pool radiation going straight up in the sky
25 and bouncing back down. We have no other information

1 to correlate that to, other than potentially there may
2 be some streaming from Unit 2 that we wouldn't be aware
3 of.
4 MR. MORGAN: Can you locate the spent fuel
5 pool for me? I'm looking at a picture here and I'm not
6 sure if the spent fuel pool is in the reactor building
7 or immediately to the right.
8 MALE PARTICIPANT: The spent fuel pool is
9 on the upper level of the reactor building. The top of
10 that pool is at the bottom of the metal, approximately
11 at the bottom of the sheet-metal roof. And it's the
12 same --
13 MR. MORGAN: Okay. So it's exposed now?
14 MALE PARTICIPANT: Yes. Well, is the roof
15 still on Unit 4?
16 MR. MORGAN: Not for 4, yes that's right
17 not for 4. But for 1 and 3 it would be exposed.
18 MALE PARTICIPANT: Right those two spent
19 fuel pools are exposed to air. Unit 4 still has its
20 roof, but if they lost water level the shine from
21 radiation levels would be intense and that's the one we
22 contribute the 40 rem to, 40R per hour.
23 MR. MORGAN: Can you tell me if the Number
24 2 Reactor building is still intact?
25 MALE PARTICIPANT: As far as I know the

1 actual structure of the building is intact on Unit 2.
2 But we did hear that there was some rupture or whatever
3 of the containment that was releasing materials out.
4 MR. MORGAN: Right the (inaudible) or the
5 suppression pool ruptured?
6 MALE PARTICIPANT: Right, yes.
7 MR. MORGAN: Okay. Thank you.
8 MALE PARTICIPANT: Yes, 1 and 3 are
9 missing the roofs.
10 MR. MORGAN: Right.
11 (CONFERENCE CALL ENDED.)
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22 (CONFERENCE CALL INITIATED.)
23 MR. WATSON: This is the NRC Operations
24 Center. We have a few questions for NARAC. We were,
25 and I guess the NIT. This morning's call we were

1 anticipating getting your runs from overnight on both
2 the spent fuel pool and I guess the other, the 100
3 percent and the updates of the, the 100 percent of Unit
4 and I guess any updates of I guess of Unit 1 and 3 you
5 had for 40 percent core melt.
6 We haven't seen those yet. And I guess
7 secondly we wanted to confirm that you guys have, from
8 what our meteorologists are telling us, that there is
9 no true site meteorological data coming in because the
10 MET tower onsite quite working. So that's pretty much
11 our two questions right now.
12 MALE PARTICIPANT: Is there anyone from
13 NARAC that copied that request?
14 STEVE: Hello. This is Steve, just got
15 back from NARAC. I just caught the end of that. Could
16 you please, I'm sorry, repeat that?
17 MR. WATSON: Yes at this morning's call at
18 10:00 a.m., we were told that you had done some
19 additional runs. I think the 100 percent core melt for
20 Unit 2. And possibly Unit 1 and Unit 3, 40 percent
21 core --
22 STEVE: Correct.
23 MR. WATSON: Okay. And I don't know if
24 you did with the spent fuel pool, but --
25 STEVE: No, we just got the source term

1 for the spent fuel pool.

2 MR. WATSON: Okay, because we sent one

3 last night, but we revised it this afternoon,

4 obviously.

5 STEVE: Okay. What is the status of that?

6 I mean is there water in the spent fuel pool? You

7 know are they assuming that some of that is being

8 released now?

9 MR. WATSON: We believe that they lost

10 some water and they're going to make attempts to add

11 water to the spent fuel pool. But obviously we think

12 they obviously uncovered some of the fuel.

13 STEVE: Okay.

14 MR. WATSON: Okay? But we're speculating

15 as to what really is going on because we don't get any

16 hard data.

17 STEVE: Understand. This is kind of

18 designed basis spent fuel pool over the term?

19 MR. WATSON: Yes.

20 STEVE: Okay. We just got that.

21 MR. WATSON: Okay. What we sent you is

22 based on what information we were able to gather that's

23 there are 1,331 bundles in the pool and I think there's

24 180 of them were freshly, or just placed in there 105

25 days ago. So that's reflected in our source term.

1 STEVE: Okay. Great.

2 MR. WATSON: Okay?

3 STEVE: Okay. Thank you.

4 MR. WATSON: And now the second thing that
5 we wanted to confirm was that we understand that the
6 onsite meteorological data, maybe the tower on site,
7 wherever you were getting data locally there, has died
8 and they're now using other means?

9 STEVE: I can check on that. I believe
10 that's correct. I can find out where we're getting
11 that.

12 MR. WATSON: Okay. So we're looking for
13 your runs on the other unit and then confirmation on
14 your sources met data.

15 STEVE: Okay. Will do. And there a phone
16 number I can call you directly?

17 MR. WATSON: Yes, it's 301-816-5414.

18 STEVE: Okay. I'll get back to you. And
19 your name is?

20 MR. WATSON: Bruce Watson.

21 STEVE: Oh, Bruce. Got you, okay.

22 MR. WATSON: Yes we're going to have a
23 shift turnover at 3:00, so --

24 STEVE: Well I'm going to get back to you
25 ASAP.

1 MR. WATSON: Okay. Thank you.

2 STEVE: Thanks.

3 (CONFERENCE CALL ENDED.)

