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1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT POLYCOM TABLE PHONE AUDIO FILES

6 + + + + +

7 FRIDAY,
8 MARCH 11, 2011

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(CONFERENCE CALL INITIATED) AUTOMATED

MESSAGE: Your call is being answered by Audix. Julie Bentz. She's not available. To leave a message wait for the tone. Record at the tone.

MIKE LAYTON: Hey, Julie. This Mike Layton from the NRC. I saw some emails that you sent up to Joe Shea, 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 setup a call for you. I'm also going to send you an email. Thanks a lot.

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(CONFERENCE CALL INITIATED)

DAN: Hello, this is Dan.

JOHN NASSTROM: Hey Dan, John Nasstrom here.

DAN: Hold on a minute.

GREG CASTO: Hey, John. This is Greg Casto.

JOHN NASSTROM: Hey, Greg.

GREG CASTO: Hi. We've got a couple more people. We're getting them right now.

BRUCE WATSON: Who all we waiting on?

GREG CASTO: Just Rick (phonetic), but can go ahead and start. Okay, John. This is Greg Casto and also Bruce Watson.

BRUCE WATSON: Still there?

JOHN NASSTROM: Yes. Hi, Bruce.

BRUCE WATSON: Okay.

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MALE PARTICIPANT: Are you waiting on your
end for some people?

MALE PARTICIPANT: I thought we were waiting
for the other (inaudible).

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: (Inaudible) folks.

MALE PARTICIPANT: Okay.

OPERATOR: Side line.

DAN BLUMENTHAL: This Dan Blumenthal. I'm
just not in the NIT right now, so actually I could tell
them to call in. I just couldn't get back down there
in time, so I didn't want to keep you guys from talking.
So let me just tell them to call in.

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DAN BLUMENTHAL: On the bridge line, yes.

I didn't think I'd get down there in time, so. Hey, Bill, did you dial in yet?

MALE PARTICIPANT: I don't know if he knows he's supposed to.

DAN BLUMENTHAL: I told him to. All right let's just get started.

MALE PARTICIPANT: Let me, I'll call him.

BILL: Hello, this is NIT OPs. This is Bill just dialed in here.

DAN BLUMENTHAL: Alan (phonetic) they dialed in. Okay, so let's get started. John do you want to start or?

(Crosstalk)

JOHN NASSTROM: Yes, I guess, this is John Nasstrom from NARAC and Lawrence Livermore Labs. I think where we left it on our last call is some of the NRC, RASCAL folks are going to come in and start looking at the reactor conditions.

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

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1 RON: No just that again that there's, you
2 know, potential for release, but not official announcement
3 that there has been any venting.

4 DAN BLUMENTHAL: Okay.

5 (Crosstalk)

6 JOHN NASSTROM: Hey, (inaudible) we just
7 got a third email message that came in a little bit ago.
8 We're going to check on that and we'll hopefully get
9 that to you shortly. Does anyone else have any other
10 news on the reactor's conditions?

11 BILL: Hey, John. This is Bill. Can you
12 clarify what was just said about you haven't received
13 the IAEA report? Was that the one I was referring to
14 before that I was, that I promised I'd send you? Because
15 I sent that.

16 JOHN NASSTROM: Oh, you did. Okay.

17 BILL: I sent it to the ho.hoc address as
18 well narac@lnol.

19 (Crosstalk)

20 JOHN NASSTROM: All right, so we do have
21 that. Bill do you want to kind of run down that? Do
22 you have that in front of you?

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

24 JOHN NASSTROM: Yes.

25 BILL: Oh, give me a sec here. Okay,

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1 according to that IAEA report, so there's three units
2 at Fukushima I. Unit 1, well all three units are in
3 maintain shutdown status. Unit 1, no information on
4 the status of the power supply to Unit 1. The reactor
5 water level is oscillating.

6 At 15:30 UTC, it was observed to be 130
7 centimeters above the top of the core. Containment intact
8 but increasing containment pressure. A decision was
9 made to perform "limited control venting".

10 Unit 2, again maintain shutdown status.
11 No power supply to Unit 2. They are undergoing work
12 to restore (inaudible). Water was observed 350
13 centimeters above the top of the core as of 15:30 UTC.
14 Unit 3, maintain shutdown status.

15 (Crosstalk)

16 BILL: 450 centimeters above the top of the
17 core at 13:00 UTC. That's a different time than the
18 other two reported. Containment intact. And mobile
19 power generator has arrived at site. No information
20 on the capacity of that thing. And that report went
21 to the IAEA as of 18:30 UTC, 11 March. So there may
22 be more current information than that.

23 We've been looking at the TEPCO press releases.

24 If you go to the TEPCO website, I think I added a couple
25 of links there. We've been monitoring those. I don't

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1 know if there's another, better up to date source for
2 information on the status of those plants. But that's
3 what I have.

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MALE PARTICIPANT: Yes, so we're looking at the TEPCO report that you'd sent the link to Bill and it looks like they're reporting, do not believe there is leakage of reactor coolant in the containment vessel of Unit 1 at this moment. Same thing for Unit 2. Same thing for Unit 3 and 4.

MALE PARTICIPANT: (Inaudible.)

MALE PARTICIPANT: And then there is also a note that says no radiation impact to the external environment has been confirmed.

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(CONFERENCE CALL INITIATED)

BILL: Okay, this is Bill again. I have some more information. Actual numbers that came from, I believe a Japanese only, press release from TEPCO. I don't know if there is an English version of it. And I can fax this page to, John give me your fax number as well.

I have the NRC fax number but, I'll read the numbers off, but I'll fax this out to you as well.

JOHN: Okay, so the NARAC fax number is area code 925-423-4527.

BILL: Okay, 925-423-4527. And I will fax to NRC at 301-816-5151.

MALE PARTICIPANT: That's correct.

(Crosstalk)

BILL: Hey, you guys ready to copy some numbers?

JOHN: Yes.

BILL: Okay, the email I'm reading from here says, according to TEPCO's website the radiation levels at the main gate of Fukushima, Daiichi, Fukushima I, are as in below. So these look like times. So 3:40, I guess that's local time. I'm not sure but, at 3:40, 6 and 6 nanoGray per hour.

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1 JOHN: 66 nanoGray.

2 (Crosstalk)

3 BILL: At 3:50, 64 nanoGray per hour. 4
4 o'clock, 69 nanoGray per hour. At 4:40, 866 nanoGray
5 per hour. At 4:50, 1002 nanoGray per hour. At 5:10,
6 (inaudible) nanoGray per hour.

7 JOHN: Could you repeat that last one?

8 BILL: It's 5:10, (inaudible) nanoGray per
9 hour, 1590.

10 JOHN: 1590 nanoGray.

11 BILL: 1590.

12 MALE PARTICIPANT: No. 1590.

13 JOHN: Yes, I got it. 1590.

14 BILL: That's it for the numbers. I'll fax
15 this, these pages out to you as well.

16 JOHN: Where was the location of that
17 reading?

18 BILL: What it reports, is at the main gate
19 of Fukushima, Daiichi power plant, which is Fukushima
20 I, at the main gate.

21 JOHN: Okay, thank you for calling us.

22 (Crosstalk)

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(CONFERENCE CALL INITIATED)

BILL: Hello, this is Bill at NIT Ops. Is NRC or NARAC still on the bridge line?

NRC PARTICIPANT: This is NRC.

BILL: Okay, NRC I just sent, that's the numbers I was trying to fax, I found an email and I emailed them to ho.hoc.

NRC PARTICIPANT: Okay. It'll get here.

(Crosstalk).

BILL: (Inaudible) to narac@lnol as well.

NRC PARTICIPANT: Okay. Thank you, Bill.
Yes, we got your fax also, Bill.

BILL: At this point, does anyone have a, I didn't see much detail there about when the venting might have happened? Does anyone have any information on that?

MALE PARTICIPANT: We're just going through the press releases.

(Pause)

NRC PARTICIPANT: I see a lot of references toperformalimitedcontrolventing. But I don't actually see an estimate of when that might have happened.

(Crosstalk)

MALE PARTICIPANT: Hey, Lou. Okay, we are,

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1 let's see what we've got. We don't have a coordinator,
2 but right now we doing okay, so if you still wanted to
3 come in at, say between 11 and 12, that buys you time.

4 MALE PARTICIPANT: Someone was on the
5 computer at 4 a.m. (inaudible).

6 MALE PARTICIPANT: I called Arlon and left
7 a message, called Jack Foster left a message. Kathryn
8 Brock is coming in as CAD (phonetic) at 11. The (inaudible)
9 is here now. Steve is coming probably between 11 and
10 midnight as RAD (phonetic). Tony's here. And Kimberly
11 is coming at 11. Okay.

12 So, that's what we've got. And then Faith
13 (phonetic), you could come in, no I wouldn't do that.
14 Hey, right now, we're good. So I wouldn't. Yes, yes.
15 And I don't think, probably just come in a little bit
16 later.

17 Now what we're, we're trying to figure out
18 now what we're doing for tonight. There's hardly anybody
19 in, people coming in tonight aren't going to have much
20 computer, if at all. So I'm setting up a relief at 7.
21 And then we'll start transitioning to 12 hour days.
22 Yes, 7 to 7. And that's what the team (inaudible). Okay?

23 Not with Todd. Yes, no we just got off the
24 phone with (inaudible), to set the time. And we're going
25 to do some, do some what-if source term runs that make

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1 some sense. And then give it to them and they're going
2 to, may (inaudible), may do some modeling. They've
3 already done, they've done some of the atmospheric
4 analysis and they got MET, and they're hot and ready
5 to go, so.

6 Oh, yes. No, they called right away, it
7 was kind of interesting, because they called me, I guess,
8 right before I called you. And we're ready to do some
9 runs. So they're all -- Right. So we were, I stalled
10 them for a little while. (Inaudible.) Okay thanks, Louis
11 (phonetic), appreciate it. Okay. Bye.

12 MALE PARTICIPANT: How'd it go?

13 MALE PARTICIPANT: It went well (inaudible).

14 (Crosstalk)

15 JOHN NASSTROM: Well, if you look at these
16 TEPCO reports, at 6 a.m., the 6 a.m. report is the first
17 time that they mention the fact that they're continuing
18 to monitor discharge of radioactive materials from exhaust
19 stack. So I'm wondering if we can infer from that, that
20 sometime between 5 a.m., the report before that was 5
21 a.m. and it didn't mention that?

22 GREG CASTO: Okay.

23 JOHN NASSTROM: I'm wondering if we can infer
24 from that, that it was between 5 a.m. and 6 a.m.?

25 MALE PARTICIPANT: I think 5 a.m. was 20

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1 feet?

2 MALE PARTICIPANT: Twenty feet?

3 MALE PARTICIPANT: I think.

4 GREG CASTO: 5 a.m. to 6 a.m., they started
5 this controlled vent?

6 JOHN NASSTROM: Yes, I mean that's just
7 kind of trying to read between the lines here because
8 --

9 GREG CASTO: Right.

10 JOHN NASSTROM: The 6 a.m. report is the
11 first time they mentioned elevated measurements of
12 radioactivity. And the fact that they are continuing
13 to monitor discharge from exhaust stack.

14 GREG CASTO: Okay.

15 JOHN NASSTROM: And discharge (inaudible)
16 channel.

17 GREG CASTO: Okay. And those readings
18 earlier, those were from survey teams that, high boundary,
19 or the, you said the front gate or whatever?

20 JOHN NASSTROM: I think yes, that's Bill
21 said that was at the main gate. Yes.

22 GREG CASTO: At the main gate, yes. But
23 nothing, nothing off the stack monitor?

24 JOHN NASSTROM: I haven't seen anything that
25 looked like that.

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1 GREG CASTO: Yes, that would make, make our
2 life easy.

3 JOHN NASSTROM: Sure would.

4 GREG CASTO: Yes, Okay.

5 JOHN NASSTROM: If they're monitoring it,
6 it would be nice to know what they're monitoring instead
7 of trying to estimate it, yes.

8 GREG CASTO: Right. Right. Okay.

9 JOHN NASSTROM: (Inaudible.) Yes, they
10 mention iodine et cetera, but does that make sense?

11 GREG CASTO: Not really. No. It really
12 doesn't.

13 JOHN NASSTROM: (Inaudible.) It says
14 measurement of radioactive material by monitoring car,
15 indicating increased values, and it says in parenthesis,
16 it says, iodine et cetera. So I'm wondering if that's
17 just a generic noun they're using.

18 GREG CASTO: Yes. See that wouldn't,
19 wouldn't expect that from a control vent. Or at this
20 stage of their event. It's possible they could
21 (inaudible). And they talked about such low levels,
22 you know, measuring in the micro range.

23 So it's possible and typically survey teams
24 who when they take the readings, they'll come up with
25 a TEDI (phonetic) and a CD (phonetic) measurement just

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1 as a routine even if there really isn't much there.

2 So they'll take a, you know, they'll take
3 the TEDI and then they'll estimate a (inaudible) from
4 that maybe. But it's just hard to say without good value.

5 JOHN NASSTROM: Yes. So is anyone at NRC
6 thinking about taking a stab at estimating the
7 (inaudible).

8 GREG CASTO: Yes, we're doing it now. Yes,
9 we're doing some runs now.

10 JOHN NASSTROM: Okay. All right.

11 GREG CASTO: So we'll give you, hey, we've
12 got a couple scenarios. We're doing the runs and then
13 we'll validate and get it to you. We'll give you a couple
14 different scenarios. We can get some, maybe some ballpark
15 estimates.

16 JOHN NASSTROM: You guys, will you guys also
17 try to and I guess this is hard to predict, but give,
18 can you get anyway of taking a wild guess as to how long
19 they might be venting this stuff, or do we just assume
20 it's continuous?

21 GREG CASTO: I, probably wouldn't be
22 continuous. But we'll let me look at that. We might
23 be able to do some guesstimates.

24 JOHN NASSTROM: We'll just leave this line
25 open here at NARAC --

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1 GREG CASTO: Okay.

2 JOHN NASSTROM: For now, and if anyone has
3 anything, we'll be on the line.

4 GREG CASTO: Okay, great.

5 JOHN NASSTROM: And you have our number so
6 if you can't raise us on this line, just give us a call.

7 GREG CASTO: All right. I'll get back on
8 the line. I'll phone and ask that question across the
9 hall here, and see what, see what we can come up with.
10 (inaudible)

11 JOHN NASSTROM: Okay. All right.

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(CONFERENCE CALL INITIATED)

GREG CASTO: This is Greg Casto at NRC.
We're looking for somebody from NARAC on the line. Come
on guys, we called. Windspeeddirectionstabilityclass,
is that what you're looking for?

Hi, Karen. This is Greg Casto at the NRC.

Hi. I was (inaudible) to NARAC, we were on the bridge
with John Nasstrom, sound right? Anyway had some
questions for him and we're still on the bridge, but
I can't get anybody on the other side.

Are you also in the same room, or? Oh, okay.

Okay. Or I can ask you. Our question is, we're doing
some RASCAL runs for source term data, and we need some
current MET (phonetic) data. Windspeed, wind stability,
or wind speed, wind direction, stability class? Yes.

You bet.

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(CONFERENCE CALL INITIATED)

GREG CASTO: Hey, John. This is Greg Casto.

Hey, you guys have current MET data? Okay.

Yes. It's probably more than we need. But wind speed,
wind direction, stability class, delta-T or we can take
whatever you got. Okay.

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MALE PARTICIPANT: Okay. Okay. Yes.

Okay, great. Thank you. Okay. Good Bye.

FEMALE PARTICIPANT: Okay. (Inaudible.)

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(CONFERENCE CALL INITIATED)

GREG CASTO: This is Greg Casto, is anybody on?

JOHN: Hi. This is John Ramisco (phonetic), we're on right now.

GREG CASTO: Hey, Alan (phonetic) somebody took the line here.

ALAN: Okay, I think it was John that was talking about what the possible duration would be for one of these controlled vents?

GREG CASTO: Right.

ALAN: And we've looked into it a little bit, and who knows, be possible we could use something, you know, 4 to 8 hours, might be a reasonable thing. Probably wouldn't be continuous. We think it would probably be pretty slow, dependent on how confident they were going to get some power back, or some control back.

But one thing that our reactor team thought they understood, was first it -- a couple things. Unit 2 they believe is the unit that's in venting now. They're not sure about Unit 1. But they had a report that Unit 2 when they started venting was at 100 psi.

And I believe that information came from an IAEA report. I don't know if you've seen similar

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1 information? Typically you've had better information
2 than we have.

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(CONFERENCE CALL INITIATED)

BILL BEAL: Okay. I, yes, I'm not sure who was gave the impression that we were going to like give hourly updates on the plant status. Or, you know, our (inaudible) and stuff like that. But we just don't have that information.

MALE PARTICIPANT: Okay.

BILL BEAL: We would do the same thing that you would, checking weather underground et cetera.

MALE PARTICIPANT: Now wait a minute. Now who am I talking to? This NARAC?

BILL BEAL: This is Bill Beal at NIT Ops.

MALE PARTICIPANT: Oh, Okay. Well, we had NARAC on the phone.

BILL BEAL: Oh, okay.

MALE PARTICIPANT: And they've got, I'm sorry. I thought that's who you were. We have, they have all the good stuff. So that's who was prompting -- yes.

BILL BEAL: All right.

MALE PARTICIPANT: I haven't heard from them in a while. We're just keeping this line open, so.

BILL BEAL: Right. Yes, we are too.

MALE PARTICIPANT: Okay.

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1 BILL BEAL: Just kept it on low volume.

2 MALE PARTICIPANT: All right. Sorry about
3 that.

4 BILL BEAL: You want us to call NARAC and
5 have them call in? Do you need information from them?

6 MALE PARTICIPANT: I called them a little
7 while ago and they said they were going to send it.
8 We just haven't seen it. You know, it's not real critical.
9 We're doing some runs now. So we're just using what
10 we get off weather underground. And they'll redo it.
11 They're just looking for source term from us, you know.
12 It'll work.

13 BILL BEAL: Okay. Thanks.

14 MALE PARTICIPANT: We have Louis (phonetic)
15 (inaudible) and NIT Ops. There's some email exchange
16 here, between our deputy secretary and your commissioner,
17 and so they're very happy that we're working this, and
18 so.

19 MALE PARTICIPANT: Yes, we got that feedback
20 too on our end, so.

21 MALE PARTICIPANT: Yes, okay. We just
22 wanted to make sure.

23 MALE PARTICIPANT: Yes, no, appreciate it.
24
25

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(CONFERENCE CALL INITIATED)

GREG CASTO: This is Greg Casto.

MALE PARTICIPANT: I'm going to write on
here, what if?

GREG CASTO: NARAC on the phone?

MALE PARTICIPANT: Not a on (inaudible)

MALE PARTICIPANT: You know, I could have
(inaudible). Figure it out myself.

GREG CASTO: So why don't you use the
internet?

MALE PARTICIPANT: Yes, it's true.
(Inaudible.)

GREG CASTO: They said, what is it? Weather
underground has, the plant has a site, has a weather
site.

MALE PARTICIPANT: Oh, I'll pull it up and
then we can just use it.

MALE PARTICIPANT: So we don't have a
(inaudible)?

MALE PARTICIPANT: No.

GREG CASTO: No. (Inaudible.)

(Crosstalk)

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I think I'll send my boss
an email, tell him I called in. Make him happy.

MALE PARTICIPANT: Yes.

THIRD MALE PARTICIPANT: What's your boss
going to say?

MALE PARTICIPANT: Keep (inaudible).

MALE PARTICIPANT: It's PA (inaudible)

MALE PARTICIPANT: Oh, shit. I got to go
charge it. It'll die on me.

MALE PARTICIPANT: Is he a deputy?

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Who's a deputy? Larry?

MALE PARTICIPANT: Yes.