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22 (CONFERENCE CALL INITIATED.)

23 MS. REED: Okay. This is Alexis from

24 (inaudible). I wanted to give a quick update to the

25 Home Team assessors about this RAMS data. I have

1 finally gone through and updated all of the times from
2 the data that we were dealing with this morning.
3 So I'm going to go ahead and push that to
4 RAMS and then I"m going to delete all the points that
5 you guys put in.
6 So if you see some funny things going on
7 that's what going on. I'm going to re-upload these 50.
8 Once I confirm that they've been uploaded with the
9 proper times we're going to have the BLTs go through
10 and delete the previous 50, does that make sense?
11 MALE PARTICIPANT: Yes, Alexis, that's
12 fine. Are you going to review and approve them from
13 your end?
14 MS. REED: Sure, I can do that.
15 MALE PARTICIPANT: Okay. All right,
16 otherwise we'd be able to help you out. But if you can
17 handle that that's fine.
18 MS. REED: Okay. Thanks.
19 0%CSO-0_15365094
20 MALE PARTICIPANT: So Steve, NARAC. Based
21 on what Alexis just said we're going to have some
22 additional data in RAMS that if you guys could work
23 into your models, that would be great.
24 (CONFERENCE CALL ENDED.)
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22 (CONFERENCE CALL INITIATED.)

23 MR. LUBINSKI: This is John Lubinski, may

24 I help you?

25 MR. TRAPP: This is Jim Trapp from Japan.

1 MR. LIBINSKI: Mr. Trapp, how are you?

2 MR. TRAPP: Doing good this morning. How

3 are you?

4 MR. LIBINSKI: Oh, we're doing great this

5 evening.

6 MR. TRAPP: Understood.

7 MS. REED: (Inaudible) when you get back

8 here.

9 MR. LIBINSKI: Yes, we hope you're taking

10 a good journal so you can remember all these great

11 stories. So what's up?

12 MR. TRAPP: I had a text message to call

13 the PMT. It's my first chance with the PMT and I

14 definitely wanted to give you a call.

15 MS. REED: Oh, I appreciate it. Steve

16 Lavie is here and I think you answered the question

17 that we had over email.

18 MR. LAVIE: Let me give you the background

19 on the question though, Jim. In case somebody tries to

20 figure out why we're asking. We got data yesterday

21 from the Navy from an aircraft carrier 100 miles

22 offshore.

23 MR. TRAPP: Yes.

24 MR. LAVIE: That said 0.6 millirem per

25 hour.

1 MR. TRAPP: Yes, I know. Okay. What does
2 that tell you?
3 MR. LAVIE: And what we've been hearing
4 from the Japanese are all their data are 100 times
5 normal, three times normal with everything else. And
6 then subsequent to that we realized that all the data
7 they've been giving us are upwind.
8 MR. TRAPP: Yes, okay.
9 MR. LAVIE: That 0.6 number 100 miles out
10 isn't quite jiving with three times normal at the site.
11 MR. TRAPP: You know, I do believe you're
12 on to something.
13 MR. LAVIE: And I'm just curious as to why
14 noone else has asked this question.
15 MR. TRAPP: You know, Steve, up to
16 yesterday I had trust in validity of information
17 provided to me and that kind of got shattered a little
18 bit for me yesterday.
19 MR. LAVIE: Yes.
20 MR. TRAPP: You know what I would
21 recommend is -- The other thing, Steve, I don't know if
22 you've seen it, but there's a, my Japanese isn't good,
23 but it's like the Yokosuka base. I don't know if you
24 saw the data.
25 We did get some really good data from this

1 base that's maybe 80 miles south of Tokyo. And I sent
2 an email in last night with the numbers. Because it
3 was actually, it's like a Navy HP. And this was
4 yesterday's morning drill.
5 Is the Admiral down there wanted to
6 shelter children and wives of our service people. And
7 we were running around like crazy because what the guy
8 was reading, oh, I got it right here. Did you get my
9 email or no?
10 MR. LAVIE: I don't think we did, Jim.
11 MS. REED: Say that again?
12 MR. LAVIE: No we the email we got is Adam
13 from Yukosama.
14 MR. TRAPP: Y-O-K-O-S-U-K-A.
15 MR. LAVIE: Yes. We've got it, Jim, we
16 came on about two hours ago and we got a turnover about
17 this that the Navy base had some data. And we're
18 tracking down, it's in a pile somewhere, but maybe if
19 you could re-email it that would be great.
20
21 MR. TRAPP: Yes, I mean I could try to re-
22 email. But, Steve, you're going to be very interested
23 in this. Because if you get out a map, you know, jot
24 this place down because it's a big city. It's the Y-O-
25 K-O-S-U-K-A.

1 MR. LAVIE: Yes, got that.

2 MR. TRAPP: And this guy, you know, when I
3 was talking to him yesterday, the Navy guy, I kind of
4 thought because of the distance that his data was just
5 BS. And here's the numbers he got, he got 17^{-9th}
6 microcuries, so he must be taking air samples.

7 MR. LAVIE: Right.

8 MR. TRAPP: And the other thing I want to
9 tell you is when I'm talking to him this guy is a
10 really, really sharp HP type. His TEDE is 1.5 MR per
11 hour and his thyroid was 10MR per hour. And what he
12 felt was due to the MET conditions, we were sort of
13 getting winds out of the north, he felt that the plume
14 would shift like five hours later.

15 So they were estimating doses of like 50
16 MR thyroid, roughly 7.5 TEDE. And I think because of
17 the distance, that was at 7:00 a.m. yesterday. So that
18 would give you some idea of the (inaudible) back then.

19 MR. LAVIE: Yes.

20 MR. TRAPP: You know, this place, we're
21 probably what, 160 miles from the site, this place is
22 probably 80 miles south of us.

23 MR. LAVIE: Well there was a report on one
24 of the news stations, which I'm not saying is credible,
25 that says that they were seeing higher radiation levels

1 in Tokyo at some point yesterday.

2 MR. TRAPP: Yes, that wouldn't shock me.

3 Because if they're getting 1.5, 80 miles south of us,

4 and the MET conditions are supposed to change Sunday.

5 But you might want to look at long-term MET conditions

6 here.

7 MR. LAVIE: You know, I had the same

8 questions when I talked to the Navy about the aircraft

9 carrier data, the Ronald Reagan. And I asked them who

10 were taking the measurements and he pointed out to me

11 they were all part of the Naval Reactor Team from the

12 reactor side of the house?

13 MR. TRAPP: Yes, there's no, you know it's

14 the only data I trust to be honest with you.

15 MR. LAVIE: They weren't NBC types running

16 around with a (inaudible) instrument, these were guys

17 that knew what they were doing.

18 MALE PARTICIPANT: What did you say, Tim,

19 who was the only person that you trust?

20 MR. TRAPP: I'm just saying that I would

21 put a lot of validity in the Navy data.

22 MR. LAVIE: Right, except this guy is a

23 Navy guy at Yokosuka.

24 MR. TRAPP: Yes, he is. And I'd put a lot

25 of confidence in that data. There is little

1 uncertainty with that data.

2 MALE PARTICIPANT: So this is a pretty

3 high dose, 240.

4 MR. TRAPP: Oh, I'm sorry, not 240.

5 MR. LAVIE: 40, ten millirems per hour.

6 MR. TRAPP: Well that's thyroid, right?

7 MR. LAVIE: I've got thyroid, at 40 miles.

8 MR. TRAPP: Oh it's a lot more than 40

9 miles.

10 MR. LAVIE: You said you were 160 miles

11 and this was 80 miles past you, 240 miles away from the

12 site?

13 MR. TRAPP: Yes, but I'm giving you some

14 estimates. You could pull up a map and get Fukushima

15 and Yokosuka and you can get a better sense for

16 yourself. YOu know, I"m just kind of fly by night.

17 But I know it's south of us.

18 MR. LAVIE: Okay. So we're going to take

19 that data and try and run and see what we can do. Do

20 we think we can get any more data from that guy?

21 MR. TRAPP: Yes, we're working on that

22 hard. Because we were sitting here scratching our

23 heads last night. And unfortunately we couldn't get in

24 to him last night but we're going to start pulsing the

25 Navy and see what we can get.

1 Because you know, we should have ships in
2 a few places and if we get that kind of talent we
3 should be able to get you a few data points.
4 MALE PARTICIPANT: You know, Jim, I'm
5 going to try, we have a contact in at Naval Reactors.
6 MR. TRAPP: No we're good. Because I
7 think we can, you know, actually Tony I think might be
8 ex-Navy and so he kind of talks turkey with these guys
9 and we might be able to get some stuff.
10 MALE PARTICIPANT: Okay. Because we got
11 the aircraft data from Naval Reactors.
12 MR. TRAPP: Oh, well you know what,
13 there's no harm in doing multiple channels.
14 MR. LAVIE: Okay. We'll see what they
15 have.
16 MR. TRAPP: Okay.
17 MR. LAVIE: And if they have something
18 we'll email it to you.
19 MR. TRAPP: That sounds good. Well we
20 don't really need it, you know, we just need your
21 explanation of it.
22 MR. LAVIE: Right.
23 MR. TRAPP: I think the Reactor Safety
24 Team wanted to chat.
25 MR. LAVIE: Before you go, Jim, let's just