THIRD MALE PARTICIPANT: Yes. Yes, he's
a deputy to Larry.

MALE PARTICIPANT: Are they still on the
line or not?

GREG CASTO: Yes, well I yelled for them,
and didn't hear anybody.

MALE PARTICIPANT: I didn't know if they
(inaudible).

NARAC PARTICIPANT: (Inaudible.)

GREG CASTO: Oh, there you are. Yes.

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1 NARAC PARTICIPANT: Sorry, we had it on low
2 volume.

3 GREG CASTO: Oh, that's all right. We're
4 still looking for MET data, and we got something off
5 weather underground, but we didn't get stability class.

6 (Inaudible) do you get, do you read it over the phone
7 we could plug it into our RASCAL run, and it might make
8 it a little more realistic.

9 NARAC PARTICIPANT: MET data? Read what
10 over the phone?

11 GREG CASTO: Wind speed, wind direction,
12 and delta-T, or whatever they've got.

13 NARAC PARTICIPANT: I'm not sure what, I
14 don't know that we have a source for the MET data.

15 GREG CASTO: Fine.

16 NARAC PARTICIPANT: Were you referring to
17 a specific email or something?

18 GREG CASTO: Yes, you guys were going to
19 send us an email and then start sending us hourly updates.

20 NARAC PARTICIPANT: Okay. I don't know who
21 promised that. I got to.

22 GREG CASTO: Okay.
23
24
25

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT Polycom Table Phone Audio Files

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Who (inaudible) IAEA
on the phone?

MALE PARTICIPANT: Well, it's IAEA and our
liaison over there (inaudible).

KATHY: Hi.

DAVE: Hello, (indiscernable, possibly
gal).

KATHY: Hey, Dave. It's Kathy (phonetic)
again.

DAVE: Hi, Kathy. How's it going?

KATHY: 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?

DAVE: Well, yes. Sure. More (inaudible)
the bridge line number?

MALE PARTICIPANT: Like somebody like a Dan
Blumenthal, that could call in and have a conversation
with our Executive Team?

DAVE: Definitely, if you can give me the
phone number, we'll have our leadership call in.

MALE PARTICIPANT: All right. It's 301.

DAVE: 301.

MALE PARTICIPANT: 816.

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1 DAVE: 816.

2 MALE PARTICIPANT: 5100.

3 DAVE: 5100.

4 MALE PARTICIPANT: And that's our Operations
5 Officers. And just tell them that you want to be
6 (inaudible), who you are and that you want to be placed
7 on the Executive Team bridge, or the Executive Team is
8 waiting for your phone call. And I'll go talk to them
9 right now, so they'll be expecting it.

10 DAVE: Okay.

11 MALE PARTICIPANT: All right. Thanks.

12 DAVE: Sounds good.

13 KATHY: Thank you very much.

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(CONFERENCE CALL INITIATED)

STACEY ROSENBERG: Hello, this is Stacey Rosenberg.

MARK: Hello, Stacey this is Mark. I've got somebody on the line from the FAA, and they are wondering about if they should re-route flights because of the plume? And I'm going to transfer him to you. Okay?

STACEY ROSENBERG: Okay.

MARK: Transferring now.

STACEY ROSENBERG: Thank you.

GARY MILLER: Hello.

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

GARY MILLER: Hi, how are you?

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

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

STACEY ROSENBERG: Okay, Hi.

GARY MILLER: Yes, hey. I've got a question from one of our centers about this plume cloud and all that. The question that we're having from our center, which owns, it's Open Center, which owns about three

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1 fourths of the Pacific Ocean, from an air traffic
2 perspective.

3 STACEY ROSENBERG: Yes.

4 GARY MILLER: Once the cloud enters -- hold
5 on one second. Headquarters, (inaudible) -- if an
6 aircraft or US flight carrier, Northwest, Delta, United,
7 American, Continental, anyone, flies through that cloud,
8 is there anything that we need to be concerned about?
9 Will the atmosphere, the aircraft as it's continuing
10 to fly to the United States the next 2500 miles, would
11 it clear everything away from the aircraft? Or everything
12 off of the outer shell of the aircraft?

13 BRUCE WATSON: This is Bruce Watson. First
14 of all, the releases from the Japanese reactor have been
15 very limited. And they are pretty much non-consequential
16 from a dose or radioactive materials stand point. And
17 so there's really no issue at this point with any
18 radioactive cloud to be concerned about.

19 GARY MILLER: Okay. So what we're going
20 to do is I'm going to tell the centers that are working
21 all these airplanes that if a cloud, if an aircraft actually
22 flies through a cloud --

23 BRUCE WATSON: Well they won't see it.

24 GARY MILLER: Okay. Yes, we've already have
25 diverts around it already. Delta is already diverting

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1 around it, that there is no threat to the aircraft and
2 we can continue normal operations --

3 BRUCE WATSON: Correct.

4 GARY MILLER: Like we would do on our normal
5 routings across the Pacific. And we have no concerns
6 upon arrival in the United States?

7 BRUCE WATSON: Right.

8 GARY MILLER: That's what I'll tell them.
9 Thanks a lot. Appreciate it.

10 BRUCE WATSON: Okay.

11 GARY MILLER: Bye.

12 BRUCE WATSON: Thank you.
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(CONFERENCE CALL INITIATED)

BRENDA: May I assist? This is Brenda.

FEMALE PARTICIPANT: Hey, Brenda. It's
NRC.

BRENDA: Hi, guys. How are you doing?

FEMALE PARTICIPANT: So, (inaudible).
We're reviewing (inaudible) and we're pretty pleased
with it.

BRENDA: Okay.

FEMALE PARTICIPANT: Yes. I think we're
in good shape.

MALE PARTICIPANT: It's a (inaudible).

FEMALE PARTICIPANT: It correlates pretty well
with what we did.

MALE PARTICIPANT: I'll tell you, it
correlates really well Brenda, almost perfectly. The
thyroid CDE, we're about a factor of ten low, compared
to the distances out that you project.

BRENDA: Yes.

MALE PARTICIPANT: But I think that's
acceptable.

BRENDA: Yes.

MALE PARTICIPANT: So we would say it's our
product. It's representative of 10 percent core damage,

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1 in the ballpark. (b)(5)

2 (b)(5)

3 BRENDA: Yes.

4 MALE PARTICIPANT: It's probably, (b)(5)

5 (b)(5)

6 (b)(5)

so you can share it if you

7 want. People can scale it, if necessary.

8 BRENDA: Great.

9 FEMALE PARTICIPANT: (inaudible) double
10 check the (inaudible).

11 MALE PARTICIPANT: Okay, (inaudible). So
12 we're just saying we QC'd it and that's how we see it.
13 You do with it as you see fit at this time.

14 BRENDA: Okay. Well I'll let Dave know that
15 you guys have looked at it, and feel comfortable with
16 it as it is. And we'll see what they want to do from
17 there.

18 MALE PARTICIPANT: Well, we just have to
19 make sure we get the message if you release it. We just
20 have to say it's a hypothetical, approximately ten percent
21 format, which may not be representative of the current
22 state of affairs.

23 BRENDA: Exactly.

24 MALE PARTICIPANT: Right.

25 BRENDA: Exactly. And there's a lot of

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1 wording I think on the plots that I would have to change
2 before it went anywhere, to make sure we had all that
3 spelled out.

4 MALE PARTICIPANT: All right. We're --

5 BRENDA: Well thank you.

6 MALE PARTICIPANT: We've got a big one.
7 We've got a RASCAL run already completed that would be
8 a total core melt, (b)(5)

9 (b)(5)

10 BRENDA: Okay.

11 MALE PARTICIPANT: (b)(5)

12 (b)(5)

13 BRENDA: (b)(5)

14 (b)(5)

15 MALE PARTICIPANT: (b)(5)

16 (b)(5)

17 BRENDA: All right.

18 MALE PARTICIPANT: But here's one thing,
19 if you talk to your DOE counterparts, we know you have
20 a liaison over there in Japan.

21 BRENDA: Yes.

22 MALE PARTICIPANT: That guy should be
23 informed about any field readings that they are getting.

24 BRENDA: Okay.

25 MALE PARTICIPANT: That's the real key right

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1 now. If there's been radioactivity contamination
2 released, they should be measuring it, almost --

3 FEMALE PARTICIPANT: Yes, because we've been
4 seeing some escalating news reports, (inaudible).

5 MALE PARTICIPANT: Yes, yes. They should
6 know the answer already, and --

7 BRENDA: Great, I --

8 MALE PARTICIPANT: That'll help us
9 characterize the RASCAL, next RASCAL run I do.

10 BRENDA: Okay, exactly. Yes, and I've been
11 seeing the news stories too. And it seems like if they
12 actually had a complete melt down, blow up, people would
13 be talking more. People would be more excited about
14 it, it seems, it would seem.

15 FEMALE PARTICIPANT: Or we'd have some
16 interim measurements.

17 MALE PARTICIPANT: Unless they all ran, they
18 said to get out of it.

19 BRENDA: Yes.

20 MALE PARTICIPANT: Who knows. But it seems
21 like that information should be immediately available,
22 and will help us confirm what's going on.

23 BRENDA: Okay. Okay, I will let them know
24 that. Thanks for everything.

25 MALE PARTICIPANT: Thank you. That was a

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1 nice quick run, appreciate it.

2 BREND A: Yes, well I appreciate, I
3 appreciate you cutting down the number of nuclides for
4 me. That helped out a lot.

5 MALE PARTICIPANT: That CSV (phonetic) file,
6 you can't just pull it right in?

7 BREND A: I'm sorry?

8 MALE PARTICIPANT: We also sent you the
9 CSV --

10 BREND A: Oh, yes. And I can suck that right
11 in, so all I did was take that CSV file, took out the
12 nuclides that I wasn't going to run, and just sucked
13 it right in and ran it.

14 MALE PARTICIPANT: So if you just kept them
15 all in, wouldn't it be just as same?

16 BREND A: Oh, to run them all, what isn't
17 slow is me putting them in, what's slow is the model
18 running all those nuclides.

19 MALE PARTICIPANT: Oh, okay.

20 BREND A: Because it does the whole decay
21 chain, in growth thing, and it --

22 MALE PARTICIPANT: Slows down.

23 BREND A: It takes a long time.

24 MALE PARTICIPANT: I understand how it --

25 BREND A: Yes. So yes, I don't have to type

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1 anything in, thankfully. Okay.

2 MALE PARTICIPANT: All right. I'm clear,
3 all right. And keep up the good work, we'll talk to
4 you soon.

5 BRENDA: All right. Thanks, guys. Good
6 night. Bye, bye.

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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Welcome to the TeleVantage Conference Manager. There are currently two, people in the conference. Please hold while we connect you. Please say your name.

KATHY: NRC.

AUTOMATED MESSAGE: Thank you.

KATHY: Hey. It's NRC, sorry, I forgot to call in. I come in at five, they asked me for five.

MALE PARTICIPANT: Kathy we got a, we're in the operations here and NARAC is on also.

KATHY: (inaudible). Okay, so you got some questions for us?

MALE PARTICIPANT: I wanted to make sure that you guys had reviewed this modeling product that Brenda put together. I had a question, which I'll just throw out there, which Brenda may have answered, but, so we do a lot of ingestion pathway exercises, (inaudible) you guys.

So I haven't done any recently but I used to do them like, five and ten years ago. And (inaudible) for this, and Brenda confirmed that, it's actually smaller than what we usually run for a domestic ingestion pathway exercise. But I don't believe we ever released ten percent

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1 of the core? So I guess the explanation is, it's still
2 in containment somehow and we're really not releasing
3 ten percent of the core? Is that --

4 MALE PARTICIPANT: Okay. What we said was,
5 is we had ten percent core melt. It was then being released
6 at the design leakage of the containment.

7 MALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: Which is 25 percent per
9 day, 25 percent volume per day.

10 MALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: So it's really well
12 contained.

13 MALE PARTICIPANT: So, have you guys
14 reviewed the product, and I mean does it look reasonable
15 to you?

16 MALE PARTICIPANT: Yes, we did and it looks
17 good. We're right on with the TEDE and the thyroid,
18 we're about a factor of ten low, but I think that's fine.

19 MALE PARTICIPANT: Yes, in this particular
20 run, since you brought up the ingestion pathway, is that
21 we filtered out the radio nuclides we sent Brenda, at
22 her request. And what we sent was the nuclides that
23 were more predominate for the plume exposure pathway.

24 So if you're looking for long lived type of stuff, it
25 wasn't there.

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1 MALE PARTICIPANT: Actually I'm thinking,
2 which wouldn't have made much difference. At Chernobyl
3 they'll give you the impact.

4 MALE PARTICIPANT: I don't think they're
5 going to want to talk about that any.

6 KATHY: Okay.

7 LOU: So, are we talking to Dave Bowman here?

8 DAVE BOWMAN: I'm here Lou (phonetic).

9 LOU: Okay.

10 KATHY: Did we answer your question?

11 MALE PARTICIPANT: Was there a question,
12 I'm sorry, but I?

13 MALE PARTICIPANT: No did that answer your
14 question?

15 OPERATIONS MALE PARTICIPANT: Oh, yes. You
16 answered it.

17 MALE PARTICIPANT: Okay.

18 MALE PARTICIPANT: Just wanted to make sure
19 you were on board. So we'll, we'll go ahead and deliver
20 this to our administrator for, I still don't know what
21 time the deputy's meeting is. But I expect him to come,
22 you know, he'll be here beforehand to get himself prepared
23 for it.

24 MALE PARTICIPANT: All right. Dave we did
25 another run where we tried to model 40 percent core damage,

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1 but still with a pretty intact containment. And in that
2 case even though you had four times as much damage, it
3 just pushed the impact out about twice as far. Not much.

4 MALE PARTICIPANT: So, you got that Dave?
5 Noted that down? 40 percent?

6 DAVE: Yes. And it still was design
7 containment?

8 MALE PARTICIPANT: Yes, we're using that
9 scenario where it's pretty well contained. It's like
10 a TMI scenario. You don't get much out of it.

11 MALE PARTICIPANT: Recognize from the caveat
12 that those, that assumption may not be particularly valid.
13 But we haven't been able to get more definitive
14 information.

15 MALE PARTICIPANT: (inaudible) with some
16 of the information in news media.

17 MALE PARTICIPANT: Yes. After watching
18 that explosion, that situation may have changed
19 drastically.

20 MALE PARTICIPANT: Does anybody at NRC know
21 what building that might have been that exploded?
22 Because we heard it was the turbine.

23 MALE PARTICIPANT: Lot of speculation here,
24 we can't quite make sense out of it, but I'll tell you
25 one thing. If it was the reactor vessel that released

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1 a lot of the core, we should get Field Team readings
2 that confirm that and they should be in place right now.

3 Somebody should be able to report that.

4 MALE PARTICIPANT: Reported a value of about
5 100 millirem per hour, measured on the ground. We're
6 not sure where, or how that was measured.

7 KATHY: Or when?

8 MALE PARTICIPANT: That's not a very
9 characteristic of the entire core being blown around.

10 KATHY: Do you know when that measurement
11 was? After the explosion, or before?

12 MALE PARTICIPANT: No, we don't have anymore
13 information than you have.

14 KATHY: Okay.

15 MALE PARTICIPANT: Yes, we need, when that
16 data comes in, we need how far out, in what direction,
17 and how much was actually measured? We can size up our
18 RASCAL estimates if we get that kind of information.

19 MALE PARTICIPANT: Brenda, you still on
20 line?

21 BRENDA: Yes, I'm here.

22 MALE PARTICIPANT: Earlier today, we're
23 really not to sure where it came from, but I'm wondering
24 if your at all familiar with this. NOAA ran something
25 called a HYSPLIT Model?

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1 BREND A: Yes.

2 MALE PARTICIPANT: And they have a
3 trajectory plot that shows one of the trajectories coming
4 over Alaska.

5 BREND A: Yes.

6 MALE PARTICIPANT: Did your data go out that
7 far?

8 BREND A: We can, yes, we can track it that
9 far. It takes a few days for it to get that far. But
10 yes.

11 MALE PARTICIPANT: Thank you. That may be
12 all I need to know.

13 MALE PARTICIPANT: It's a matter of what
14 levels of activity you'll see that far down?

15 KATHY: Steve, you think you understand the
16 plot --

17 STEVE: Yes, it's the --

18 MALE PARTICIPANT: Different altitudes.

19 STEVE: Different altitudes, and different
20 wind speeds and it's going to take a couple days for
21 it to make that point. And by that time we should have
22 much better data.

23 MALE PARTICIPANT: It would be premature
24 to do anything for Alaska.

25 BREND A: Yes.

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1 STEVE: Oh, Yes. Yes.

2 MALE PARTICIPANT: Thank you. That helps.

3 KATHY: All right. Did we do it for this
4 call?

5 MALE PARTICIPANT: Anything else?

6 DAVE: I'm just tracking some emails here from,
7 it's our leadership, and I guess also Gregory Jaczko,
8 (inaudible).

9 KATHY: Yes.

10 DAVE: Looks like, the discussion in the
11 email is about doing some modeling (b)(5)

12 (b)(5)

13 MALE PARTICIPANT: Yes, we did that, we've
14 done that run already, Dave. (b)(5)

15 (b)(5)

16
17
18
19
20 MALE PARTICIPANT: (b)(5)

21 (b)(5)

22 until we know more about the
23 reactor. Where this explosion occurred?

24 MALE PARTICIPANT: Yes. That's right.
25 We're not anywhere near convinced that, that's what
happened out there.

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1 MALE PARTICIPANT: (b)(5)

2 (b)(5) you know, believe it's the turbine
3 building, you know, the generators and the buck (phonetic)
4 stocks and for the electrical distribution are hydrogen
5 cooled.

6 So there is a significant ignition source
7 in the turbine building. (b)(5)

8 (b)(5)

11 (b)(5)

13 (b)(5)

So those

14 field measurements are critical.

15 MALE PARTICIPANT: Right. They should be,
16 if there's a real concern, there should be measurements
17 in place right now that somebody can report.

18 MALE PARTICIPANT: Okay. So I'm trying to
19 capture all this. You said the design containment is .5
20 percent per day?

21 MALE PARTICIPANT: That's for this
22 particular US plant, that we're using to model the one
23 in Japan. That's our closest US plant that could represent
24 them. And it's a little bit higher power. So what we're
25 projecting in our RASCAL results are probably 20 percent

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1 higher than that reactor would be in Japan.

2 MALE PARTICIPANT: Well, would it make sense
3 to send us the data on this armageddon scenario, so that
4 NARAC has it?

5 MALE PARTICIPANT: We can share it with you
6 as long as --

7 MALE PARTICIPANT: That doesn't go anywhere
8 --

9 MALE PARTICIPANT: You know that it's a lot
10 of caveats go with that thing.

11 MALE PARTICIPANT: It's very speculative.

12 MALE PARTICIPANT: You want us to send it
13 to NARAC?

14 MALE PARTICIPANT: Yes, please.

15 MALE PARTICIPANT: All right.

16 KATHY: No problem.

17 MALE PARTICIPANT: (inaudible).

18 KATHY: Anything else for us?

19 MALE PARTICIPANT: Unless anyone else has
20 anything?

21 BRENDA: This is Brenda, Dave. Do you guys
22 need me to do anything to that report, or is it kosher
23 as it is?

24 DAVE: We're happy with the report.

25 MALE PARTICIPANT: Caught a few little

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1 things, but I think it's, you know, 95 percent there,
2 so.

3 BRENDA: Okay. You let me know then.

4 MALE PARTICIPANT: Okay.

5 DAVE: Thank you, Brenda.

6 MALE PARTICIPANT: Thank you NRC.

7 MALE PARTICIPANT: Thank you, all right.
8 Talk to you later.

9 KATHY: All right. See you.

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(CONFERENCE CALL INITIATED)

HEADQUARTERS OPERATIONS OFFICER: Get Mckenzie (phonetic) and see what number he has or phone.