1 make sure we coordinate with you on some of the stuff
2 we're doing here and get any information. You said as
3 far as this data, anything you get from this guy at the
4 Naval base that would be great. We're --
5 MR. TRAPP: You guys will get it right
6 away.
7 MR. LAVIE: Good and we're trying to
8 coordinate with the Navy right now, that they've got
9 DOE RAD team, they've got some people on the ground
10 over they said that are going to be doing some flyovers
11 and takig some measurements. So we'll be using that to
12 do some calculations.
13 MR. TRAPP: Yes, we'll see about that, the
14 Government isn't all that excited about that.
15 MR. LAVIE: Really, well apparently we
16 were told they were taking some measurements on an Air
17 Force base. So they didn't have to get any government
18 permission to do that. So hopefully we can get that
19 information.
20 MR. TRAPP: You know, the other thing I've
21 been really posting you guys to do is clearly, you
22 know, we've got a couple of spent fuel pools that are,
23 I don't know if you guys have seen the aerial shots.
24 But the fuel sits up in the top of the
25 reactors in the BWRs and those were, you saw the

1 explosions. (b)(5)

2 (b)(5)

3 We know there's no level in the 4 pool, or

4 very little level. We don't really know what the

5 condition is, but neither do they.

6 You know, I guess what I'm saying is we're

7 going to get doses in a lot of places here and we need

8 some sort of PAGs. You know and I'm not sure if one in

9 five is going to be satisfactory to some guy who had

10 his kids on one of these bases.

11 MR. LAVIE: All right. Help me understand

12 what you just said again. I mean we're going to need

13 to develop a tag?

14 MR. TRAPP: Well here's my idea, or here's

15 my thought. Yesterday when we got that 7 o'clock

16 yesterday, we had the Admiral at the Navy base saying

17 I'm sheltering women and children, right?

18 MR. LAVIE: Right.

19 MR. TRAPP: Because they're going to get a

20 chest x-ray if I don't. We're going to have an array

21 of those type of questions coming at you guys so fast

22 that if we don't have a policy. You know, like

23 American citizens can get 100 MR or something. It's

24 going to be crazy.

25 MR. LAVIE: Yes, but from a policy

1 standpoint, the ET has clearly said, (b)(5)

2

3 (b)(5)

4

5 One is what are we doing with you guys,

6 NRC staff over there, as far as RAD protection.

7 MR. TRAPP: Yes, I got a lot of dosimetry.

8 MR. LAVIE: Yes, dosimetry and stuff like

9 that. Her second question is what should the other

10 Federal members do. USAID and the other groups.

11 And basically we're going to respond that

12 here's what we're doing for our folks, the other groups

13 should have their own internal procedures and processes

14 similar to our and in line with OSHA requirements.

15 And third was, what would the

16 recommendation be for protection and evacuation of U.S.

17 citizens in Japan, which are about 160,000. And --

18 MR. TRAPP: Yes, see that's kind of where

19 I'm getting at. Is when do you pull the trigger and

20 say, you know, and it's probably not our PAGs, right?

21 FEMALE PARTICIPANT: Well it's a good

22 question because France has already tried to evacuate

23 our citizens and we told ours to stay put. So that'll

24 make people uneasy.

25 MR. TRAPP: Well be careful about that

too. They were evacuating their citizens because of these aftershocks.

MS. REED: (Inaudible.)

MR. LAVIE: Hey, Jim, Larry Camper who's our ET member just joined. And what I was saying, Jim has got the same kind of concern (b)(5)

(b)(5)

MR. CAMPER: (b)(5)

MS. REED: (b)(5)

(b)(5)

MR. TRAPP: That's protection, that's sheltering and that's the doomsday stuff. You know, what we're going to get is, like we did yesterday morning, is hey, my kids and wife are going to get 10 MR if I don't shelter. I'm an Admiral, I'm sheltering all my citizens. So we're going to get that a lot.

And some of the doses, and that base, Steve, I gave you is a long way from here. We're going to be getting that all the time.

MR. LAVIE: We're mapping that up now by

1 the way. What --

2 MR. TRAPP: You know what I'm saying is,

3 the doses are going to be a lot higher than 5/10 MR.

4 MR. LAVIE: Well do you think so?

5 MR. TRAPP: This was, Steve has got the

6 map, but what are we talking, Steve, like probably 240

7 miles and they were getting 5 MR yesterday, 0.5 MR.

8 I'm sorry it's been a long week.

9 MR. CAMPER: At 165 miles.

10 MR. TRAPP: They're going to get about 5

11 MR that morning and that was the dose that they were

12 going to see tat the base. And so this guy is saying

13 well, why I am exposing my American citizens here to

14 these kind of doses when I don't need to.

15 MR. LAVIE: And what we're saying here is,

16 Larry just commented, that's a dose rate based on what

17 the wind direction was. Now the wind direction is

18 going out to sea.

19 MR. TRAPP: And that's an improvement, but

20 Sunday it's coming to Tokyo.

21 MR. LAVIE: Right. What I'll do, Jim, is

22 we'll take this as a --

23 MR. TRAPP: We really need that.

24 (Crosstalk)

25 MR. TRAPP: These fire drills, you know, I

1 mean it's like this morning it shocked me. It's all
2 based on wind direction. But somebody in our military
3 who has the capability of taking dose rates is going to
4 be calling as soon as we get a wind shift.
5 MR. CAMPER: Well yes, but it's an
6 important point there, it's a dose rate. That's a 5 MR
7 per hour, when does --
8 MR. TRAPP: Well I'm sorry, it's 10 MR per
9 hour thyroid, 1.5 MR per hour --
10 MR. CAMPER: But my point is that is a
11 dose rate taken at some point and it changes very
12 quickly. Because the wind continues to blow, it
13 doesn't mean they absorbed 5 MR.
14 MR. TRAPP: This guy actually is pretty
15 sophisticated and they had some modeling put together
16 and he knew by the wind shift, this guy's got pretty
17 sophisticated instrumentation, and he got a dose rate.
18 Or he got a dose, he calculated the dose based on his
19 understanding of the MET data.
20 MR. CAMPER: Well that's good, I hear
21 that, I mean --
22 MR. LAVIE: And this guy's on the Naval
23 base. He's a Admiral at a Naval base or working for
24 the Admiral. And what we're trying to do is Jim's
25 going to try to get another set of data from him.

1 Because the guy's still taking measurements down there.
2 So he said this was based on MET data
3 where he was at that time. But it's going to shift.
4 It's 165 miles, Alex?
5 MS. REED: It's 165 miles like southwest,
6 but the estimate is 200 degrees (inaudible), I can't
7 figure out to get the (inaudible).
8 MR. LAVIE: You've got it. Thank you,
9 that's what we're looking for. So this guy was
10 apparently downwind because the wind was coming from
11 the north but he was in a downwind area.
12 But the wind is shifted and he is back to
13 being, I don't want to say upwind, but pretty close to
14 being upwind directly from where the wind's blowing
15 now.
16 MR. CAMPER: Jim, on this one I appreciate
17 what you're saying and maybe something for the ET to
18 consider as we move forward.
19 MR. TRAPP: Yes, that guy certainly took
20 dose rates for the entire time that he thought he was
21 in the plume and we'll try to get that data for you,
22 but I'm pretty sure we could integrate his dose.
23 MALE PARTICIPANT: (Inaudible.)
24 MR. LAVIE: Right. Okay. Hey, Jim,
25 thanks. I'm looking down my list if there's anything

(b)(5)

At this point we're telling citizens still to follow what the Japanese government is saying. And we're working on this spike in dose that they got sometime in the middle of the night, 1:00 a.m. it looked like?

MR. TRAPP: I didn't know about that.

MR. LAVIE: Yes, apparently we've got some information that said it went from about 100 MR per hour to 40 MR per hour, in about an hour and a half. And then --

MR. TRAPP: That's the site boundary.

MR. LAVIE: Yes, the site boundary, and then it dropped back down to about 60 MR per hour.

MR. TRAPP: We had that yesterday too.

MR. LAVIE: I think that's what we're tracking, it's the same one.

MALE PARTICIPANT: Well this was actually yesterday morning, about 9 o'clock, it was about 20 hours from now.

MR. LAVIE: Okay. Any idea why?

MR. TRAPP: Oh they had no explanation.

1 You know what they told me? Here was the pisser, we
2 went from -- In the morning we thought we had a bad
3 condition with the Number 2 Reactor, right? And the
4 gate reading was 1.1 R, at the site boundary. And then
5 by the afternoon we were talking about changing our
6 evacuation strategy.
7 We called them up and asked them for the
8 same dose number, because we figured it would be about
9 the same. And it had gone down to 132 MR. So it went
10 down by a factor of ten. That was from 9 o'clock until
11 about 2 o'clock.
12 MR. LAVIE: And their explanation?
13 MR. TRAPP: The wind shifted.
14 MR. LAVIE: The wind shifted. Okay. I
15 guess the other, I'm sorry, I thought I had something
16 else for you. Okay. You need to talk to the reactor
17 safety team, right?
18 MR. TRAPP: Sure.
19 MR. LAVIE: Okay, let me get them over
20 here.
21 MS. REED: No, have him call over there.
22 MR. LAVIE: What's their number? Hey,
23 Jim, we're going to give you a number to call them, is
24 that all right?
25 MR. TRAPP: I'm just working through the

1 HOO, I don't think I can do that. I mean if I could
2 star-zero, I could probably get the HOO and ask him to
3 ship me over.
4 MR. LAVIE: All right, hold on. We're
5 going to get somebody to come back on and grab you and
6 send you back to the right place. Okay. The gentleman
7 here is going to get you transferred to the right
8 people, Jim.
9 MR. TRAPP: Well, I'm glad you guys are
10 there. I mean you guys are going to get busy I think.
11 MR. LAVIE: Thanks, appreciate the heads
12 up.
13 MALE PARTICIPANT: And if I drop you just
14 call back into the HOOs and they'll put you up there.
15 MR. TRAPP: Is the Reactor Safety Team
16 giving you some good information on the conditions
17 here?
18 MR. LAVIE: They just stepped away.
19 JOHN: NRC Operations Center, recorded
20 line. How may I help you.
21 MR. LAVIE: Hey, John, I was trying to
22 transfer Jim Trapp back so that you could put him on to
23 the Reactor Safety Team. I don't want to hang up here,
24 I think he might still be on there, hang on a second.
25 JOHN: Well he can just dial 5599.