FEMALE PARTICIPANT: Hello.

HEADQUARTERS OPERATIONS OFFICER: Hello, this is the Headquarters Operations Officer. I have someone from plume modeling, standing by on the line.

FEMALE PARTICIPANT: Okay.

HEADQUARTERS OPERATIONS OFFICER: Can I put them through to this call, to this phone?

FEMALE PARTICIPANT: Okay.

MALE PARTICIPANT: Sure.

HEADQUARTERS OPERATIONS OFFICER: Okay. Stand by, I'm connecting you now.

MALE PARTICIPANT: That's what we actually told NARAC (inaudible) when they called in. See what they want now.

(Crosstalk)

MALE PARTICIPANT: We've been using Weesta (phonetic) Creek as a surrogate. You know, Weesta creek is a site, we have about 25 percent higher power level.

MALE PARTICIPANT: Oyster Creek is a very similar design with isolation condensers, and I used to work there, so I'm very familiar with (inaudible),

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1 and (inaudible). We didn't have a 480 megawatts plant
2 to compare with. So this thing might out to be a (inaudible)
3 convenient, you knew it was 25 percent more thermal than
4 electric power, so it's an easy fact to deal with.

5 FEMALE PARTICIPANT: Hello?

6 BRENDA POBANZ: Hello?

7 MALE PARTICIPANT: Sorry, I'm (inaudible).

8 FEMALE PARTICIPANT: Hi. This is NRC
9 Headquarters Operations Center. Who's on the line?

10 BRENDA POBANZ: This is Brenda Pobanz from
11 NARAC.

12 MALE PARTICIPANT: Hi, Brenda.

13 BRENDA POBANZ: I shared with Lou the worse
14 case, short term calculations.

15 MALE PARTICIPANT: Would you say that again,
16 please Brenda?

17 BRENDA PABANZ: I did the worse case that
18 you guys sent me.

19 MALE PARTICIPANT: Yes.

20 BRENDA POBANZ: I had shared that with Lou.

21 MALE PARTICIPANT: Oh, you were going to
22 share with Lou?

23 BRENDA POBANZ: I did.

24 MALE PARTICIPANT: Oh, you already shared
25 it with Lou. Okay.

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1 BREND A POBANZ: I did.

2 MALE PARTICIPANT: I'm getting out of here,
3 what's going on?

4 MALE PARTICIPANT: The, Brenda, you, the
5 run you requested from Brenda?

6 MALE PARTICIPANT: Oh, yes.

7 BREND A POBANZ: You have that?

8 MALE PARTICIPANT: Got them.

9 MALE PARTICIPANT: Yes. It's here and I
10 need to give --

11 MALE PARTICIPANT: You know Brenda, we
12 weren't going to release that one?

13 BREND A POBANZ: Oh, no. No, that's just
14 informational purposes. That's all.

15 MALE PARTICIPANT: Okay.

16 BREND A POBANZ: (b)(5)
17 (b)(5)

18 (Crosstalk)

19 MALE PARTICIPANT: So I need to give you
20 access to my NARAC --

21 FEMALE PARTICIPANT: I'm sorry, Brenda.
22 You're from NARAC?

23 BREND A POBANZ: Yes.

24 FEMALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: This is the worst case

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1 one?

2 BREND A POBANZ: Yes.

3 MALE PARTICIPANT: And this is dated March
4 12th, at 9 UTC? I guess 0900 UTC?

5 BREND A POBANZ: Let's see, you're looking
6 at?

7 MALE PARTICIPANT: Set two?

8 BREND A POBANZ: No, that is not the worst
9 case. There's one called, it actually says, Worst Case
10 on it.

11 MALE PARTICIPANT: Lou, that isn't the one.

12 LOU: Okay, we're just trying to verify that
13 we've got it in hand.

14 MALE PARTICIPANT: Remember you asked for
15 the worst case one?

16 MALE PARTICIPANT: They didn't run it on
17 the worst case.

18 MALE PARTICIPANT: No, we just sent them
19 the worst case, and we were not planning on having them
20 --

21 MALE PARTICIPANT: But they did run it.

22 MALE PARTICIPANT: They're not going to
23 release it.

24 BREND A POBANZ: No, we won't release it.

25 MALE PARTICIPANT: But you did run it?

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1 MALE PARTICIPANT: You did --

2 BRENDA POBANZ: We just ran it because Bowman
3 wanted me to run it, so I did.

4 MALE PARTICIPANT: All right so we can print
5 it and share it here.

6 MALE PARTICIPANT: Right. Well I haven't
7 even looked at it yet, but we'll do that right now.

8 MALE PARTICIPANT: Do we have a number to
9 call her back?

10 FEMALE PARTICIPANT: If they want to
11 (inaudible) --

12 MALE PARTICIPANT: There's a whole bunch
13 of phone numbers in here.

14 MALE PARTICIPANT: Verify that we have the
15 correct phone number to get her back.

16 FEMALE PARTICIPANT: Okay, Brenda. Your
17 phone number is 925-422-9100?

18 BRENDA POBANZ: That's it.

19 FEMALE PARTICIPANT: Okay.

20 (Crosstalk)

21 MALE PARTICIPANT: Okay. Who's going to
22 find that print out of, what did you want us to do with
23 it?

24 BRENDA POBANZ: I just wanted, because Dave
25 asked me to run it, and he wanted to see it. I wanted

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1 to make sure you guys had seen it.

2 MALE PARTICIPANT: Okay.

3 BRENDA POBANZ: That's it, I --

4 MALE PARTICIPANT: We're not planning --

5 BRENDA POBANZ: We're not planning for it
6 to go anywhere. He just wanted to see it, and I wanted
7 to make sure if I let him see it, that you guys had it.

8 MALE PARTICIPANT: Well, okay. No problem.

9 BRUCE WATSON: Brenda, just so you know,
10 Stacey is replacing Lou on our shift rotation.

11 STACEY ROSENBERG: I'm actually replacing
12 Kathryn Brock.

13 BRUCE WATSON: Okay.

14 STACEY ROSENBERG: Stacy Rosenberg, yes.

15 BRUCE WATSON: I'm sorry, I (inaudible).
16 And this is Bruce Watson, I'm replacing Steve Lavie.

17 BRENDA POBANZ: Okay.

18 BRUCE WATSON: And so you'll be dealing with,
19 we'll be here during the day, today.

20 BRENDA POBANZ: Okay.

21 BRUCE WATSON: Just so you know that when
22 you hear some new voices, that there's supposed to be
23 new voices.

24 BRENDA POBANZ: Okay.

25 MALE PARTICIPANT: Are you going to get to

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1 go to home soon, Brenda?

2 BREND A POBANZ: In about an hour.

3 MALE PARTICIPANT: Okay.

4 BREND A POBANZ: Then others will show up.

5 MALE PARTICIPANT: We're going to print out
6 your most recent run and take a look at it and then we'll
7 give you a call back when we've had a chance to take
8 a look at it.

9 BREND A POBANZ: Okay.

10 MALE PARTICIPANT: Okay?

11 BREND A POBANZ: All right. Thank you guys.

12 MALE PARTICIPANT: No. Thank you.

13 BREND A POBANZ: You bet.

14 MALE PARTICIPANT: Bye, bye.

15 BREND A POBANZ: Bye, bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Hello, this is Headquarters Operations Center, Protective Measures Team.

GEORGE ATHEY: Yes, this is George Athey, is Lou Brandon there?

FEMALE PARTICIPANT: Lou is not here. We

--

GEORGE ATHEY: Did someone try to call me?

FEMALE PARTICIPANT: Oh, did someone?

PROSANTA CHOWDHURY: No. Hey, George. This is Prosanta.

GEORGE ATHEY: Hey, Prosanta.

PROSANTA CHOWDHURY: I don't know if anyone tried to call you from this phone.

GEORGE ATHEY: My cell phone just, about five minutes ago had a call from the Operations Center, and I called the Duty Officer and he had no clue. So, all right. Well, I'll try to monitor my cell phone if somebody is trying to reach me.

PROSANTA CHOWDHURY: Okay. Do you have the number displayed there?

GEORGE ATHEY: Yes, it was the Duty Officer, 5100.

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1 PROSANTA CHOWDHURY: Oh, okay. Maybe
2 though just a black call?

3 GEORGE ATHEY: Okay.

4 PROSANTA CHOWDHURY: Because we are at the
5 Ops Center right now.

6 GEORGE ATHEY: Yes.

7 PROSANTA CHOWDHURY: Monitoring the Japan
8 situation. And I don't know whether Lou wanted you to
9 help us out here with any mapping or anything. I don't
10 know. He did not turn that over to me at all.

11 GEORGE ATHEY: Okay.

12 PROSANTA CHOWDHURY: So.

13 GEORGE ATHEY: Well I'll just stand by and
14 monitor my phone. If he needs me, he can call me.

15 PROSANTA CHOWDHURY: Okay.

16 GEORGE ATHEY: Thanks.

17 PROSANTA CHOWDHURY: So, I don't have your
18 phone number.

19 GEORGE ATHEY: Well my cell number is

20 (b)(6)

21 PROSANTA CHOWDHURY: Okay.

(b)(6)

22 GEORGE ATHEY: Correct.

23 PROSANTA CHOWDHURY: Okay.

24 GEORGE ATHEY: Thanks Prosanta.

25 PROSANTA CHOWDHURY: Thank you.

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1 GEORGE ATHEY: Bye, bye.
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(No words to transcribe.)

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(CONFERENCE CALL INITIATED)

PHILIP VOGT: NARAC, IMAAC Center, this is
Phil Vogt speaking.

STACEY ROSENBERG: Hi. This is Stacey
Rosenberg at the NRC Headquarters.

PHILIP VOGT: Good morning, Stacey. Can
we turn down the TV please?

STACEY ROSENBERG: Can you turn down the
TV please?

MALE PARTICIPANT: Hey, I did get a call
from a guy that --

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

(Crosstalk)

PHILIP VOGT: Can you hold on one second
while we make some adjustments here?

MALE PARTICIPANT: Yes.

PHILIP VOGT: I got a call from NRC, but
there's several people on the line. I don't know what's
going on.

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(CONFERENCE CALL INITIATED)

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

PHILIP VOGT: Yes, Stacey.

STACEY ROSENBERG: We were wondering if we could get some updated information possibly? Maybe some MET data and current forecasts?

PHILIP VOGT: Updated MET data and current forecasts.

STACEY ROSENBERG: And any other information you might have.

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

BRUCE WATSON: Yes.

PHILIP VOGT: Short term wise.

BRUCE WATSON: Okay.

PHILIP VOGT: And we would obviously wait until after, some kind of release probably, before we do something like that again.

BRUCE WATSON: Okay.

PHILIP VOGT: But we can look at the updated meteorological data, and current forecasts. Yes, and get back to you guys.

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1 BRUCE WATSON: Okay.

2 STACEY ROSENBERG: Okay.

3 BRUCE WATSON: And who's this again?

4 PHILIP VOGT: This is Philip Vogt. I'm part
5 of the day staff (inaudible).

6 BRUCE WATSON: Okay. We know Brenda --

7 PHILIP VOGT: John Nasstrom normally answers
8 the calls, but he was on another line, so.

9 STACEY ROSENBERG: Philip Vogt?

10 PHILIP VOGT: Philip Vogt, yes.

11 BRUCE WATSON: And who else did you say is
12 normally there?

13 PHILIP VOGT: John Nasstrom.

14 BRUCE WATSON: Okay.

15 PHILIP VOGT: He's our day time manager
16 today.

17 BRUCE WATSON: Okay. Stacey has already
18 introduced herself. This is Bruce Watson and we do the,
19 I, my, we do the dose assessment and we're just trying
20 to get some feel for what we might look at in the future,
21 so.

22 PHILIP VOGT: Okay.

23 STACEY ROSENBERG: You, FYI (inaudible).

24 BRUCE WATSON: Okay. And if we hear anything
25 we'll call you guys. If not, you hear anything, call

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1 us please.

2 PHILIP VOGT: Yes.

3 STACEY ROSENBERG: Okay, so if you want to
4 send us an email, I think we prefer a phone call though
5 usually. But if you want to send us an email, it's capital
6 P-M-T.

7 PHILIP VOGT: Capital P, as in pizza?

8 STACEY ROSENBERG: Yes, Pizza, Mary, Thomas.

9 PHILIP VOGT: Mary, got you.

10 STACEY ROSENBERG: Yes. So all capitals,
11 zero, two, dot, capital H, as in Henry, small O-C @
12 N-R-C.gov.

13 PHILIP VOGT: .G-O-V. So pizza, mike,
14 thomas, zero, two, dot, capital H, little o, little c
15 @NRC.gov.

16 STACEY ROSENBERG: Exactly.

17 BRUCE WATSON: Correct.

18 PHILIP VOGT: All right. We should have
19 that to you, give me about a half hour. I'm trying to
20 finish a couple other things and I'll send that to you.

21 STACEY ROSENBERG: Okay. Thank you very
22 much.

23 PHILIP VOGT: All right. No problem, Stacey.
24 It's nice talking to you guys.

25 STACEY ROSENBERG: You too, Philip.

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1 PHILIP VOGT: Bye, Bruce.

2 BRUCE WATSON: Thanks.

3 STACEY ROSENBERG: Bye.

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(CONFERENCE CALL INITIATED)

JOHN NASSTROM: NARAC, John Nasstrom.

STACEY ROSENBERG: Oh. Hi, John. This is Stacey Rosenberg at NRC Headquarters.

JOHN NASSTROM: Hi, Stacey.

STACEY ROSENBERG: I'm here with Bruce Watson. We just wanted to make sure, we wanted to verify with you that NARAC is not going to share or has not already shared the worst case scenario with anyone,

(b)(5)

JOHN NASSTROM: Yes, the, you know, we did the calculations, as you know. And DOE sees everything that we have, but they are not releasing that product. They are not even releasing some of the earlier products yet.

BRUCE WATSON: Okay.

JOHN NASSTROM:

(b)(5)

(b)(5)

BRUCE WATSON: We're getting lots of questions from --

STACEY ROSENBERG: State Department.

BRUCE WATSON:

(b)(5)

(b)(5)

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1 JOHN NASSTROM:

(b)(5)

2 (b)(5)

8 BRUCE WATSON:

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9 JOHN NASSTROM:

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11 BRUCE WATSON:

(b)(5)

12 JOHN NASSTROM:

13 (b)(5)

14 BRUCE WATSON:

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16 JOHN NASSTROM:

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17 STACEY ROSENBERG:

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19 JOHN NASSTROM:

(b)(5)

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21 STACEY ROSENBERG:

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22 BRUCE WATSON:

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23 JOHN NASSTROM:

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1 that have actually seen it.

2 STACEY ROSENBERG: Okay, very good.

3 BRUCE WATSON: All right. We'd called
4 earlier about getting some more recent MET, meteorological
5 data for the site and a forecast. And they said they
6 would be about a half an hour or so before they'd get
7 that to us, so.

8 JOHN NASSTROM: Yes, yes. We're working
9 on that right now. Okay.

10 BRUCE WATSON: We just wanted to confirm
11 that, since we hadn't talked to you specifically that
12 --

13 JOHN NASSTROM: And just to be clear on that.
14 You're looking for kind of current conditions in the
15 near term forecast? Right?

16 BRUCE WATSON: Right.

17 JOHN NASSTROM: Yes, okay.

18 BRUCE WATSON: In the event they do have
19 something crack open, we'd at least have an idea what's
20 going to happen.

21 JOHN NASSTROM: Yes. And as far as release
22 of plots, I think you know, we're on the same page with
23 DOE and you. But in general, keep in touch with the
24 DOE, NIT folks, as I think you are already. Because
25 they, you know --

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1 STACEY ROSENBERG: The DOE MET folks?

2 JOHN NASSTROM: No. Sorry, we call them
3 the NIT, Nuclear Incident Team. It's the DOE Headquarters
4 folks.

5 BRUCE WATSON: That's, I think it's, isn't
6 that Dan?

7 JOHN NASSTROM: Yes. It's yes, Dan
8 Blumenthal. I don't think he's actually there right
9 now, but the guy on duty is Bob Jarrell, but --

10 BRUCE WATSON: Okay.

11 JOHN NASSTROM: Let me give you that number
12 just because, I think you probably have it.

13 BRUCE WATSON: I think we have it 202-287-22,
14 2355?

15 JOHN NASSTROM: That might be one of their
16 numbers, but let me give the general number that always
17 works.

18 BRUCE WATSON: Okay.

19 STACEY ROSENBERG: Okay.

20 BRUCE WATSON: Good idea.

21 JOHN NASSTROM: It's 202-586-8100.

22 BRUCE WATSON: That's the general number
23 for, for NIT?

24 JOHN NASSTROM: Yes, actually what, that'll
25 -- yes.

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1 BRUCE WATSON: This is where it's going to
2 tape?

3 JOHN NASSTROM: Yes. Right, and who will
4 answer that phone is the Duty Officer, the Watch Officer.

5 BRUCE WATSON: Okay, kind of like our HOO.

6 JOHN NASSTROM: Yes, and then what you do
7 is, you'll ask, pass them to the Nuclear Incident Team
8 and they'll connect you. But yes, so in fact I would,
9 if someone hasn't checked in with them recently --

10 BRUCE WATSON: Okay.

11 JOHN NASSTROM: I would call them and I think
12 it's, they're on the same page with you but it's probably
13 not a bad idea to reinforce that.

14 BRUCE WATSON: Okay.

15 JOHN NASSTROM: (b)(5)

16 (b)(5)

17 BRUCE WATSON: Okay.

18 JOHN NASSTROM: But I know having talked
19 with them this morning, they're exactly on the same page
20 with you.

21 BRUCE WATSON: Okay. Yes.

22 JOHN NASSTROM: They did talk about setting
23 up a conference call in a little while, to compare notes.

24 BRUCE WATSON: Okay.

25 JOHN NASSTROM: So I think you guys are

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1 included on that?

2 BRUCE WATSON: Right.

3 JOHN NASSTROM: But you can also just ask
4 them, you know, if they have a call scheduled? And when
5 should they call in?

6 BRUCE WATSON: Okay.

7 JOHN NASSTROM: All right?

8 BRUCE WATSON: Okay, well thank you.

9 JOHN NASSTROM: Sure. Thank you guys.

10 BRUCE WATSON: Right.

11 JOHN NASSTROM: And by-the-way, thanks for
12 all the support.

13 BRUCE WATSON: Okay, appreciate it
14 overnight.

15 STACEY ROSENBERG: We appreciate your
16 support.

17 JOHN NASSTROM: Okay. Bye, bye.

18 BRUCE WATSON: Okay. Bye, bye.
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(CONFERENCE CALL INITIATED)

MARK: This is Mark (phonetic).

(Crosstalk)

STACEY ROSENBERG: Hello?

MARK: Hello?

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

MARK: We don't have any scheduled conference calls at this point. But we'll certainly include you if we do.

STACEY ROSENBERG: Okay. You have it, do you have our number to call to let us know?

MARK: Well let me, I think we do, but let me grab it from you just in case.

STACEY ROSENBERG: Okay.

(Crosstalk)

STACEY ROSENBERG: Okay, ready?

MARK: Yes.

STACEY ROSENBERG: It's 301-816-45419.

MARK: Sorry, give me the last four again.

STACEY ROSENBERG: Okay. The last four is 5419. So again it'd be 301-816-5419.

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1 MARK: Great. We'll give you a call if we
2 have anything.

3 STACEY ROSENBERG: Okay. And we just wanted
4 to also confirm, because this the deal, we, Nuclear
5 Incident Team that I'm speaking with? Is that correct?