1 MR. LAVIE: Okay, I think I may have
2 dropped him. Let me see. Jim, you still there?
3 MR. TRAPP: Yes, I am.
4 MR. LAVIE: Okay, I'm going to try it
5 again. Jim, you there again?
6 MR. TRAPP: Here.
7 MALE PARTICIPANT: Hey, I've got it here,
8 I'll transfer him over.
9 MR. LAVIE: Okay, thanks.
10 (CONFERENCE CALL ENDED.)
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17 0%D@EZ2_15365094
18 (CONFERENCE CALL INITIATED.)
19 MS. BROCK: Protective Measures Team, NRC,
20 Kathy.
21 MR. BEAL: Hi, Kathy. This is Bill Beal
22 calling from DOE NIT Ops.
23 MS. BROCK: Thank you. Hi, Bill, how you
24 doing?
25 MR. BEAL: Good. I'm getting questions

1 from, I'm polling our own folks and there seems to be
2 confusion. I just came on shift a little while ago and
3 I got the information as best I could. But I'm still a
4 little bit confused as to what the conventional wisdom
5 is right now on 2 versus 4 having exploded.
6 You know, having been an explosion at
7 either Unit 2 or Unit 4. What are you guys basing your
8 information on?
9 MS. BROCK: Are you referencing when we
10 talked to you guys a little bit ago?
11 MR. BEAL: Well I know we had just been on
12 the bridge line a little while ago but I don't remember
13 if this questions explicitly came up or not.
14 MS. BROCK: No, I don't think it did
15 unless I tuned out. But the latest we have for Unit 2,
16 let's see what it says. I'm not seeing any recent
17 explosions. I heard --
18 MR. BEAL: No, this would have been at the
19 same time, I believe like 1500 Japan local time, the
20 15th.
21 MR. BROCK: Okay, you know what, I think I
22 need to write down your question and then look around
23 here to see if I can get it.
24 MR. BEAL: Okay.
25 MR. BROCK: What's your question exactly?

1 MR. BEAL: So the question is what do you
2 guys believe happened regarding an explosion in Unit 2
3 versus Unit 4? Because what we're seeing here there
4 seems to be some confusion in the information that we
5 have that there have been explosions at Unit 2 and at
6 Unit 4 and the times on them seem to be similar.
7 And it's not clear that two things
8 exploded at the same time.
9 MS. BROCK: All right, and you think that
10 it was at 1500 Japan time?
11 MR. BEAL: I need to double-check that
12 time. There was an explosion at 2:00, I don't think
13 there was an explosion at 4:00. Okay, there's a TEPCO
14 press release that claims that though. But the time
15 looks to be the same as when we thought the Unit 2
16 explosion happened.
17 MR. FILET: I can't confirm this, but --
18 This is Mike Filet (phonetic) from (inaudible), that
19 they seem to have backed off on it being 2 and think
20 that it's now, what they thought was 2 may have
21 actually been 4. So we don't know.
22 MS. BROCK: So we don't know either.
23 MR. BEAL: Okay, well that's fine. I'm
24 actually happy to hear that because there's confusion
25 for briefings that are going up to higher levels. So I

1 want to make sure that we have the best information we
2 can get.
3 MS. BROCK: All right. Yes, I don't think
4 we have anything better but we'll be sure and call you
5 if we hear.
6 MR. BEAL: Okay. We appreciate it, thank
7 you. And I believe someone, I don't know if they were
8 talking to you guys, but someone's trying to chase down
9 the information on altitudes, flight restrictions.
10 MS. BROCK: Yes.
11 MR. BEAL: So somebody's chasing that down
12 right now. We'll let you know as soon as we get it.
13 MS. BROCK: Thank you, bye bye.
14 MR. BEAL: Out.
15 (CONFERENCE CALL ENDED.)
16 0%D@Q07_15365094
17 (CONFERENCE CALL INITIATED.)
18 MR. LIBINSKI: John Libinski, NRC.
19 MR. PERRY: Hi, this is Ken Perry. I was
20 returning a phone call. There was a request about
21 flight restrictions around the nuclear power plant in
22 Japan?
23 MR. LIBINSKI: Yes, I appreciate you
24 calling back. What we have is that there was a no-fly
25 zone, a 30 kilometer radius around the Daiichi plant.

1 And what we don't have is the altitude.

2 MR. PERRY: Yes, sir. It's zero to

3 unlimited. And I confirmed that with the FAA Ops

4 Center.

5 MR. LIBINSKI: Zero to unlimited?

6 MR. PERRY: Yes, sir.

7 MR. LIBINSKI: Okay, so nobody anywhere.

8 That conflicts with what we heard earlier. We heard

9 flights at high elevations were okay.

10 MR. PERRY: Yes, they said it may change.

11 There may be temporary flight restrictions based on

12 radiation hazards, but right now that's the rule.

13 Nineteen mile radius, zero to unlimited.

14 MR. LIBINSKI: Nineteen miles, I can't do

15 the math in my head, that's 30 kilometers?