6 MARK: Correct.

7 STACEY ROSENBERG: Okay. And I just wanted
8 to confirm that our scenarios that we have run, especially
9 the worst case scenarios, have not been released outside
10 of the DOE?

11 MARK: Absolutely, yes.

(b)(5)

12 (b)(5)

13 (b)(5)

14 We're fielding

15 a lot of requests, but we can not distribute them outside
16 of DOE.

17 STACEY ROSENBERG: Okay, and you're not
18 planning to? Is that correct?

19 MARK: Correct.

20 STACEY ROSENBERG: Okay. Okay. Thank you
21 so much. And who am I talking to again?

22 MARK: My name is Mark Bragender (phonetic).

23 STACEY ROSENBERG: Okay, Mark. I'm Stacey
24 Rosenberg. All right, so I guess we'll hear from you
25 when you have another scheduled call. You'll give us

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1 a heads up, in advance. Is that correct?

2 MARK: Certainly will.

3 STACEY ROSENBERG: Okay. Thank you very
4 much.

5 MARK: All right. Bye.

6 STACEY ROSENBERG: Bye, bye. Thank you.

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(CONFERENCE CALL INITIATED)

ED: Hello, Ed Tupin.

BRUCE WATSON: Ed?

ED: Yes.

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

ED: Hey, Bruce. Thanks for calling back.

BRUCE WATSON: We were here, or at least I was here yesterday evening and came back in this morning. We've been monitoring. Pretty much all the issues are with Unit 1 at that Fukushima.

ED: Right.

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

ED: Well that's good news.

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

ED: Yes, in spite of whatever CNN says, huh?

BRUCE WATSON: I'm sorry.

ED: Unites States is (inaudible), and (inaudible) going.

BRUCE WATSON: Can you repeat that?

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1 ED: I said despite what CNN says, that
2 they've blown up the reactor.

3 BRUCE WATSON: Well they have released some
4 pressure from the containment or reactor vessel, which
5 is normal. But you know it's, they haven't melted any
6 fuel it looks like yet or anything like that. That would
7 really cause a significant (inaudible) burn.

8 ED: Okay, well that's --

9 BRUCE WATSON: Okay. We did, we've done
10 a number of dose modeling runs. The first one is if
11 they released the reactor coolant, which would result
12 in very little dose, if anything, off site.

13 And right now and over the night, the winds
14 have been out of the southwest, so all the, any emissions
15 or releases from the plant are blowing off shore, away
16 from the population centers.

17 ED: Okay.

18 BRUCE WATSON: And it looks like it's going
19 to stay that way pretty much through tonight, at least
20 that's how far forecast goes. Everything is going to
21 continue, pretty much dominating from the west going
22 east into the Pacific ocean.

23 We've done a number of other scenarios, with
24 GAP release, and even failed fuel. But we obviously
25 haven't reached those conditions. And they have

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1 evacuated 12 mile radius around the plant. I think they
2 call it (inaudible) melted kilometers.

3 ED: Yes, they're up to 20 kilometers, okay.

4 BRUCE WATSON: Yes, which is about 12 miles
5 I think.

6 ED: Yes.

7 BRUCE WATSON: So we're just here
8 monitoring.

9 ED: Yes.

10 BRUCE WATSON: They announced on the radio
11 that they had issued KI, or were going to issue KI this
12 morning.

13 ED: Okay.

14 BRUCE WATSON: So --

15 (Crosstalk)

16 BRUCE WATSON: That's pretty much the status.
17 I don't know if you had any specific questions?

18 ED: No, the biggest stat was, the biggest
19 issue was to do just what you just did. Get a rough,
20 you know, status of the (inaudible).

21 BRUCE WATSON: We're planning on staying
22 staffed here through the weekend, into Monday.

23 ED: Okay.

24 BRUCE WATSON: And so I guess we're still,
25 you know, the information we get is pretty sketchy.

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1 And we're working with DOE, and the National, well the
2 Nuclear Incident Team, and also we've had a number of
3 runs, dose modeling runs by NARAC of our data. And
4 everything is pretty much aligning up pretty well.

5 ED: Okay.

6 BRUCE WATSON: So, I mean we're doing what
7 we do. And hoping to get water on this core to cool
8 it down, and we can all go home.

9 ED: Yes. Yes. Okay, so (inaudible) on
10 maintaining, but.

11 BRUCE WATSON: Well most recent information
12 we had is they were going to use salt water and add boron
13 to it, and pump it in, which will cool it down and contain,
14 control the reactivity. So it might mess up their reactor
15 for a while, but that's better than melting fuel. Because
16 that will really mess up your reactor.

17 ED: Okay, well (inaudible).

18 (Crosstalk)

19 ED: Pour water on it, they probably got
20 replace the fuel load and some other stuff. But at least
21 they got a reactor they can --

22 BRUCE WATSON: Well those are all long term
23 decisions we have to work.

24 ED: Yes.

25 BRUCE WATSON: Any other questions that we

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1 can --

2 ED: This sounds pretty good for now.

3 BRUCE WATSON: We know the Chairman is on
4 his way down to the (inaudible) right now. And so I
5 guess that's as high level as it gets.

6 ED: Yes, that's, that's good. I appreciate
7 that.

8 BRUCE WATSON: Okay.

9 ED: Yes, let me make an offer. Would you
10 like me come down as Advisory Team Liaison for a while
11 or?

12 BRUCE WATSON: I think if we, only if we
13 hear that there's actually a release.

14 ED: Okay.

15 BRUCE WATSON: I mean, we're just, we're
16 at a kind of a short staff here, kind of doing our monitoring.
17 And so, you know, I mean it's not like we have we have
18 a full boat here either. I mean we have to be careful
19 what we tell people and release to the, even our inner
20 government people, because we don't want data getting
21 out that's not appropriate.

22 ED: Okay.

23 BRUCE WATSON: So, other than that, if they
24 do have another explosion and rip a hole in the containment,
25 yes, we'd probably appreciate some help.

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1 ED: All right. Well let me give you a cell
2 phone where you can reach me on, you know, anytime the
3 rest of the day, or the rest of the weekend actually.

4 Probably (inaudible) up the Advisory Team for the rest
5 of the weekend here.

6 BRUCE WATSON: Okay.

7 ED: (b)(6)

8 THE WITNESS: (b)(6)

9 ED: (b)(6)

10 BRUCE WATSON: (b)(6)

11 ED: (b)(6)

12 BRUCE WATSON: (b)(6) Okay, (b)(6)

13 STACEY ROSENBERG: No. (b)(6)

14 ED: (b)(6)

15 BRUCE WATSON: (b)(6) Okay, we got it right.

16 ED: Okay.

17 BRUCE WATSON: Okay, Ed.

18 ED: Great. Thank you, sir.

19 BRUCE WATSON: Right.

20 ED: Take care.

21 BRUCE WATSON: Bye.

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(CONFERENCE CALL INITIATED)

NIMA ASHKEBOUSSI: Protective Measures Team.

HEADQUARTERS OPERATIONS OFFICER: I've got Greg Casto on the line for you. Transferring you now.

NIMA ASHKEBOUSSI: Hi, this is Protective Measures Team.

GREG CASTO: Hi, this is Greg Casto. Who's this?

NIMA ASHKEBOUSSI: This is Nima Ashkeboussi.

GREG CASTO: Oh, hi. How are you doing?

NIMA ASHKEBOUSSI: Good.

GREG CASTO: Is Stacey Rosenberg there?

NIMA ASHKEBOUSSI: Stacey stepped out.

GREG CASTO: Okay, (inaudible), Bruce Watson, is he back?

NIMA ASHKEBOUSSI: Bruce is in the restroom right now.

GREG CASTO: Okay.

NIMA ASHKEBOUSSI: May I take a message right here, what was --

GREG CASTO: Okay, that's fine. Yes, could you just ask Stacey to give me a call?

NIMA ASHKEBOUSSI: Sure. What's it about?

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1 GREG CASTO: This is about my coming in
2 tonight. Just wanted to get an update to see what was
3 going on and --

4 NIMA ASHKEBOUSSI: Oh, okay.

5 GREG CASTO: What the next shift's status
6 was?

7 NIMA ASHKEBOUSSI: Okay, yes. I have that
8 information.

9 GREG CASTO: Oh, okay.

10 NIMA ASHKEBOUSSI: Stacey is, her shift ends
11 at 7 p.m. and we have you on the schedule coming in at
12 that time.

13 GREG CASTO: Okay, are we running another
14 shift, or?

15 NIMA ASHKEBOUSSI: Yes, we're running shifts
16 until Tuesday.

17 GREG CASTO: Until Tuesday. Okay. Okay.

18 NIMA ASHKEBOUSSI: So we now have you on
19 the schedule from 7 p.m. to 7 a.m.

20 GREG CASTO: Okay, all right. That's what
21 I need to know. If she wants to give me a call, let
22 me give you my number. She does need to. I'll be there
23 tonight. My number is (b)(6)

24 NIMA ASHKEBOUSSI: Okay.

25 GREG CASTO: (b)(6)

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1 NIMA ASHKEBOUSSI: Okay.

2 GREG CASTO: (b)(6)

3 NIMA ASHKEBOUSSI: That was (b)(6)

4 GREG CASTO: That's correct.

5 NIMA ASHKEBOUSSI: Okay, I'll let her know.

6 GREG CASTO: All right. Appreciate it.

7 NIMA ASHKEBOUSSI: All right. Thanks Greg.

8 GREG CASTO: Thanks. Bye.

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(CONFERENCE CALL INITIATED)

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

MIKE: US Department of Energy, Mike can
I help you?

STACEY ROSENBERG: Yes, this is Stacey
Rosenberg at the Nuclear Regulatory Commission
Headquarters, Protective Measures Team. And we just
wanted to get, if you have it, an update of any MET data.

MIKE: Okay, Stacey. Let me put you in
contact with the MET. Hold on a minute ma'am.

STACEY ROSENBERG: Oh, thank you.

MIKE: And could I get a good call back number
for you ma'am?

STACEY ROSENBERG: Yes, 301.

MIKE: Yes.

STACEY ROSENBERG: 816.

MIKE: Okay.

STACEY ROSENBERG: 5419.

MIKE: 5419er. Stand by.

BRUCE WATSON: Who is we were talking to
this morning? Jarrell?

STACEY ROSENBERG: Bob Jarrell.

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1 BRUCE WATSON: Yes.

2 STACEY ROSENBERG: And John, wait no, I want
3 to say John Vogt, but it Phil Vogt.

4 BRUCE WATSON: Phil Vogt. Yes.
5 (inaudible).

6 STACEY ROSENBERG: Help, I'm tired.

7 BRUCE WATSON: You can tell it's a 12 hour
8 day?

9 STACEY ROSENBERG: Yes. Did they just hang
10 up?

11 BRUCE WATSON: No, he's transferring it,
12 I think.

13 STACEY ROSENBERG: You think.

14 BRUCE WATSON: It's like we've got our HOO.
15 Oh, they have pretty music. That was pretty neat with
16 that roster. I guess they go through 42 people and say
17 who are you?

18 STACEY ROSENBERG: Yes.

19 BRUCE WATSON: But when you hear the tone,
20 tell us your name and who you are?

21 STACEY ROSENBERG: Yes. That was the bridge
22 line.

23 BRUCE WATSON: Yes. (inaudible).

24 (Crosstalk)

25 STACEY ROSENBERG: They're out, you know,

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1 (b)(6)

2 BRUCE WATSON: I'm still (inaudible).

3 STACEY ROSENBERG: Where is (inaudible)?

4 BRUCE WATSON: It's a fairy boat that's up
5 on land, because it got washed in. Kind of like what
6 happened down on the gulf.

7 MIKE: Sir, would you please standby, ma'am.
8 I going to see if I can try that call again. They got
9 disconnected.

10 STACEY ROSENBERG: Okay, thank you.

11 (Crosstalk)

12 MIKE: Okay, ma'am. What I'm going to have
13 to do is, I got your information. I'm going to have
14 to walk it back and just give it to them, and have them
15 to call you direct.

16 BRUCE WATSON: Okay.

17 STACEY ROSENBERG: Okay.

18 MIKE: Okay.

19 STACEY ROSENBERG: Thank you, we'll be here.

20 MIKE: Okay. Thank you.
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(CONFERENCE CALL INITIATED)

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

OPERATOR: Yes, Stacey I've got somebody from the DOE is looking for you. I'm going to connect him now.

STACEY ROSENBERG: Great. Thank you very much. Hello?

CHRIS SMITH: Hello.

STACEY ROSENBERG: Hi, this is Stacey Rosenberg, NRC Protective Measures Team.

CHRIS SMITH: Hi, Stacey. It's Chris Smith.

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

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

BRUCE WATSON: What we wanted to do, and I think we get this from NARAC? What we were looking for updated Meteorological data for this afternoon, and the forecast for the evening.

CHRIS SMITH: Okay.

BRUCE WATSON: And we thought we'd run it through you guys, rather than us calling them directly,

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1 since I think they are part of your team?

2 CHRIS SMITH: They, they are part of our
3 organization.

4 BRUCE WATSON: Yes, and so we thought we'd
5 run it through you guys, the request.

6 CHRIS SMITH: Okay, so are you guys out of
7 curiosity, generating plots also?

8 BRUCE WATSON: We haven't been doing really
9 any since, well we did one today, but we, you know, we
10 have very limited data on which to base them anymore,
11 so.

12 CHRIS SMITH: Exactly.

13 BRUCE WATSON: So, we've pretty much stopped
14 unless we have an event that would cause us to do some.

15 STACEY ROSENBERG: But we'd like to, you
16 know, see what's in MET data has changed at all.

17 CHRIS SMITH: Okay. So I certainly have
18 no issue with that. I assume you have the capability
19 to receive their digital information on MET data?

20 BRUCE WATSON: Yes. They sent us an email
21 last time.

22 CHRIS SMITH: Okay.

23 BRUCE WATSON: Okay.

24 STACEY ROSENBERG: That would be fine.

25 BRUCE WATSON: And (inaudible) called us

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1 just to confirm.

2 CHRIS SMITH: You want me to just give him
3 a call up and have him send it to you again?

4 BRUCE WATSON: Right.

5 STACEY ROSENBERG: Yes, they can send it
6 to the same email they sent it last time.

7 CHRIS SMITH: Okay.

8 STACEY ROSENBERG: Perfect. Thank you so
9 much.

10 CHRIS SMITH: Sure thing. Anything else?

11 BRUCE WATSON: No.

12 CHRIS SMITH: All right.

13 BRUCE WATSON: Thank you.

14 STACEY ROSENBERG: Okay, thank you.

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(CONFERENCE CALL INITIATED)

HEADQUARTERS OPERATIONS OFFICER: This is NRC OP Center, is anybody on the phone? They turn it down.

MALE PARTICIPANT: It's getting late.

HEADQUARTERS OPERATIONS OFFICER: Testing, testing. Anyone on the bridge line?

FEMALE PARTICIPANT: What time is it there?

HEADQUARTERS OPERATIONS OFFICER: Is DOE or NARAC on the bridge line?

MALE PARTICIPANT: All right, well we've got some phone numbers.

HEADQUARTERS OPERATIONS OFFICER: We can call them back. Well I can call them back right now.

MALE PARTICIPANT: If we get them back on the --

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(CONFERENCE CALL INITIATED)

GREG CASTO: I know that they are going to work all night.

MATTHEW: NARAC, this is Matthew (phonetic).

GREG CASTO: It's Greg Catro at the NRC.

MATTHEW: Yes, sir.

GREG CASTO: How are you?

MATTHEW: I'm good, how are you today?

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

MATTHEW: Okay.

GREG CASTO: You should have received the first one.

MATTHEW: Okay. My manager is on the phone right now. And so she probably would have received that. I don't think she's going to be on the phone that much longer.

GREG CASTO: Okay. What's her last name?

MATTHEW: She is off the phone, so --

GREG CASTO: Is it Brenda Pobanz?

MATTHEW: Yes, thanks.

GREG CASTO: Okay.

BRENDA: Hello, this is Brenda.

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1 GREG CASTO: Hi, Brenda.

2 LOU BRANDON: Hi, Brenda.

3 GREG CASTO: Greg Casto and Lou Brandon here
4 and a few others on the Protective Measures Team.

5 BRENDA: Hi, guys.

6 MALE PARTICIPANT: Hello.

7 GREG CASTO: Well, we're calling to
8 coordinate with you as we go forward into the evening.
9 Are you working all night?

10 BRENDA: I am.

11 GREG CASTO: Okay.

12 MALE PARTICIPANT: Lucky you.

13 BRENDA: Lucky me. I, we did receive the
14 source term from you guys at about 8 o'clock our time,
15 or so.

16 GREG CASTO: Okay, that source term in
17 perspective is just a normal coolant source term. So,
18 you know, we're not going to see much impact on that
19 Brenda?

20 BRENDA: Oh, I would expect not.

21 GREG CASTO: So we have two other scenarios
22 that we've run that progressively get worse, and then
23 they're asking us now to potentially model a TMI scenario.

24 BRENDA: Okay.

25 GREG CASTO: All of this stuff is just

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

3 BREND A: Yes, it takes me a long, there's
4 a lot of nuclides and a lot of time varying stuff in
5 there, so it's going to take me a while to run all these.

6 GREG CASTO: Are you doing it yourself?

7 BREND A: Yes.

8 GREG CASTO: Through the night. Okay.

9 KATHY BROCK: This is Kathy Brock. What's
10 a while, like is it under two hours, I don't have a
11 perspective.

12 BREND A: Oh it, for that many nuclides, it
13 could take 45 minutes for me to run one of those scenarios.

14 KATHY BROCK: Okay, that's good to know.
15 Thank you.

16 GREG CASTO: If we send you a CSV source
17 term file, can you automatically import that or do you
18 have to --

19 BREND A: If it's in the, if it's the RASCAL
20 CSV format, yes. I don't have to type it in, I can import
21 it.

22 KATHY BROCK: Great.

23 GREG CASTO: All right, so we sent on the
24 (inaudible) occasion and we'll continue to do that so
25 that'll make your life easier.

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1 BRENDA: It will. Just keep, making sure
2 I understand the time that was on it. Usually you guys
3 are running local time our of RASCAL. But that didn't
4 look like local time.

5 LOU: We had.

6 GREG CASTO: Good observation.

7 LOU: We're using UTC. Yes.

8 BRENDA: Okay, good.

9 GREG CASTO: So, I'm not sure that's good,
10 because RASCAL we use the MET data.

11 LOU: Depending on time of day, so --

12 BRENDA: Oh.

13 LOU: We should correct that.

14 GREG CASTO: But when you get it, you're
15 not using our MET data anyway. You're going to use --

16 BRENDA: Right I'm using, right I'm using
17 my MET, but I just need to make sure I'm getting the
18 timing right when I get it from you guys. So just make
19 a point in the email or whatever, if you switch back
20 to local Japan time. Make sure I get that.

21 LOU: Okay, so what, what's, what's the
22 difference between you and local Japan time?

23 BRENDA: Well, I'm going to run it in UTC.

24 GREG CASTO: Okay.

25 BRENDA: So if you could, if you give me

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1 local Japan time, I can convert. I just need to know
2 what it is.

3 LOU: I think we need to use UTC (inaudible).

4 GREG CASTO: Okay, so we'll keep it in UTC.

5 LOU: We should run, for RASCAL we should
6 run it local time.

7 GREG CASTO: Their local time.

8 LOU: Japan's local time.

9 GREG CASTO: Okay and --

10 LOU: Because RASCAL adopts whatever MET
11 we put in, and this may not affect you Brenda, but whatever
12 MET we put in, RASCAL will adapt that to the time of
13 day. So we should always use site time in a RASCAL run
14 to get a representative RASCAL run. We're going to compare
15 it against NARAC. If they're using real MET, with Japan's
16 MET and Japan's time, so.

17 MALE PARTICIPANT: Oh, okay.

18 LOU: Compared to purposes, we should have
19 got, we should correct that on our end.

20 GREG CASTO: Okay, okay, so.

21 LOU: And then I think that won't affect
22 you so much Brenda.

23 BRENDA: Okay, yes for me it's, I'm you know,
24 as long as I have the right time to match up with my
25 MET, I'm good.

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1 GREG CASTO: Okay, right time for what?

2 BRENDA: As long as it is apparent to me
3 what time, whether it's UTC, or Japan time that you're
4 starting, I will convert that --

5 GREG CASTO: Well you can synchronize it
6 so --

7 BRENDA: With the time, that (inaudible)
8 with the synchronized, with the MET that I have.

9 LOU: So your reports reflect the same time
10 as the RASCAL time.

11 BRENDA: Yes.

12 LOU: That'll help a lot as we compare and
13 contrast the visual program.

14 GREG CASTO: So we'll try and work through
15 these in the next few hours and then I understand there's
16 going to be a briefing to the White House early in the
17 morning using DOE and potentially NRC --

18 MALE PARTICIPANT: Yes.

19 GREG CASTO: Products.

20 BRENDA: Okay.

21 GREG CASTO: We're supposed to contact Dave
22 Bowman, I don't know if you've been talking to him
23 or not? Is he working tonight?

24 BRENDA: I don't know if he's working tonight.
25 We've been talking the MET, his, you know, DOE's response

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1 guys.

2 MALE PARTICIPANT: I talked to Dan
3 Blumenthal at DOE just a little while ago.

4 BRENDA: Yes.

5 MALE PARTICIPANT: And he's is getting ready
6 to turn over to Dave.

7 BRENDA: Okay.

8 MALE PARTICIPANT: So we were going to, after
9 we got off, we were going to make this call.

10 GREG CASTO: Okay.

11 MALE PARTICIPANT: After we got off this
12 call, we were going to make that call.

13 BRENDA: Okay.

14 MALE PARTICIPANT: And do a turn over and
15 we've got, earlier on, we were using the bridge.

16 BRENDA: Yes.

17 MALE PARTICIPANT: And we had to bridge phone
18 number, and that seemed to work well for a while as far
19 as getting everybody together. But then we left it on,
20 and after a while people I think got tired and dropped
21 off.

22 KATHY BROCK: Do you want to start it up
23 again?

24 MALE PARTICIPANT: But, we could start it
25 up again if that would, you, if that would work for you?

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1 BRENDA: That's fine for me. I'd be happy
2 to have it here and have it you know, call in on one
3 of the phones, so.

4 KATHY BROCK: You know the number?

5 MALE PARTICIPANT: I work with Kim, he can
6 man the bridge line if you want him to.

7 MALE PARTICIPANT: Okay.

8 BRENDA: What time is that briefing in the
9 morning? To give me a perspective of how long we've
10 got to work all this out.

11 MALE PARTICIPANT: No, I don't have a
12 specific time written down. It sounded like it was
13 reasonably early.

14 GREG CASTO: But I'm not sure what reasonably
15 early is. 8 o'clock maybe, 9 o'clock? But we'll find
16 out.

17 BRENDA: Okay.

18 KATHY BROCK: Can you think of anything else?

19 LOU: Anything else you need from us Brenda?

20 BRENDA: No. Just if you send me other source
21 terms, just prioritize them. Like I said, it takes me
22 a long time to run, so if you send me a couple, you know,
23 more than one at time make sure I know which one you
24 are more interested in seeing.

25 LOU: Okay. And then when you, as you finish

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1 those, you'll post them to the NARAC web?

2 BRENDA: I will post them to the web and
3 make sure you guys in DOE can see them.

4 LOU: And how will we know that they are
5 in there? Should I log in to my?

6 BRENDA: If you give me your number, I will
7 call you.

8 KATHY BROCK: Well would you call into --

9 BRENDA: Or if you have the bridge line up,
10 I'll let you know that way.

11 KATHY: Yes, justhollerbecause (inaudible)
12 here.

13 MALE PARTICIPANT: That'll work.

14 LOU: Do we need any back up NARAC accounts
15 for anybody besides myself to see these results? No?

16 KATHY BROCK: I've never gone into it, so.

17 LOU: All right. I think we're all set.

18 BRENDA: I can always email if I need to,
19 also.

20 GREG CASTO: Okay.

21 LOU: Okay.

22 MALE PARTICIPANT: Bring it up

23 MALE PARTICIPANT: I just came on shift,
24 stuff that goes to the PMT, I just kind of put PMT01,
25 I don't know what email account --

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1 MALE PARTICIPANT: It's a 02. Zero two.

2 MALE PARTICIPANT: Email account, you want
3 02, okay.

4 MALE PARTICIPANT: That's where we're
5 working actively.

6 MALE PARTICIPANT: I (inaudible) just came
7 in, and I didn't know if you guys wanted to see it or
8 not?

9 MALE PARTICIPANT: We'll take a look, but
10 I think we might need a password on that?

11 MALE PARTICIPANT: Until now, but it's --

12 MALE PARTICIPANT: Can you talk to somebody,
13 or just arrived?

14 KATHY BROCK: We're supposed to let Brenda
15 off the hook?

16 GREG CASTO: Okay. Brenda do you need
17 anything -- sorry, sorry Brenda, do you need anything
18 else from us?

19 BRENDA: I don't think so, is, do I need
20 a phone number to be able to contact you guys? Or is
21 it a?

22 KATHY BROCK: Yes, give her the bridge
23 number.

24 LOU: Well the bridge number or HOT number.

25 GREG CASTO: Yes, now the HOT number --

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1 MALE PARTICIPANT: We've got a direct line
2 also.

3 GREG CASTO: Okay. Lou knows these things.

4 LOU: Here's a direct line to the --

5 KATHY BROCK: I think we're training
6 everybody.

7 MALE PARTICIPANT: At least we know it.

8 GREG CASTO: Let's see, Protective Measures,
9 this will ring that phone right over there. It's
10 301-816-5184, Brenda.

11 BRENDA: Okay.

12 GREG CASTO: And if that does work, call
13 5100 and they can connect you to us back here.

14 BRENDA: Okay.

15 GREG CASTO: All right.

16 BRENDA: All right.

17 GREG CASTO: You want us to go ahead and
18 setup the bridge line or you want us to call you back
19 when we do it? Because we still have to call DOE, so.

20 BRENDA: Oh, why don't you just give me a
21 call or send me an email when you get it, and I'll call
22 in.

23 GREG CASTO: Okay, will do.

24 BRENDA: Okay.

25 GREG CASTO: Okay.

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1 KATHY BROCK: Thank you.

2 BRENDA: All right, thanks guys.

3 MALE PARTICIPANT: All right.

4 BRENDA: Bye, bye.

5 MALE PARTICIPANT: Bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Did you get him or no?

KATHRYN BROCK: Yes and I'm sorry I'm such
a fool.

FEMALE PARTICIPANT: So you did get him.

KATHRYN BROCK: Yes, and now we getting onto
a bridge.

FEMALE PARTICIPANT: Okay, Mike.

AUTOMATED MESSAGE: Welcome to the
TeleVantage Conference Manager. Please enter your
conference ID followed by the pound sign. There are
currently two, people in the conference. Please hold
while we connect you. Please say your name.

KATHRYN BROCK: Kathryn Brock, NRC.

(Crosstalk)

AUTOMATED MESSAGE: Thank you.

(Crosstalk)

KATHRYN BROCK: Hey, there.

(Crosstalk)

KATHRYN BROCK: Is anyone there?

BRENDA: Yes. This is Brenda (inaudible).

MALE PARTICIPANT: Incoming from DOE, we
have Brenda Pobanz from NARAC.

KATHRYN BROCK: Hey there.

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1 BREANDA: Okay.

2 KATHRYN BROCK: Great. I understand you
3 have some questions for us, Brenda?

4 BREANDA: Oh, no. I was, is this, like we
5 talked that initial run that you guys sent us, actually
6 is taking me even longer to run than I thought it was
7 going to, so.

8 KATHRYN BROCK: Okay.

9 BREANDA: When do we find the one that we
10 really want to use for his briefing, we definitely want
11 to do that one.

12 KATHRYN BROCK: Okay, good. Hey, Steve
13 (phonetic) what's our, when do you think we'll be able
14 to send them over to her?

15 STEVE: I think, schedule of fifteen
16 minutes.

17 BREANDA: Okay.

18 KATHRYN BROCK: Okay. And we'll --

19 BREANDA: So what I'm going to do is kill
20 the other one. Because it's just, it's plugging away
21 and there's no point.

22 STEVE: Okay.

23 BREANDA: Part of it is the number of nuclides,
24 you know, there's like 70 in there.

25 KATHRYN BROCK: Okay.

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1 BRENDA: If it's possible to look at the
2 source term and you know, I mean I could do it too, but
3 it may make more sense for you to do it, and figure out
4 if you need all 70? Or is there you know, you have a
5 middle, do most of the job?

6 KATHRYN BROCK: Okay, we'll look at that.

7 BRENDA: Very good.

8 KATHRYN BROCK: Okay, we don't have any
9 questions for you guys right now.

10 STEVE: No.

11 KATHRYN BROCK: I think we're good.

12 BRENDA: I think I had asked you guys or
13 I'd asked Dave, what time is this briefing we're trying
14 to get plots ready for in the morning?

15 KATHRYN BROCK: We, I was just asking our
16 management, and they didn't know, but they figure it
17 will be after the turn over. So probably not before
18 eight.

19 BRENDA: Okay.

20 MALE PARTICIPANT: I don't know if there's
21 a briefing, but we wanted ready with D'Agostino, our
22 administrator DIGESTION, believes that he'll get called
23 in by the White House maybe in the middle of the night,
24 so if can have that ready as soon as possible.

25 BRENDA: All right. Well we'll scramble.

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1 MALE PARTICIPANT: For him, so when he comes
2 in --

3 BRENDA: All right, so DIGESTION is getting
4 called in.

5 KATHRYN BROCK: Okay.

6 BRENDA: Okay. Very good, well thank you.

7 MALE PARTICIPANT: (inaudible). Can you
8 guys hold on?

9 KATHRYN BROCK: Yes.

10 MALE PARTICIPANT: Dave Bowman has a
11 question.

12 DAVE: We're getting some information from,
13 we have an office in Tokyo.

14 KATHRYN BROCK: Okay.

15 DAVE: Supporting, I don't know, I just
16 wanted to make sure you guys had heard this. They're
17 reporting that the cooling water is below the level of
18 the fuel at this reactor of concern.

19 KATHRYN BROCK: Okay.

20 MALE PARTICIPANT: Which reactor Dave?

21 KATHRYN BROCK: Which unit?

22 DAVE: Number 1, that's having the issues.

23 KATHRYN BROCK: Okay.

24 MALE PARTICIPANT: Okay.

25 DAVE: I just didn't know if you'd heard

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1 that or?

2 KATHRYN BROCK: No we haven't.

3 MALE PARTICIPANT: How far below?

4 DAVE: I think it was 50 centimeters,
5 something like that.

6 MALE PARTICIPANT: 50 centimeters?

7 DAVE: I've asked, if I can share this email
8 with you. If I can't, I'll give you the information
9 verbally.

10 KATHRYN BROCK: Okay.

11 DAVE: Hold on one second let me verify the
12 number.

13 KATHRYN BROCK: So this will be in the
14 scenario, you want the?

15 MALE PARTICIPANT: No. No, sometime in
16 Japan.

17 KATHRYN BROCK: Yes.

18 MALE PARTICIPANT: They have --

19 KATHRYN BROCK: We want to know, okay. And
20 so Brenda will know that?

21 MALE PARTICIPANT: Brenda can probably tell
22 us.

23 KATHRYN BROCK: Okay we're hanging on for
24 (inaudible) but Brenda are you still there?

25 BRENDA: Yes.

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1 KATHRYN BROCK: Okay, so we're, we have a
2 question for you, about what's the current MET in a six
3 to 12 hour forecast in Japan?

4 BRENDA: Oh, let me take a look. I mean
5 the winds, honestly have, are going to continue to be
6 off shore.

7 KATHRYN BROCK: Yes.

8 BRENDA: So we're not going to have a problem
9 with winds blowing on shore at all. Do you want me to
10 send you a, send you some winds again?

11 KATHRYN BROCK: Sure.

12 MALE PARTICIPANT: Yes, if you could.

13 KATHRYN BROCK: That would be great.

14 MALE PARTICIPANT: Just respond to that email
15 that we sent, the same address, email address that we
16 sent to NARAC.

17 BRENDA: Okay. What time, is it starting
18 at current time?

19 KATHRYN BROCK: Yes.

20 MALE PARTICIPANT: Yes, and then maybe six
21 hours out and 12 hours out forecast.

22 BRENDA: Okay.

23 KATHRYN BROCK: Good.

24 MALE PARTICIPANT: Thanks.

25 KATHRYN BROCK: Thank you.

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1 MALE PARTICIPANT: Okay, and now if Dave
2 needs that --

3 DAVE: Hello?

4 KATHRYN BROCK: Hello.

5 DAVE: All right, so yes, the report that
6 we had is that the coolant is 50 centimeters lower than
7 the top of the fuel rod.

8 KATHRYN BROCK: Okay. Well thank you.
9 Anything else?

10 MALE PARTICIPANT: That was as of right now,
11 Dave?

12 DAVE: A minute --

13 KATHRYN BROCK: Thank you, well, yes. You
14 just got the, it was an email?

15 DAVE: (inaudible), I have no idea. It went
16 to like a distribution in DOE, and then they sent it
17 on to NIT OPS, so I mean it's probably, I would guess
18 like an hour out of date, or an hour or two anyway.

19 MALE PARTICIPANT: Okay.

20 KATHRYNBROCK: Okay. Allright. Thankyou.
21 All right, so are we done? Brenda is going to do the
22 current MET. And we're going to work on our run.

23 MALE PARTICIPANT: Allright, the (inaudible)
24 which rack now?

25 KATHRYN BROCK: All right, NRC signing off.

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(CONFERENCE CALL INITIATED)

JEFF: NRC.

PETE: Hey, Jeff. This is Pete Snyder. I got Oliver on the line. I'm going to connect him now. Is that okay? Jeff?

JEFF: Yes.

PETE: Okay, I'm going to connect him. Hold on.

JEFF: Oliver, you on?

OLIVER: Yes, I am.

JEFF: All right. If you could just hold on for a minute. Let me collect the folks. I'll be back in about, say a minute.

OLIVER: Okay.

FEMALE PARTICIPANT: I'll call.

JEFF: Okay.

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Hi, this is Kathryn Brock.
How can I help you?

OLIVER: Hello.

JEFF: Hey, Oliver? Can you hear us okay?

OLIVER: Yes. So I'm here with Amanita
(phonetic) Gamoorhorn (phonetic). More in the reactor
(inaudible).

FEMALE PARTICIPANT: Hi, there.

JEFF: All right, we got a few folks clustered
up here. We're from the Protective Measures end. Do
we need to have somebody from a reactor side? To answer
any questions? Okay? Are you there, can you hear us?

KATHRYN BROCK: I think he said yes.

OLIVER: Yes, yes, yes.

KATHRYN BROCK: Okay. We're getting
somebody.

OLIVER: Okay, so I think you got, quite
the same information than us, that there's, it seems
that the Reactor 1, has a core de-watering for some parts
and maybe for some time. We also have some information
coming from the operator saying that he's, he's trying
hard to put more water in it. But for us that's it.

JEFF: We don't have that much more than

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1 you have.

2 OLIVER: Okay.

3 JEFF:

(b)(5)

4 (b)(5)

5 OLIVER: So what?

6 KATHRYN BROCK: So we have nothing concrete.

7 AMANITA: Something is very (inaudible) they
8 would send for (inaudible), the task we have to do, is
9 to provide information to our ministry. In fact we have
10 no, at all, any idea of the containment performance of
11 such a nuclear plant, so.

12 KATHRYN BROCK: We don't have that
13 information either.

14 OLIVER: Okay.

15 AMANITA: So, you don't have --

16 JEFF:

(b)(5)

17 (b)(5)

18 OLIVER: Yes, yes.

(b)(5)

19 (b)(5)

20
21 AMANITA:

(b)(5)

22 (b)(5)

23
24
25
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1 KATHRYN BROCK: Yes, I think we're in the
2 same boat. All we can do is kind of, the same, can speculate.
3 But we don't have any more information.

4 OLIVER: Okay, and so, from speculation,
5 what is your, what is your scenario? You have changes
6 maybe?

7 KATHRYN BROCK: No, we don't have any.

8 AMANITA: Do you have one?

9 KATHRYN BROCK: No.

10 OLIVER: Okay. So, I mean --

11 JEFF: We really don't want to give out
12 speculation. Until we have some tangible data to report,
13 we really don't want to --

14 OLIVER: Okay. Okay.

15 KATHRYN BROCK: But we've been watching CNN.

16 OLIVER: Right. I mean, I mean --

17 KATHRYN BROCK: They seem to know.

18 OLIVER: Well you have no contact at all
19 with a, some Japanese folk over there?

20 KATHRYN BROCK: No.

21 JEFF: No.

22 OLIVER: Have to have more reliable
23 information?

24 KATHRYN BROCK: None.

25 JEFF: None.

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1 KATHRYN BROCK: I'm sorry.

2 JEFF: (b)(5)

3 (b)(5)

4
5 OLIVER: Okay.

6 AMENYETO: So we would ask some question,
7 for example, some containment venting she sent me. the
8 CISCO (inaudible)?

9 JEFF: Could you repeat that please?

10 AMENYETO: The CISCO (inaudible) with
11 accident conditions, since we got that we have no idea
12 but (inaudible)important, from your side?

13 OLIVER: Well I mean, we can't say nothing
14 about the containment, and it's (inaudible) now. So
15 I think that, we can understand it. But about the venting
16 system, in that chain of reactors, and the filters?
17 What is your feeling about that?

18 KATHRYN BROCK: We don't have any concrete
19 thoughts on that at all.

20 OLIVER: Okay.

21 KATHRYN BROCK: I'm sorry that we're not
22 very helpful, but we're in the same position --

23 OLIVER: Oh, yes. I know, we were, I mean,
24 they're if, we can understand that. It's very difficult
25 to work with no information, no reliable information

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1 to start --

2 KATHRYN BROCK: Right.

3 OLIVER: Thinking about, about (inaudible)
4 or whatever, so. Okay, I mean if you have this position,
5 it's, it is understandable, and it's, we have the same
6 now here so. That's fine for us.

7 KATHRYN BROCK: That's great.

8 OLIVER: But, maybe the thing is that, if
9 you have some reliable information, can we, can you call
10 us back to discuss it?

11 KATHRYN BROCK: Of course we can.

12 OLIVER: I mean the idea is maybe to agree
13 together that the first one of us got some reliable
14 information that we can work on --

15 KATHRYN BROCK: Sure we would be happy to
16 share it.

17 OLIVER: We can share it.

18 KATHRYN BROCK: We'll share any facts, we
19 have.

20 OLIVER: Okay.

21 KATHRYN BROCK: But, you know, I mean any,
22 not the speculation. We don't want to talk about.

23 (Crosstalk)

24 OLIVER: Maybe the next hour, or the next
25 days. It seems to be very difficult to have.

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1 KATHRYN BROCK: Can you say that again?

2 OLIVER: I'm just saying that my feeling
3 is that for the next hours, maybe next days, it will
4 be difficult to have any information coming from Japan.