16 MR. PERRY: Yes, sir.

17 MR. LIBINSKI: Thank you very much, we

18 appreciate that update.

19 MR. PERRY: All right. You're welcome,

20 sir.

21 MR. LIBINSKI: Okay. Bye.

22 (CONFERENCE CALL ENDED.)

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17 (CONFERENCE CALL INITIATED.)
18 MS. BROCK: Protective Measures Team.
19 JEFF: With whom am I speaking to?
20 MS. BROCK: Kathy Brock.
21 JEFF: Hey, Kathy, it's Jeff (inaudible).
22 MS. BROCK: Hey, Jeff.
23 JEFF: I'm down at USAID right now and
24 they've got, I don't even know where it started but
25 it's basically, I cautious in calling it guidance, for

1 the USAR teams and the teams on the ground in Japan?

2 MS. BROCK: Yes.

3 JEFF: I don't know. I think you knew

4 this was coming. You and Steve Lavie were working on

5 something similar?

6 MS. BROCK: Yes, we developed a one pager.

7 JEFF: Okay. They've got something that I

8 was going to send to you.

9 MS. BROCK: Yes, I'll look at it if you

10 want.

11 JEFF: With the caveat that it's very,

12 very rough. Very, very, very rough. And there's just

13 no good way to do this without probably breaking lots

14 of regulations and rules and everything like that.

15 Because they're kind of giving guidance over the top of

16 something else. So if you want to look at it, see,

17 just kind of pick it apart.

18 If there's something show stopping about

19 it. And if there's not and you kind of agree with a

20 lot of it.

21 MS. BROCK: Okay, so just (inaudible)?

22 JEFF: You're going to email it to me

23 right now? What's your PMT?

24 MS. BROCK: We're PMT12.hoc@nrc.gov.

25 JEFF: Okay. I will send it to you now.

1 MS. BROCK: Okay.

2 JEFF: Okay. Bye.

3 (CONFERENCE CALL ENDED.)

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17 (CONFERENCE CALL INITIATED.)

18 MS. BROCK: NRC Protective Measures Team.

19 JEFF: Hey, is this Kathy again?

20 MS. BROCK: Yes.

21 JEFF: Hey, it's Jeff (inaudible). Hey, I

22 got a question from, it is one of the Congresswomen

23 Rosa DeLauro, I don't know where she's out of. But

24 anyone one of her, a firm in her district --

25 MS. BROCK: How do you spell it?

1 JEFF: Rosa, last name's D-E, capital L-A-
2 U-R-O.
3 MS. BROCK: Okay.
4 JEFF: Connecticut. That may just be,
5 I'll look it up. But a firm in their district, and
6 this is coming through USAID, a firm in her district
7 makes air radiation sensors. I want to make sure
8 that's --
9 MS. BROCK: Like air monitoring you mean?
10 JEFF: Yes. And it is Connecticut, Third
11 District of Connecticut. She through a couple of email
12 channels basically said they're offering, they're just
13 going to give these to Japan. They've got an excess,
14 they're going to send half a dozen monitors, they want
15 to offer them to Japan. And just want to know the
16 channels they can do that.
17 So obviously they reached out to USAID and
18 said, can you guys give them to us and they are in turn
19 asking us, do we need them. I know that's probably
20 more of a DOE question for their RAD teams or whatever
21 their teams are called right now. But --
22 MS. BROCK: Could you email me the details
23 of the instrumentation?
24 JEFF: Yes, I'll email you the whole
25 thread. I just wanted to call and kind of verbally

1 tell you where this is coming from.

2 MS. BROCK: I'll send it over to the OPA

3 people because I think they're the ones that are

4 answering questions like, can I help.

5 JEFF: Okay.

6 MS. BROCK: And I know that we put a list

7 together of equipment to go over, but it was --

8 JEFF: Right. And you know this --

9 MS. BROCK: I'm thinking we're going to

10 politely decline. But I'll --

11 JEFF: Right. For us, and the reason I

12 called you was because more of our DOE contacts you

13 guys have. Because my personal opinion is, I mean, we

14 don't have any, NRC at least, doesn't have a way of

15 doing anything with air radiation monitor. I mean we

16 don't have a plane, we don't have a helicopter, we

17 can't do anything with it anyway.

18 So unless you guys wanted to reach out,

19 unless you had the contacts directly with the teams

20 that are out there now, the RAD teams or whatever. The

21 CMTs that are out there right now, I can forward this

22 to you and --

23 MS. BROCK: I think they've got enough

24 stuff, but --

25 JEFF: Okay. That's kind of the consensus

1 I got so I will kind of let them know. And I'll send
2 this to you so you can forward it to OPA, but I'll also
3 call the NIT. I (inaudible) --
4 MS. BROCK: Yes, they will.
5 JEFF: Okay. Very good. Thanks so much,
6 bye bye.
7 MS. BROCK: Thanks. Bye.
8 (CONFERENCE CALL ENDED.)
9 0%DCU0BL15365094 (No words to transcribe.)
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17 0%DDAUOL15365094
18 (CONFERENCE CALL INITIATED.)
19 MR. BAILEY: Hello, Stu Bailey can I help
20 you?
21 MR. LIBINSKI: Stu Bailey, this is the
22 NRC, how are you doing?
23 MR. BAILEY: Okay. Fine.
24 MR. LIBINSKI: The reason we are calling
25 is we have gotten some --