5 KATHRYN BROCK: Yes, I think I agree with
6 you on that. I agree. But I think, do we have your
7 contact information?

8 OLIVER: I will provide Jeff, by email, I
9 a line, a land line to be able to call us back if necessary.

10 KATHRYN BROCK: Okay, that would be fine.
11 And then you know how to get a hold of us too.

12 OLIVER: Yes, yes. Right. So we've got the
13 number. Okay.

14 KATHRYN BROCK: Well good luck.

15 OLIVER: Say, I think that's it?

16 KATHRYN BROCK: I think that is too.

17 OLIVER: For the moment.

18 KATHRYN BROCK: Yes.

19 OLIVER: Okay.

20 KATHRYN BROCK: Good luck.

21 OLIVER: Okay, yes. Bye.

22 KATHRYN BROCK: Thank you for calling.
23
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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Kathryn Brock.

HEADQUARTERS OPERATIONS OFFICER: Hi, Kathy.

This is the Operations Center, Ops Officer. I just
sent an email to PMT02 that said to forward to you guys.

KATHRYN BROCK: Thank you.

HEADQUARTERS OPERATIONS OFFICER: Bye, bye.

KATHRYN BROCK: Bye.

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(CONFERENCE CALL INITIATED)

DAVE YOUNG: Hello, NIT OPs.

KATHRYN BROCK: Is this Dave Young?

DAVE YOUNG: Yes.

KATHRYN BROCK: Hey, Kathy Brock calling,
NRC.

DAVE YOUNG: Hey, Kathy how's it going?

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

DAVE YOUNG: Yes.

KATHRYN BROCK: My management really wants
to see that email. So is there --

DAVE YOUNG: Okay, well, I'll. Right now
--

KATHRYN BROCK: If I can --

DAVE YOUNG: Right now, Dave Bowman is on
the phone. So I'm going to wait for him to get off before
I ask him.

KATHRYN BROCK: Okay. So (inaudible) eight
of us.

DAVE YOUNG: It's global. An email this
short, I mean I can read it to you.

KATHRYN BROCK: I know the (inaudible).

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1 Okay.

2 MALE PARTICIPANT: Dave there was a report
3 earlier, much earlier in the night.

4 DAVE YOUNG: Yes.

5 MALE PARTICIPANT: That the tsunami had
6 flattened an engineering building near the reactor.

7 DAVE YOUNG: Okay.

8 MALE PARTICIPANT: Could that be a confusion
9 factor?

10 DAVE YOUNG: It could be, I mean right now
11 we're looking at the BBC website and they're investigating
12 the white smoke, so.

13 MALE PARTICIPANT: Okay.

14 DAVE YOUNG: And it says it's unclear whether
15 or not there was an explosion. So we're trying to clear
16 that up right now too.

17 KATHRYN BROCK: So a blast was heard, and
18 there's white smoke but, okay.

19 DAVE YOUNG: They don't necessarily tie it
20 to the containment.

21 MALE PARTICIPANT: Oh. What's, how many
22 about, there were four buildings?

23 DAVE YOUNG: So --

24 MALE PARTICIPANT: Or three?

25 KATHRYN BROCK: Yes, that's what he --

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1 DAVE YOUNG: When we know more, we'll try
2 to pass to you what we can.

3 MALE PARTICIPANT: Right. Thank you.

4 DAVE YOUNG: That's all we know right now.

5 KATHRYN BROCK: I appreciate it. Thank you.

6 DAVE YOUNG: Sorry guys.

7 KATHRYN BROCK: That's all right. Bye.

8 DAVE YOUNG: All righty, talk to you guys
9 later.

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1 (CONFERENCE CALL INITIATED)
2 (Crosstalk)
3 DAVE: Hello, NIT ops.
4 GREG CASTO: Dan, this is Greg Casto of NRC.
5 DAVE: This is Dave Young.
6 GREG CASTO: Oh, sorry Dave.
7 (Crosstalk)
8 DAVE: Who am I speaking with?
9 GREG CASTO: Has Dan already left?
10 DAVE: He has. He has.
11 GREG CASTO: So you are his turn over? This
12 is Greg Casto of the NRC Ops Center.
13 DAVE: How's it going?
14 (Crosstalk)
15 GREG CASTO: Dave Bowman speak up.
16 DAVE: This is Dave Young.
17 GREG CASTO: Oh, Dave Young, sorry. Okay,
18 so are you Dan's turn over?
19 DAVE: I am. I am, how can I help, sorry?
20 GREG CASTO: Okay, Okay.
21 KATHRYN BROCK: Sorry, we're just doing turn
22 over here. This is Kathy Brock and we wanted to connect
23 with you guys as we turned over and share where we're
24 going.
25 GREG CASTO: Right. Okay. I guess first

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1 and fore most what we were coordinating to do was to
2 put together some hypothetical source term on RASCAL
3 and provide to NARAC for them to do the IMAAC runs.

4 KATHRYN BROCK: Yes.

5 GREG CASTO: We have sent them the first
6 one, which was similar to earlier actual plant conditions
7 as well as we could tell. Where they were doing the
8 venting releases, or the vented releases.

9 KATHRYN BROCK: Yes.

10 GREG CASTO: And we had sent that one to
11 them. We're in the process of getting ready to send
12 several other scenarios that we had discussed earlier,
13 which was 10 percent gap, activity release that was
14 filtered, and through the plant stack. Then a 10 percent
15 gap release that is unfiltered, has ground level release.

16 And then a final, more core damage scenario type event,
17 and uncontrolled release.

18 DAVE: Okay.

19 GREG CASTO: So we're working on those now,
20 and very shortly, we'll send those to NARAC so they can
21 run their models. And we've talked to, Brenda --

22 MALE PARTICIPANT: Pobanz.

23 GREG CASTO: Pobanz, Pobanz, yes. We just
24 got off the phone with her. And so we'll coordinated
25 on that end.

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1 DAVE: Great.

2 GREG CASTO: We were going to turn the, or
3 get back on the bridge line.

4 DAVE: Okay, yes, we can set one up in a
5 few minutes if we want to get NARAC and you guys on there,
6 just kind of discuss this.

7 GREG CASTO: Okay. We had an earlier one,
8 I guess it's still, I don't know, I guess it's still
9 up?

10 DAVE: What number do you guys have for that
11 bridge line?

12 GREG CASTO: We have --

13 DAVE: (b)(6)

14 GREG CASTO: Yes. And then the PIN number
15 was (b)(6)

16 DAVE: So (b)(6)

17 GREG CASTO: (b)(6) that's correct.

18 MALE PARTICIPANT: 202 too.

19 DAVE: If we can, can we do one at the top
20 of the hour? We're on another conference call right
21 now, but we (inaudible) get on the bridge's fine at the
22 top of the hour.

23 GREG CASTO: Okay.

24 DAVE: Okay. I'll talk to NARAC and make
25 sure they know about the conference call we'll setup.

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1 GREG CASTO: Okay.

2 DAVE: 2400.

3 LOU: Hey, Dave this is Lou Brandon.

4 DAVE: Hey, Lou. How's it going?

5 LOU: Pretty good. Are you working with

6 Dave Bowman there?

7 DAVE: Yes, Dave Bowman is here actually.

8 Yes.

9 LOU: Okay, so we're supposed to coordinate

10 with him sometime before the morning brief to the White

11 House I guess.

12 DAVE: Yes, okay. Can I have him call you

13 back a little bit later?

14 LOU: Way later, yes.

15 DAVE: He'll probably be on the conference

16 call for this NARAC call if you want to talk to him then?

17 LOU: Okay, now you don't have a time for

18 that meeting tomorrow morning do you?

19 DAVE: Can you hold on guys? Lou wants to

20 talk to you. Brandon.

21 DAVE BOWMAN: Okay. Hi, this is Dave Bowman.

22 LOU: Hi, Dave. This is Lou Brandon at the

23 NRC. And we have Greg Casto and Kathryn Brock.

24 DAVE BOWMAN: How you doing?

25 GREG CASTO: Doing pretty good. You working

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1 all night Dave?

2 DAVE BOWMAN: Yes. To make up for working
3 all day, so.

4 GREG CASTO: Good idea.

5 LOU: All right, well we're in the process
6 of ginning up some RASCAL runs to characterize a number
7 of scenarios. We'll send them to NARAC and they're all
8 hypothetical. We'll try and put things in perspective.
9 And then I understand there's supposed to be some high
10 level briefing to put our heads together tomorrow morning.

11 DAVE BOWMAN: Yes, there's supposed to be
12 some Deputy's committee meeting. I don't know what time
13 it is, but that's what we tasked to prepare for our
14 administrator, so.

15 KATHRYN BROCK: (inaudible), if you find
16 out the time, let us know.

17 GREG CASTO: Right, we'll do the same.

18 LOU: All right, until then we'll work
19 forward and prepare some runs.

20 DAVE BOWMAN: Okay, and you, so I heard Dave's
21 setting up a conference call, so that we can get NARAC
22 on and discuss this?

23 GREG CASTO: Right, we had a bridge earlier
24 and we'll just re-establish it.

25 LOU: You said top of the hour, which is

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1 1 o'clock. We just talked to NARAC and I don't think
2 we need to talk to them again.

3 KATHRYN BROCK: Yes, we don't necessarily
4 need a conference call, we just wanted an open bridge.

5 DAVE BOWMAN: Oh, I see. Okay.

6 KATHRYN BROCK: Does that work for you guys?

7 DAVE BOWMAN: He's going to work, he's going
8 to let NARAC know, so.

9 KATHRYN BROCK: Great.

10 LOU: You know, hey Dave, you know if
11 anybody's talking to Japan, getting data?

12 MALE PARTICIPANT: From, what's going on?

13 DAVE BOWMAN: Well, so, I was over at the
14 USAID folks over at State Department, (b)(5)

15 (b)(5) They're really not
16 communicating.

17 LOU: Okay.

18 KATHRYN BROCK: You sent Timmons there, so
19 he would have been able to tell us.

20 LOU: Right, yes. Okay, that's helpful.

21 DAVE BOWMAN: So unfortunately the answer
22 is no.

23 LOU: Right. Okay.

24 KATHRYN BROCK: That's okay. At least, it
25 confirms our no.

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1 DAVE BOWMAN: Yes.

2 LOU: All right, anything else we should
3 know as we go forward here?

4 DAVE BOWMAN: No, not from our side. We're,
5 I mean it, we're on a conference call now. The other
6 call I just dropped off of with US Embassy. Apparently
7 there was, there was some workers at one of the plants
8 that was shut down, that think they might have gotten
9 contaminated.

10 GREG CASTO: Slightly or greatly?

11 DAVE BOWMAN: Slightly. Slightly, they're
12 talking about like there, when they were in an area that
13 was, I guess, contaminated. And like there was some,
14 when the earthquake hit, there was some dust that they
15 think they might have inhaled.

16 LOU: Oh.

17 DAVE BOWMAN: I have no idea why they weren't
18 wearing breathing protection. But anyway, they were
19 not in either Number 1 or Number 2, they were in reactor
20 Number 4, which was shutdown at the time.

21 LOU: Well, interesting. And, not all that
22 unusual for that kind of situation.

23 DAVE BOWMAN: Yes.

24 LOU: All right, we're going to go to work
25 here.

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1 KATHRYN BROCK: All right, and Dave, my name,
2 Dave, my name is Kathy Brock and I'm turning over with
3 Greg Casto, so Greg's going to go home.

4 GREG CASTO: Yes. I --

5 KATHRYN BROCK: He's probably here since

6 --

7 GREG CASTO: okay.

8 DAVE BOWMAN: Okay.

9 KATHRYN BROCK: Thanks a lot.

10 DAVE BOWMAN: All right.

11 GREG CASTO: Okay, thanks. Talk to you next
12 time, Dave. Thank you.

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(CONFERENCE CALL INITIATED)

BRENDA: NARAC, IMAAC. This is Brenda.

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

BRENDA: Hello.

KATHY BROCK: How you doing?

BRENDA: Pretty good.

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

BRENDA: Okay.

KATHY BROCK: And Steve went through and
he took out some of the nuclides for you. So hopefully
it's be --

BRENDA: It'll be a little quicker.

KATHY BROCK: Quicker. Do you have any other
details that you want to give, Steve?

STEVE: You'll see most of the information
in the print outs when you get them. You, understand
that in the lack of definitive information, we're doing
a wild amount of speculating.

KATHY BROCK: Yes.

STEVE: We think that we have a reasonable
case. We've discussed it with the Executive Team, and

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1 they gave us concurrent definitives, so we have buy-in
2 at this end.

3 BRENDA: Okay.

4 STEVE: We're assuming 10 percent core melt,
5 but we're assuming the containment is intact, which we
6 have heard nothing to indicate to indicate that it isn't.

7 BRENDA: Right.

8 STEVE: However, because there is no AC power,
9 there's also no fans to run ventilation systems. And
10 therefore, we're not assuming an elevated release, a
11 ground level release.

12 BRENDA: Okay.

13 STEVE: I think that's really all. Okay?
14 We put a list of the nuclides on it, on your print,
15 on the email.

16 BRENDA: Okay.

17 STEVE: Twelve, 13, 14, 15, 16, 17, 18, weeded
18 down to eighteen.

19 BRENDA: Oh, awesome.

20 STEVE: I dropped all the beta emitters.

21 KATHY BROCK: I mean really, there's the
22 Cevians (phonetic), Iodines, you know, there's the biggies
23 in there.

24 STEVE: That's exactly what we gave you,
25 Cesium, Barium-140, Lanthanum-140, Tellurium-132

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1 because it's the precursor to iodine, and Xenon.

2 BRENDA: Okay. Yes.

3 LOU: Hey Brenda, this is Lou. Did you work
4 all day today?

5 BRENDA: Yes.

6 LOU: How you holding up?

7 BRENDA: So far I'm doing okay. I have,
8 I have a lot of Dr. Pepper.

9 FEMALE PARTICIPANT: I have one too, but
10 it says on it, caffeine free.

11 BRENDA: Oh, that's terrible.

12 FEMALE PARTICIPANT: I agree.

13 BRENDA: That's travesty.

14 LOU: All right.

15 BRENDA: So when you send me this, the release
16 is starting when? Because we have no release yet, right?
17 So that --

18 STEVE: Right.

19 BRENDA: Starting current time?

20 STEVE: We got some information from Dave
21 Bowman that at 12, it was 1:25 our time. And he said
22 it was probably about an hour old, that the core had
23 been uncovered, down to 50 centimeters below the top.

24 BRENDA: Great.

25 STEVE: So we put in a core melt time of

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1 12:25 eastern time, which is then 1425 Japan time.

2 Everything is Japan in this file.

3 BRENDA: Okay.

4 STEVE: And so the release will start after
5 that.

6 BRENDA: Okay.

7 STEVE: It's a 13 hour duration.

8 BRENDA: Okay. I will look for it.

9 KATHY BROCK: I have a question for you
10 though.

11 BRENDA: Yes.

12 KATHY BROCK: Did you have any other updated
13 MET?

14 BRENDA: Not really.

15 KATHY BROCK: What direction is the wind
16 going?

17 BRENDA: It's from the west.

18 KATHY BROCK: From the west to the --

19 BRENDA: I mean the west to the southwest.

20 KATHY BROCK: From west, okay.

21 STEVE: Yes, we've got the MET data right
22 over here.

23 KATHY BROCK: Oh, okay.

24 STEVE: (inaudible) too specific.

25 KATHY BROCK: Oh, I guess we do, okay. If

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1 we've got it, that's cool.

2 KATHY BROCK: Excellent.

3 BRENDA: All right, I saw the email just
4 pop up.

5 KATHY BROCK: All right. Thanks.

6 BRENDA: You bet.

7 STEVE: Okay.

8 BRENDA: I'll get to work and let you know
9 when I'm there.

10 KATHY BROCK: All right.

11 BRENDA: All righty. Bye, bye.

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(CONFERENCE CALL INITIATED)

MICHELLE HART: Hello.

DAVE YOUNG: Hi, this is Dave Young from
DOE.

MICHELLE HART: Hello, this is Michelle Hart,
NRC Headquarters, Operation Center.

DAVE YOUNG: Is this the PMT?

MICHELLE HART: This is the PMT.

LOUBRANDON: Hi, Dave. This is Lou Brandon,
I'm back.

DAVE YOUNG: Hey, Lou. Hello, how's it
going?

LOU BRANDON: Pretty good. How about for
you?

DAVE YOUNG: We're doing good here too.
I have a question. (b)(5)

(b)(5)

LOU BRANDON: Okay.

DAVE YOUNG: And he was curious about the
other Daiichi reactors.

LOU BRANDON: Okay.

DAVE YOUNG: And so, what, so I told him
I'd get back to him. So he had a question about Reactors
2 through 6, and whether or not they'll follow a similar

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1 malfunction? Now, I understand that 4 through 6 were
2 shutdown for maintenance, so there, there shouldn't be
3 any issues of them?

4 LOU BRANDON: Okay. Reactors 2 through 6,
5 except for 4, has a question.

6 DAVE YOUNG: (inaudible) what was that?

7 LOU BRANDON: What you just said to me was
8 there's a question about the status of Reactors 2 through
9 6.

10 DAVE YOUNG: Yes.

11 LOU BRANDON: Except for 4 because it was
12 shutdown?

13 DAVE YOUNG: I understand that 4 through
14 6, were shut down?

15 LOU BRANDON: Oh, 4 through 6? Okay.

16 DAVE YOUNG: So it makes sense that there
17 should be no issues with those three reactors?

18 LOU BRANDON: All right, so just 2 and 3,
19 I'm just getting here and getting oriented right now.
20 So it sounds like 2 and 3 are the ones at issue?

21 DAVE YOUNG: Yes, 2 and 3, right?

22 LOU BRANDON: All right. We'll have to dig
23 in and talk to our counterparts here and see what the
24 status is.

25 DAVE YOUNG: Okay. Can you double check

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1 whether or not they are all, the similar design in structure?

2 I understand like Number 1 is the oldest. And the smallest
3 reactor out of the six.

4 LOU BRANDON: Okay.

5 DAVE YOUNG: And then that the Number 6,
6 the newest, and 2 to 5 are the same?

7 LOU BRANDON: That would make sense and as
8 they get newer, and newer, the design would evolve to
9 be more safe probably.

10 DAVE YOUNG: Probably.

11 LOU BRANDON: But the Reactor Safety Team,
12 is the expert in that area.

13 DAVE YOUNG: Okay.

14 LOU BRANDON: We're more Protective Measures
15 here on this side, so we can ask questions and follow
16 up on those questions.

17 DAVE YOUNG: Okay, yes. And then you can
18 give me a call back when you know a little bit more.

19 LOU BRANDON: Okay.

20 DAVE YOUNG: Okay. Thank you, Lou.
21 Appreciate it.

22 LOU BRANDON: Very good. We'll talk to you
23 later, Dave.

24 DAVE: All right. Talk to you soon. Bye.

25 MICHELLE HART: Bye.

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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center, Greg
Casto.

DAVE YOUNG: Hi, this is Dave Young from
DOE.

GREG CASTO: Hey, Dave. How you doing?

DAVE YOUNG: I'm doing good, how are you?

GREG CASTO: Good. Good. Michelle Hart is
here too.

DAVE YOUNG: I have a quick question on the
first term we've been using. And we passed to NARAC
to do their modeling?

LOU BRANDON: Which case, Dave?

DAVE YOUNG: I think it's kind of a general
question. So we've been using Oyster Creek as a --

GREG CASTO: Surrogate?

DAVE YOUNG: We've been using Oyster Creek
as the generic, well US design for this, you know, for
the source term.

LOU BRANDON: Yes, that's what we've been
passing too.

DAVE YOUNG: So I'm, and you guys know that
Oyster Creek's about 25 percent larger than --

LOU BRANDON: That's right.

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1 DAVE YOUNG: Has everyone scaled down the
2 source term --

3 LOU BRANDON: No.

4 DAVE YOUNG: Case on that?

5 LOU BRANDON: Oh, no. You have to mentally
6 do that. The impact will be about the same on the ground.

7 DAVE YOUNG: Okay.

8 LOU BRANDON: A little blast, slightly
9 (inaudible).

10 DAVE YOUNG: Impact about the same, okay.

11 LOU BRANDON: You know, we, we did a couple
12 runs last night. One was 10 percent core melt, one was
13 40 percent core melt and the difference in the impact
14 when you go from 10 to 40, was only about twice as far
15 out.

16 DAVE YOUNG: Yes. Yes.

17 LOUBRANDON: So if you reduce it by 25 percent,
18 you're still going to be in the same range.

19 DAVE YOUNG: Okay. Okay then, that makes
20 sense. Okay. Another thing is I called a little bit
21 earlier to ask. I talked to Lou.

22 LOU BRANDON: I'm Lou, I'm talking with you.

23 DAVE YOUNG: Huh?

24 LOU BRANDON: This is Lou who's speaking
25 with you.

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1 DAVE YOUNG: Okay. Sorry, I didn't
2 recognize your voice. Did you ever find out more about
3 the reactors?

4 LOU BRANDON: We were, I thought that, these
5 two who are with me, Greg and Michelle just called you
6 back to report to you, so we're right ready to do that.

7 MICHELLE HART: No. He called in.

8 GREG CASTO: He called.

9 LOU BRANDON: Yes, we're working on that.

10 GREG CASTO: No, now we're ready to talk
11 to him right now.

12 LOU BRANDON: Oh, we're ready to talk about
13 it, okay.

14 DAVE YOUNG: Okay, so did you pass any, I
15 didn't talk to any of you guys. I don't know if you
16 talked to someone else there?

17 MICHELLE HART: Oh, you did talk to us.
18 You talked to Michelle and Lou.

19 LOU BRANDON: Yes.

20 GREG CASTO: Hello.

21 MICHELLE HART: We just have one additional
22 person.

23 LOU BRANDON: So, we've been talking to the
24 Reactor Safety Team gathering information. And what
25 we can say is limited but we'll tell you everything we

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1 can say here.

2 DAVE YOUNG: Okay.

3 LOU BRANDON: You want to tell him, Michelle?

4 MICHELLE HART: Sure. So you were
5 particularly interested in the rest of the units?

6 DAVE YOUNG: Yes.

7 MICHELLE HART: Well Units 4 through 6, at
8 Daiichi, were already shutdown before the event occurred.

9 DAVE YOUNG: Yes.

10 MICHELLE HART: And they are still in stable
11 condition. There is no indication of any big issues
12 there.

13 GREG CASTO: Possible (inaudible).

14 MICHELLE HART: The TEPCO release has that
15 all three were shut down before.

16 GREG CASTO: Oh, really (inaudible). Okay.

17 MICHELLE HART: Yes. I'm referring to a
18 release from TEPCO that was given to us at, well it was
19 released at 4 p.m. eastern standard time.

20 DAVE YOUNG: Okay.

21 LOU BRANDON: Are you familiar with that
22 TEPCO web site, Dave?

23 DAVE YOUNG: Yes, we are. We are.

24 LOU BRANDON: Okay.

25 MICHELLE HART: Unit 2, at that time, the

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1 reactor water level was low, but steady. And they were
2 preparing to vent the containment if necessary to keep
3 the pressure down in containment.

4 DAVE YOUNG: Yes.

5 MICHELLE HART: They did not have the one
6 injection system to the core, the RCIC, the Reactor Core
7 Isolation Cooling system.

8 DAVE YOUNG: Yes.

9 MICHELLE HART: Was not available for Unit
10 2. Unit 3, there was there was no indication of RCS
11 leakage at that time. And they were also preparing to
12 vent the containment if necessary for that Unit. One
13 of the reasons for that venting, is that there was no
14 connection to the sea, to pull in water.

15 DAVE YOUNG: Okay.

16 LOUBRANDON: So that's probably information
17 you already know.

18 DAVE YOUNG: No, this is good. This is good.

19 Like I say, I was, I need to prepare the response to
20 this (b)(6) at the White House, so.

21 MICHELLE HART: Right. Now did you also
22 need information on the Units themselves? I thought
23 you asked what kind of units they were? The rest of
24 the units?

25 DAVE YOUNG: Well that'd be very helpful.

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1 MICHELLE HART: I have this sheet and it
2 looks like it's from some kind of document. I don't
3 know what it's from, but it does say that Units 2 through
4 5, are BWR Mark 1's. They're newer than Unit 1, obviously.
5 And they're slightly higher in output.
6 They're 784 Megawatts, Thermal, or pardon me, excuse
7 me, Electric.

8 DAVE YOUNG: Electric.

9 MICHELLE HART: Yes. Unit 6 is a BWR Mark
10 2, and it has an output of 1100 Megawatts, Electric.

11 DAVE YOUNG: Okay.

12 MICHELLE HART: So it's a different type
13 of containment.

14 DAVE YOUNG: So is there (inaudible) for
15 Unit 6 (inaudible).

16 MICHELLE HART: Unit 6.

17 DAVE YOUNG: How much?

18 MICHELLE HART: 1100 Megawatts, Electric.

19 DAVE YOUNG: And it's electric, Okay. What
20 Model is Unit 1?

21 MICHELLE HART: Unit 1 is a BWR Mark 1, and
22 it's 460 Megawatts, Electric.

23 DAVE YOUNG: Okay, so there's, so 2 to 5
24 and 1 are basically the same, but just different outputs?

25 MICHELLE HART: Different outputs, that's

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1 correct.

2 LOU BRANDON: And three has a RCIC?

3 GREG CASTO: Unit 1 and 2 are different in
4 design.

5 LOU BRANDON: Okay, say it.

6 GREG CASTO: Unit 1 and 2 are different in
7 design.

8 DAVE YOUNG: Right, even though they're Mark
9 1's?

10 GREG CASTO: They're both Mark 1's, right.

11 LOU BRANDON: The (inaudible) 1, has to do
12 with the containment design.

13 DAVE YOUNG: Got it, okay.

14 GREG CASTO: Okay.

15 DAVE YOUNG: Okay.

16 MICHELLE HART: So is that all the
17 information that you needed at this time?

18 DAVE YOUNG: I think so. I think so. I
19 appreciate your help.

20 GREG CASTO: Okay.

21 DAVE YOUNG: So, right. Thank you very much
22 guys. I appreciate it.

23 MICHELLE HART: You're welcome.

24 GREG CASTO: All right, Dave. Talk to you
25 next time.

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1 DAVE YOUNG: Same to you later. Bye.
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(CONFERENCE CALL INITIATED)

MIKE: NARAC, this is Mike.

GREG CASTO: Hey, Mike. This is Greg Casto at NRC. How are you doing?

MIKE: Just fine, how are you Greg?

GREG CASTO: Pretty good. I wonder if we could get current MET conditions from you guys?

MIKE: Probably, hold on just a minute.

GREG CASTO: All right.

(Crosstalk)

MIKE: Sure we can do that, and we'll send it the normal way we usually do.

GREG CASTO: Okay, what the email? You have our email address?

MIKE: Yes, Brenda (inaudible) --

GREG CASTO: PMT02? PMT zero 2, dot HOC?

MIKE: Yes, she has it.

GREG CASTO: Okay, all right then. Let's see. You've been sending us some projections, so the current 10 projections would be greatly appreciated.

MIKE: They also want the current projections. Probably have the most recent, but that -- we haven't done any new projections since what you've received most recently.

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1 GREG CASTO: Okay. Do you have any, I guess
2 just, what we're doing is we're looking at, we're
3 discussing some confirmation of recommendations given
4 by the utility, and to provide those to American citizens
5 in Japan.

6 MIKE: Hold on.

7 GREG CASTO: We just want some MET, I guess
8 anything you can give us that'll be a forecast would
9 help.

10 MIKE: Okay. You want confirmation of the
11 information that being given out by TEPCO? Or whatever,
12 the?

13 GREG CASTO: No. We have the current
14 Protective Actions. What we're looking at, is we got
15 a call from the State Department and they're looking
16 at a statement from the US Ambassador in Japan to American
17 citizens. And we're just confirming really what is in
18 place right now.

19 MIKE: Okay. We haven't seen that statement,
20 but if you'll, I guess we don't need to, you're going
21 to do the confirmation you say, right?

22 GREG CASTO: Yes, yes. So right now, really
23 all, I think all we need is to look at what MET conditions
24 are now. And what we think they might be in the near
25 future.

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1 (Crosstalk)

2 MIKE: So can we do that Brenda?

3 BREND A: Yes, yes. This is Brenda. Just
4 sending you the same thing we've been doing the past
5 couple days.

6 FEMALE PARTICIPANT: Okay.

7 GREG CASTO: Yes.

8 BREND A: Okay.

9 GREG CASTO: And does that have a current
10 on it, because that was the --

11 BREND A: I'm going to put the, I'm going
12 to start from the current time.

13 GREG CASTO: Okay. Oh, perfect.

14 BREND A: Okay.

15 GREG CASTO: Can you tell me what that is
16 over the phone right now, just, wind direction --

17 BREND A: Oh what's the MET current time?

18 GREG CASTO: Yes.

19 BREND A: Okay, no. I don't know. Hey,
20 guys I can probably, I can tell you.

21 GREG CASTO: Okay.

22 BREND A: Oh, I mean I give you in general
23 here, because I did just make a little movie of it.
24 Oh, let me see here. Current time is 03, it is looking
25 like you have winds from the southwest.

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1 GREG CASTO: Okay.

2 BRENDA: Speed, I would be guessing at.
3 I'm going to send you a picture, probably (inaudible)
4 for a second.

5 GREG CASTO: Okay, got it. Okay.

6 BRENDA: Okay?

7 GREG CASTO: Thank you very much.

8 BRENDA: You, (inaudible).

9 GREG CASTO: Appreciate it.

10 BRENDA: You're welcome. Bye, bye.
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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Ops Center, Greg Casto.

RANDY SULLIVAN: Hey Greg, Randy Sullivan.

GREG CASTO: Hey, Randy.

RANDY SULLIVAN: Hey, I just got back into town and I had a voice mail that you may need people to staff shifts?

GREG CASTO: Well, let me look. Okay, because there was a time when yes, we did.

RANDY SULLIVAN: Okay. But I couldn't come in now. I, it took 17 hours to get home, but I could be there in the morning if you need me.

GREG CASTO: Okay, I, you know, right now I would say we are good through probably Monday, 15th is Monday, no 15th is Tuesday. So we're probably good until about Tuesday morning.

RANDY SULLIVAN: Okay.

GREG CASTO: Okay.

RANDY SULLIVAN: Well I'm back in town if I'm needed, so.

GREG CASTO: Okay.

RANDY SULLIVAN: I mean I'll be in the office Monday, so.

GREG CASTO: Oh, Okay. All right. Come on

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1 over and say Hi.

2 RANDY SULLIVAN: Okay.

3 GREG CASTO: And we'll be over here, I
4 imagine.

5 RANDY SULLIVAN: Do you understand? Do you
6 have a minute?

7 GREG CASTO: I do. You're on speaker phone.

8 RANDY SULLIVAN: Do you know status of the
9 reactor?

10 GREG CASTO: You know, we don't completely.
11 It's been real interesting. Information has been --

12 (Crosstalk)

13 GREG CASTO: You're on a headset phone,
14 you're not speaker phone, right?

15 RANDY SULLIVAN: I am not on a speaker phone.

16 GREG CASTO: Okay. (b)(5)

17 (b)(5)

18 RANDY SULLIVAN: Okay.

19 GREG CASTO: The information that you're,
20 that you get over, (b)(5)

21 (b)(5)

22 (b)(5)

That's about what we've got.

23 RANDY SULLIVAN: I see.

24 GREG CASTO: (b)(5)

25 (b)(5)

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1 (b)(5)

2 (b)(5)

And so we've been just trying to,
3 trying to estimate what's going on.

4 RANDY SULLIVAN: They don't have emergency
5 diesel generators. I guess the turbine building exploded.

6 (b)(5)

7 GREG CASTO: Well actually, the reactor
8 building.

9 RANDY SULLIVAN: The reactor building
10 actually exploded?

11 GREG CASTO: Yes. Yes. (inaudible) Unit
12 1. Units 1, 2, and 3 are all without power and basically
13 they're in station blackout situations.

14 RANDY SULLIVAN: Wow.

15 GREG CASTO: And that's at, that's at Daiichi.
16 At Daini, they also have problems.

17 RANDY SULLIVAN: Sure right, but I mean,
18 so, then I heard that ground is only eight times normal.
19 That can't be true, right?

20 GREG CASTO: It's, that's real minor. We,
21 you know, eight times nothing.

22 RANDY SULLIVAN: Yes, right. But I mean
23 if there was a hydrogen explosion in the containment
24 building, that'd be --

25 GREG CASTO: Right. Well it wasn't

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1 containment, containment we believe is still intact.
2 That was a, see, that was in the reactor building and
3 it was a hydrogen system. I thought, I thought originally
4 it was maybe turbine too. That might have made sense.

5 But I guess they had some hydrogen, you know hydrogen
6 lines in the, reactor building that ignited, and --

7 RANDY SULLIVAN: That's that oxygen
8 scavenging stuff that they use at (inaudible).

9 GREG CASTO: I guess.

10 RANDY SULLIVAN: Okay, so that was the
11 reactor building, huh? That's good there's no secondary
12 containment.

13 GREG CASTO: Right. So they're using, in
14 Unit 1 they're using, we believe they're using salt water
15 --

16 (Crosstalk)

17 GREG CASTO: To provide ECPS. They're doing
18 bleed-and-feed. They're mixing some boron with the salt
19 water.

20 RANDY SULLIVAN: I see.

21 GREG CASTO: And so, they're some
22 complications. And they're having problems with several
23 of their units.

24 RANDY SULLIVAN: But there's no big
25 radiation leak?

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1 GREG CASTO: Well, not that we can tell,
2 yet. They're doing some venting, they started some
3 controlled venting last night.

4 RANDY SULLIVAN: Okay.

5 GREG CASTO: Yes. But as, as far as we know,
6 and there's a lot of conflicting report. It's really
7 difficult to completely understand what's going on.

8 RANDY SULLIVAN: (inaudible) Yes, wow.
9 Must be frustrating.

10 GREG CASTO: Yes.

11 RANDY SULLIVAN: Okay, well. Let somebody
12 in charge know you've got a backup if you need them.
13 I'd be ready tomorrow morning.

14 GREG CASTO: Okay. Thanks, Randy.

15 RANDY SULLIVAN: Okay. Thank you.

16 GREG CASTO: All right.

17 RANDY SULLIVAN: Bye, bye.

18 GREG CASTO: Have a good one.
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(CONFERENCE CALL INITIATED)

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KATHRYN BROCK: NRC, Kathryn Brock.

JOHN PARILLO: Yes. This is John Parillo.

I was going to be transferred to (inaudible).

KATHRYN BROCK: I'm sorry. What was your last name?

JOHN PARILLO: Parillo, P-A-R-I-L-L-O.

KATHRYN BROCK: All right. I've got Tony Bowers here. I think he's calling you to see if you can come help us out. So you're a dose assessor, right?

JOHN PARILLO: Right, yes. Actually I'm in (b)(6) but --

KATHRYN BROCK: Are you coming, when are you coming home? We're looking for, what's today, today's the 12th. We're looking for the 14th.

JOHN PARILLO: The 14th. Help me out. What day is that now?

KATHRYN BROCK: I don't know. We've been in and out of here. So that's tomorrow.

MALE PARTICIPANT: When are you coming back?

JOHN PARILLO: Well I could do that. I was actually planning to (b)(6) But I could change my plans.

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1 KATHRYN BROCK: Well we're looking to fill
2 a slot tomorrow from 3:00 p.m. to 11:00 p.m.

3 JOHN PARILLO: Okay, yes. I can do that.

4 KATHRYN BROCK: All right. It won't
5 interfere with what you've got going on too much or?

6 JOHN PARILLO: Well it will change my plans.

7 (b)(6) I was supposed to take
8 a (indiscernible, possibly tiny) leave tomorrow and (b)(6)

9 (b)(6) But I can change the plans if --

10 KATHRYN BROCK: Maybe we could --

11 JOHN PARILLO: -- if you really need help
12 I can change my plans.

13 KATHRYN BROCK: You know what. Tony Bowers
14 will call you back soon because we hate to, I mean, gosh
15 (b)(6) We'll see if we can juggle some people around
16 to get you in here after, you know, a couple days later,
17 a day later.

18 JOHN PARILLO: All right. In the meantime
19 I, you know, okay, I'll keep you available. Let me know.
20 I mean I'm definitely willing to help it's just tough
21 timing. Okay.

22 MALE PARTICIPANT: Hey, John.

23 JOHN PARILLO: Yes.

24 MALE PARTICIPANT: I just to confirm your
25 number. (b)(6)

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1 JOHN PARILLO: Correct.

2 MALE PARTICIPANT: Okay. I'll probably
3 give you a call back within the next five minutes.

4 JOHN PARILLO: All right.

5 MALE PARTICIPANT: Thank you.

6 JOHN PARILLO: Thank you.

7 KATHRYN BROCK: Thanks a lot.

8 JOHN PARILLO: Okay, bye bye.

9 MALE PARTICIPANT: Good morning. This is
10 (indiscernible) speaking. How may I help you?

11 KATHRYN BROCK: Hi there. This is Kathryn
12 Brock from NRC. I was trying to get a hold of somebody
13 at DOE so that I could get some (indiscernible, possibly
14 MET) data from NARAC.

15 MALE PARTICIPANT: Okay, stand by for a
16 second. Your name again please, ma'am.

17 KATHRYN BROCK: Kathryn Brock.

18 MALE PARTICIPANT: Okay. Stand by for a
19 second please, Kathryn.

20 KATHRYN BROCK: Thanks a lot.

21 MALE PARTICIPANT: Kathryn, you are
22 connected to Mark.

23 KATHRYN BROCK: Okay. Hi, Mark.

24 MARK: Hi, good afternoon, Kathryn.

25 KATHRYN BROCK: How are you doing?

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1 MARK: Good. I guess it's still morning
2 isn't it?

3 KATHRYN BROCK: Yes, I don't know. So I'm
4 calling because I was hoping to get some current MET
5 data. Is that something you can help me with or can
6 I call NARAC directly or how do you do this?

7 MARK: So what kind of data are you looking
8 for?

9 KATHRYN BROCK: So I guess wind speed, wind
10 direction.

11 MARK: Wind speed and direction at like the
12 release point or kind of in the whole area at different
13 elevations and --

14 KATHRYN BROCK: What have we been using?
15 So I guess.

16 MALE PARTICIPANT: Let me find out what we've
17 got going.

18 KATHRYN BROCK: I'm sorry. That question
19 was harder than I thought. I guess you guys have been
20 sending us. But he asked at what elevation.

21 MALE PARTICIPANT: No, the last one we got
22 was from Brenda Pobanz (phonetic) and it basically had
23 just --

24 KATHRYN BROCK: Wind speed, direction
25 (indiscernible) class.

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1 MALE PARTICIPANT: Yes, it has the time,
2 and UTC, wind speed, (indiscernible) class and direction.

3 MARK: Okay. Let me see what I can pull
4 together. And is there a number I can reach you back
5 at?

6 KATHRYN BROCK: Yes, 301-816-5419.

7 MARK: 301-816-5419.

8 KATHRYN BROCK: Yes.

9 MARK: Great. Let me give you a call back
10 in a couple of minutes.

11 KATHRYN BROCK: Thanks. Bye.
12
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19
20
21
22

23 0%}O^O615365094 (Contains no words to transcribe)

24 (CONFERENCE CALL INITIATED)

25 0%IC5%_15365094

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1 BREND A POBANZ: NARAC (indiscernible,
2 possibly IMAC), this is Brenda.