1 MS. BROCK: First, can we get connected to
2 the NIT?
3 MR. BAILEY: I'm sorry, was I overhearing
4 somebody in the background?
5 MR. LIBINSKI: No, I'm sorry. We need to
6 get connected to the NIT.
7 MR. BAILEY: Okay, just a second please.
8 MR. LIBINSKI: Thank you.
9 MR. BAILEY: Can you tell me your name
10 please?
11 MR. LIBINSKI: Yes, this is John Libinski,
12 Kathryn Brock and Steve Levie at NRC.
13 MR. BAILEY: Oh, you're on a speaker.
14 Okay. Hang on just a second.
15 MR. NELSON: Hey, Bill. NRC I might need
16 some help.
17 MR. LIBINSKI: This is NRC.
18 MR. NELSON: This is Keith Nelson, DOE
19 NIT.
20 MR. LIBINSKI: Are you guys there?
21 MR. NELSON: Yes, this is DOE NIT.
22 MR. LIBINSKI: Hey, appreciate it. I'm
23 going to turn it over to Kathryn Brock and let her
24 handle this call.
25 MS. BROCK: Hey there. I've got a couple

1 of questions. The first question is we heard that
2 Japanese officials are pulling workers from the damaged
3 site. Have you heard that?
4 MR. NELSON: No, ma'am.
5 MS. BROCK: Okay. Let's see, this other
6 one says skeleton crew remaining at the Daiichi plant
7 but they're evacuated because the risk (inaudible) from
8 radiations levels. From a Japanese government
9 spokesman. You haven't heard that?
10 MR. NELSON: No, ma'am, the last update we
11 had a couple of minutes ago from an IAEA report was
12 there is still a fire or another fire in Number 4.
13 MS. BROCK: Okay. Very good, thank you.
14 MR. NELSON: And yes, that was the last
15 update that we had.
16 MS. BROCK: Okay. Well thank you for
17 that. That's question number one. Question number two
18 is we just received, (b)(5)
19
20 (b)(5)
21
22 And we wanted to double-check to see (b)(5)
23 (b)(5) how we could possibly
24 communicate this information to you guys, from you
25 guys, you know what I'm talking about?

1 MR. NELSON: Yes. We have a classified
2 fax. And I'm looking up the classified fax number
3 right now. (b)(5)
4 MS. BROCK: (b)(5)
5 (b)(5)
6 MR. NELSON: Okay. That's interesting.
7 MS. BROCK: (b)(5)
8 (b)(5)
9 MR. NELSON: Okay. (b)(5)
10 (b)(5)
11
12 MS. BROCK: Yes, we don't know. (b)(5)
13 (b)(5)
14 (b)(5) And we don't know, oh
15 gosh, I can't read his handwriting.
16 MR. NELSON: Our team should start either
17 today or tomorrow with our flights and our ground
18 mapping. (b)(5)
19 (b)(5)
20 MS. BROCK: Okay, so do you want us to
21 send it to you?
22 MR. NELSON: Sure, ma'am.
23 MS. BROCK: All right. Well when you guys
24 get it would you give us a call back on this line?
25 MR. NELSON: Yes, let me get your number.

1 MS. BROCK: Yes, we're at 301-816-5419.

2 MR. NELSON: Okay. Thank you.

3 MS. BROCK: Thanks. Bye.

4 MR. NELSON: Bye.

5 (CONFERENCE CALL ENDED.)

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19 (CONFERENCE CALL INITIATED.)

20 TURNER: Operations Center, Turner

21 speaking, may I help you?

22 MS. BROCK: Can I be connected to the NIT?

23 This is Kathryn Brock from NRC.

24 TURNER: Okay. Stand by please. You're

25 connected, ma'am, go right ahead.

1 MS. BROCK: Thank you so much.

2 MR. PERRY: Hi, this is Ken Perry in the

3 Nuclear Incident Team.

4 MS. BROCK: Hey there. You know, I can't

5 remember who I was talking to earlier. But we were

6 going to be faxing over, this is NRC, (b)(5)

7 (b)(5) And our sellers (phonetic) would prefer

8 if we could send it over on the SIPRNet account.

9 MR. PERRY: Oh sure, you can send it on

10 our SIPRNet account, it is, let me find it on our board

11 here. Here we go. Nit@doe.sgov.gov.

12 MS. BROCK: Okay. S-G-O-V, that's it?

13 MR PERRY: sgov.gov.

14 MS. BROCK: All right, I'll take care of

15 it now.

16 MR. PERRY: All right, thanks.

17 MS. BROCK: Thanks, bye bye.

18 MR. PERRY: Bye.

19 (CONFERENCE CALL ENDED.)

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