3 LOU BRANDON: Hi, Brenda. This is Lou
4 Brandon at NRC.

5 BREND A POBANZ: Hey, Lou.

6 LOU BRANDON: Did you get a chance to go
7 home yet since last night?

8 BREND A POBANZ: I did go home. I was home
9 for like maybe five hours.

10 LOU BRANDON: That's not much. Are you
11 getting enough sleep?

12 BREND A POBANZ: Yes, I am only here for
13 another 45 minutes or an hour or so then I actually get
14 to go home and sleep like a normal person.

15 LOU BRANDON: Is someone going to be working
16 there (indiscernible, possibly on the site) tonight?

17 BREND A POBANZ: Yes. Ron Baskett and a
18 couple other staffers will be here tonight.

19 LOU BRANDON: Okay. We have a little bit
20 of an unusual request.

21 BREND A POBANZ: Okay.

22 LOU BRANDON: We just sent you another source
23 term.

24 BREND A POBANZ: Okay.

25 LOU BRANDON: And the request to us was see

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(b)(5)

BRENDA POBANZ:

(b)(5)

LOU BRANDON:

(b)(5)

(b)(5)

BRENDA POBANZ: Right.

LOU BRANDON:

(b)(5)

(b)(5)

BRENDA POBANZ: Right.

LOU BRANDON: So the question to you is, we're interested in those ingestion pathway (indiscernible, possibly plots) that you, when you do the consideration for cesium and iodine in terms of melt pathway or (indiscernible, possibly produce).

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1 BREND A POBANZ: Okay.

(b)(5)

2 (b)(5)

3
4 LOU BRANDON: Yes. So I just, you know,
5 I told them off the fly I said you're not going to get
6 anything

7 (b)(5)

8
9 BREND A POBANZ: And I need to tell DOE that
10 that's what's getting requested. And who is asking?

11 LOU BRANDON: This is NRC.

12 BREND A POBANZ: Well I know you're the NRC.
13 Who is asking you? USDA or?

14 LOU BRANDON: No, no this is our, the NRC
15 executive management.

16 BREND A POBANZ: Okay.

17 LOU BRANDON: Trying to, they're just trying
18 to look at a worst case scenario because these units
19 are being challenged a lit bit right now.

20 BREND A POBANZ: Yes, okay.

(b)(5)

21 (b)(5)

22
23 (b)(5) So we would need to do that. It will take a little
24 bit of time.

25 LOU BRANDON: In the e-mail I suggested since

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1 it's this low level deposition it might be good to run
2 all of the radionuclides. But we left that open for
3 you to decide those DRL plots at the end are based mostly
4 on cesium and iodine. So use good judgment and if you
5 don't want to run all of those radionuclides I think
6 you can make that decision.

7 BREND A POBANZ: Yes, it's more than likely
8 that we'll do that since the limiting ones are usually
9 cesium and iodine. So and it will --

10 LOU BRANDON: It will make life a little
11 bit easier.

12 BREND A POBANZ: -- go a little faster, yes.

13 LOU BRANDON: And then we ran it for 20 hours.

14 (b)(5)

15
16 BREND A POBANZ: Yes,

(b)(5)

17 (b)(5)

18 LOU BRANDON:

(b)(5)

19 BREND A POBANZ:

(b)(5)

20 LOU BRANDON: Okay.

21 BREND A POBANZ: No,

(b)(5)

22 (b)(5)

23
24 LOU BRANDON: And it might take you a few
25 hours to do the run?

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1 BREND A POBANZ: Yes.

2 LOU BRANDON: Will that tie up your computer,
3 your only resource for all --

4 BREND A POBANZ: No, we have multiple domains.
5 So it will run on one machine and we'll be working on
6 other things on the other ones.

7 LOU BRANDON: Okay, that's what we got.

8 BREND A POBANZ: Okay, is there, you know,
9 a drop dead date you guys are looking to build this
10 presentation by or something?

11 LOU BRANDON: You know I think they'll be
12 satisfied if we just tell them NARAC's working on it
13 right now and it may be a few hours.

14 BREND A POBANZ: Okay. We will get to work.

15 LOU BRANDON: All right. You sound pretty
16 chipper there for --

17 BREND A POBANZ: Well I said I get to leave
18 soon. It's going to somebody else's problem not mine.

19 LOU BRANDON: You are wonderful to work with
20 Brenda. We appreciate the great service on your end.

21 BREND A POBANZ: Well thank you very much.
22 And thank you guys for working with us on all of this
23 too. It's, we certainly wouldn't want to be the ones
24 trying to come up with source terms for all this crazy
25 stuff, let me tell you.

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1 LOU BRANDON: It's a good alliance I think
2 we've got going here so --

3 BRENDA POBANZ: Yes. All right. Thanks a
4 lot guys.

5 LOU BRANDON: Look forward, okay. Talk to
6 you later, Brenda.

7 BRENDA POBANZ: All right. Bye bye.
8
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16

17 (CONFERENCE CALL INITIATED)

18 0%J87-L15365094

19 LOU BRANDON: Hello. This is NRC, Lou.

20 BILL BEAL: Hey, Lou. It's Bill Beal calling
21 from (indiscernible, possibly DOE NIT Ops).

22 LOU BRANDON: Bill.

23 BILL BEAL: How are you?

24 LOU BRANDON: You're still up at this hour.
25 What's going on?

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1 BILL BEAL: I'm just getting started.

2 LOU BRANDON: Really. Did you start --

3 BILL BEAL: Yes, we came on, we're the
4 graveyard shift so. So I just got off the phone with
5 Brenda and she passed on the request that you guys had
6 about the worst case times two.

7 LOU BRANDON: Okay.

8 BILL BEAL: So Bowman, Dave Bowman just asked
9 me to make sure that I talk to you to get the request
10 directly here at the NIT. So since we're trying to make
11 sure that we're tracking all the different requests that
12 are going to NARAC, whenever you've got a request going
13 in like that if you can give us a call to request it
14 through here so we can appropriately do stuff.

15 LOU BRANDON: Okay.

16 BILL BEAL: You know, just keep an eye on
17 their taskings.

18 LOU BRANDON: Okay. I understand.

19 BILL BEAL: Do you have --

20 LOU BRANDON: We were just in the habit of
21 dialing them up and talking to them (indiscernible,
22 possibly in these situations).

23 BILL BEAL: Yes, yes, yes. I think it's
24 partially specific to this event just because there are
25 so many requests happening right now.

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1 LOU BRANDON: I didn't realize you were
2 actually getting other requests from other agencies.
3 But it makes sense that you might. Are they overwhelmed
4 at NARAC?

5 BILL BEAL: At the moment, no. But there's,
6 you know, senior level folks here that are, that we need
7 them to produce some stuff for as well. So at the moment
8 it's just, you know, our own tasking as well as yours.
9 So it --

10 LOU BRANDON: Well you can relegate ours
11 to whatever priority you want.

12 BILL BEAL: Well it sounds like the one that
13 we're looking for is just about done anyway. And they'll
14 probably start working immediately on the one you guys
15 are looking for. But I just wanted to, so Brenda called
16 me and Dave Bowman just wanted me to pass that on to
17 you.

18 So if you have similar requests like that
19 feel free to continue to tell Brenda and give them the
20 heads up. But also call us and let us know that request
21 is in there and we can, you know, help them prioritize
22 it appropriately.

23 LOU BRANDON: All right. I'm pretty sure
24 we've got your number. I'll just jot it down once again
25 for the NIT.

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1 BILL BEAL: Yes, the --

2 LOU BRANDON: Or is it, go ahead.

3 BILL BEAL: The watch office is 202-586--

4 LOU BRANDON: 586.

5 BILL BEAL: 8100.

6 LOU BRANDON: 8100, okay.

7 BILL BEAL: And just have them patch you
8 through to the NIT.

9 LOU BRANDON: Okay.

10 BILL BEAL: All right. And you said this
11 was for your what, executive leadership?

12 LOU BRANDON: Yes. They've tasked us to
13 size it up. But you know RASCAL only projects out to
14 50 miles at the most. So when you're talking impact
15 on Hawaii you guys are the natural fall back resource
16 there.

17 BILL BEAL: Yes, yes sure. And just so we're
18 aware is there a time crunch on that?

19 LOU BRANDON: No.

20 BILL BEAL: Does it need to be done by like
21 a certain briefing time?

22 LOU BRANDON: No, I told Brenda, in fact
23 I asked her a few questions, we didn't want to tie up
24 all the resources there.

25 BILL BEAL: Okay.

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1 LOU BRANDON: But she said they have separate
2 machines and they can run this on one, work on another.

3 BILL BEAL: Great.

4 LOU BRANDON: And we're not in any rush for
5 this result.

6 BILL BEAL: Okay, good. All right. I just
7 wanted to clarify all that.

8 LOU BRANDON: It might takes hours to run
9 it.

10 BILL BEAL: All right. Yes, that's right
11 it's got to out a long way, right.

12 LOU BRANDON: Yes. So we will, we appreciate
13 the call. We'll follow the protocol to first go through
14 the NIT and sorry that we didn't do that this time.

15 BILL BEAL: That's perfectly fine.

16 LOU BRANDON: So what are you guys seeing
17 there? Any insight in terms of whether Unit 1 or Unit
18 3 are having core damage?

19 BILL BEAL: All I really know, all we seem
20 to really know here is what has already been in the NISA
21 report, you know, the NISA press release if you've seen
22 that about the, you know, they've released it at 3.

23 LOU BRANDON: What's the acronym, N-I-S-A?

24 BILL BEAL: NISA, -I-S-A. We're seeing
25 press releases from the TEPCO website. I don't know

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1 if you've --

2 LOU BRANDON: TEPCO, yes, we're getting that.

3 That's the same --

4 BILL BEAL: Yes, so the latest, I think it
5 was like the 8:00 a.m. report made mention, explicit
6 mention of the, that 3 had vented. I don't know if you
7 saw that.

8 LOU BRANDON: No, we didn't see that yet.

9 BILL BEAL: Yes, so Fukushima 1, Unit 3 had
10 vented at I don't remember what time. But there is also,
11 you know, CNN is drawing up headlines that there's a
12 possible melt down that we've been told is not the case.

13 But it's, you know, it's all just sketchy
14 reporting. Otherwise it's just sort of, very little
15 concrete stuff it seems like.

16 LOU BRANDON: That's the feeling we have
17 over here too. It's difficult to really identify --

18 BILL BEAL: Yes, and it's not even clear,
19 you know, what level of success they had with the sea
20 water tactics.

21 LOU BRANDON: Yes.

22 BILL BEAL: I don't know. I guess for now
23 we'll just keep reacting I suppose.

24 LOU BRANDON: All right. We'll keep the
25 beating the bushes over here for information.

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1 BILL BEAL: Great. Okay, Lou.

2 LOU BRANDON: We'll periodically talk to
3 you guys as we go forward.

4 BILL BEAL: Yes, and I guess we'll probably,
5 it might be worth getting on a bridge line call or something
6 once the, once NARAC --

7 LOU BRANDON: This latest (indiscernible,
8 possibly one).

9 BILL BEAL: -- batch, yes.

10 LOU BRANDON: Okay. Sounds good.

11 BILL BEAL: Okay. Thanks, Lou.

12 LOU BRANDON: We'll talk to you next time,
13 Bill.

14 BILL BEAL: Yes.

15 LOU BRANDON: Okay. Bye bye now.

16 BILL BEAL: All right, bye.

17

18

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(CONFERENCE CALL INITIATED)

0%K%B1615365094

BILL BEAL: Bill is here. Anybody else on?

LOU BRANDON: Lou's on and Michelle Hart
is with me.

BILL BEAL: Okay. We've got the volume
turned down here on CNN. But I can hear it through the
phone.

LOU BRANDON: We've got it running in the
background. It's at a low enough level we can still
talk unless it gets too distracting. They're reporting
a possibility, they think a melt down may have occurred.

BILL BEAL: Yes.

LOU BRANDON: You guys watching it too?

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1 BILL BEAL: Yes. Yes, that was, that looks
2 like the same quote that has been up on CNN's front page
3 on the website for a while too. No, Brenda yet?

4 LOU BRANDON: It doesn't sound like it.

5 BILL BEAL: Okay.

6 LOU BRANDON: So this is interesting. All
7 you've got to do is multiply this by 1.5 times 10^{17} and
8 you're right on the last scale. So it's just a factor
9 of, this outer edge would be one and a half becquerel.

10 MICHELLE HART: Okay. Well that works well.

11 LOU BRANDON: So not much of an impact and
12 you're still only two-thirds of the way to Hawaii, right?

13 BILL BEAL: So, Lou, I guess while we are
14 waiting for Brenda can I ask you a question?

15 LOU BRANDON: Sure.

16 BILL BEAL: If, I mean we don't want to ask
17 you to have to make a whole other source term for this
18 thing. Is there a, I know that those two units are
19 different power outputs.

20 So is there, is it as simple as just sort
21 of scaling one versus the other? Is that kosher to do
22 so that we don't have to create a whole new source term
23 for this, like double scenario?

24 LOU BRANDON: Well that's a good question.
25 And when we first started sizing this up we were thinking

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1 how can we model this? You've got two lower level power
2 rated reactors, the Unit 1 and Unit 3 there.

3 BILL BEAL: So 3 is lower?

4 LOU BRANDON: Well no --

5 BILL BEAL: I mean 2 through 5.

6 LOU BRANDON: What we've got is Unit 1 is
7 460. Unit 3 is 784 megawatts. And we chose Grand Gulf
8 as the surrogate which is 1,297 megawatts. So if you
9 add the two little ones together, you know, it's kind
10 of in the ball park of the big one.

11 But the fact is, in the reactor itself the
12 fuel, there's more fuel if you add Unit 1 and Unit 3's
13 fuel together, than you would find in the reactor vessel
14 for Grand Gulf.

15 BILL BEAL: Okay.

16 LOU BRANDON: If that makes sense. So we're
17 going to try and model this with one big reactor instead
18 of two little ones because RASCAL doesn't really have
19 that option of choose two and get a double output.

20 But the fact is if you released all the fission
21 products in two little ones it might be a greater impact
22 than the Grand Gulf is going to provide to you. It's
23 probably way, it will probably over estimate anyway.
24 So it may be fine and to answer this question, what we're
25 looking at right now is these NOAA runs. I don't know

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1 if you've been, high (indiscernible, possibly split)
2 runs.

3 BILL BEAL: I haven't seen them since my
4 last shift which was like a day and a half ago.

5 LOU BRANDON: Okay. So Michelle has figured
6 out that basically these are based on a one becquerel
7 activity release. And you can scale them based on that.
8 So after three days it looks like this plume, the
9 deposition (indiscernible, possibly plot) or the plume
10 plot is about two-thirds of the way to Hawaii.

11 And the outer edge of it, based on this run
12 we just sent to NARAC, if you look at the cesium activity
13 released it would be, you know, you can scale that up
14 to say what the activity would be at the outer edge.
15 And it's like one and a half becquerel, two-thirds of
16 the way to Hawaii.

17 So extremely low activity. You can
18 basically conclude from that the impact in Hawaii is
19 going to be negligible based on this high split,
20 preliminary scaling of their model considering the amount
21 of cesium that was released in the model in the RASCAL
22 run we just did. Does that make sense?

23 BILL BEAL: Okay.

24 LOU BRANDON: Now I think we're going to
25 see the same thing when they're finished with their run.

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1 We'll see that impact projection extend out maybe to
2 100 miles. But it's not going to be nearly to Hawaii
3 with any levels of concern.

4 BILL BEAL: Okay. So --

5 LOU BRANDON: What was it that you wanted
6 to get us all together to discuss? How critical it is
7 that we run this --

8 BILL BEAL: So what I --

9 LOU BRANDON: I think we can --

10 BILL BEAL: What I want, sorry. Go ahead,
11 Lou.

12 LOU BRANDON: We can use this high split
13 result and basically answer the question our management
14 is asking us. And that really takes all pressure off
15 NARAC to run that run until they've got plenty of time
16 to do it.

17 BILL BEAL: Okay, well the main reason I
18 wanted to get you on along with NARAC was because we
19 don't, I just wanted to get, if there was an easy way
20 for NARAC to do a source term for this two unit scenario
21 with just a simple scale, I just wanted to make sure
22 that you were comfortable with that.

23 If it's not that simple, then maybe we could
24 get some advice on how to proceed.

25 LOU BRANDON: Yes, Brenda has been working

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1 with us. And they know how to scale down the source
2 term to use, you know, what we're really concerned about
3 is ingestion pathway impact. Those would be mostly from
4 iodine and cesium. So you can --

5 BILL BEAL: (b)(5)

6 (b)(5)

7
8 LOU BRANDON: Okay. So what you want to
9 know is if there is a, I'm not sure what the question
10 is, a more efficient way for NARAC to run?

11 BILL BEAL: I'm not being very clear. (b)(5)

12 (b)(5)

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25 LOU BRANDON: Let me think out loud here

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1 a little bit. What we sent you yesterday was a 10 percent
2 core melt. And today we were looking at a 40 percent
3 core melt with pretty good containment. And that modeled
4 fairly well what was reported on the ground. So that's
5 probably, are we thinking in terms of worst case or?

6 BILL BEAL: No, not in our case. We just
7 want, in our case we're not worried about worst case.
8 We're worried about the conditions, the cases that we've
9 already looked at. What happens if it happens twice?
10 You know, either one or the other or both.

11 BRENDA POBANZ: So this is Brenda. My
12 question is this. We've rerun the 10 for the one unit.
13 If the third unit goes and the third unit is how much
14 bigger than the first unit can we just scale that first
15 one we already have by something.

16 GAYLE SUGIYAMA: Is it the same isotope mix
17 that you're going to give us?

18 BRENDA POBANZ: Yes, this is --

19 LOU BRANDON: I'm beginning to understand
20 now.

21 BILL BEAL: Yes, that's basically, that's
22 exactly the question we're asking.

23 LOU BRANDON: Yes, you know, the first unit,
24 I think as, you know, these are all kind of ball park
25 projections. So I'll speak and Michelle can correct

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1 me if I'm too far off. But Unit 1 is a 460 megawatt.
2 Unit 3 is a 784.

3 So, yes, if you wanted represent 10 percent
4 core damage for Unit 3, you could just scale that result
5 from Unit 1. You would probably have a representative
6 impact.

7 BILL BEAL: Based on power, total power?

8 LOU BRANDON: Yes, because they're both,
9 they're all BWR's and when it comes down to fuel making
10 energy the fission product mix I think is going to be
11 pretty much the same. So it's just a matter of adding
12 it up.

13 So if you can take those numbers and you
14 can scale the Unit 1 run to represent a Unit 3 by itself.
15 And then if you added them together and ran it again,
16 you would have the impact which is for both of them at
17 the same time.

18 And I think you would probably find if you
19 do Unit 3 by itself you're probably going to see the
20 impact plot extend just a little bit beyond what it was
21 for Unit 1. And if you add them together it might go
22 out twice as far as the Unit 1 by itself. Just guessing.

23 BILL BEAL: Okay.

24 LOU BRANDON: Yes, that's one way to approach
25 this. And, you know, we can run new source terms and

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1 send them to NARAC. But if you could just add the numbers
2 up that's --

3 BILL BEAL: Yes, that's what, we didn't want
4 to have to make you guys do that. That's why I was asking
5 this question.

6 LOU BRANDON: I think it's, it sounds like
7 a pretty simple process.

8 BRENDA POBANZ: Oyster Creek is like right
9 in between the power ratings of both those Dai-ichi units.
10 Yes, Oyster Creek is 619.

11 LOU BRANDON: That's right. We've been
12 scaling things back a little bit because of Oyster Creek.

13 GAYLE SUGIYAMA: We accidentally hung up on
14 you guys. So just to confirm so what do you need from
15 us to run? Can we, do you need us to run both a 1 separately,
16 which we've already done? A 3 separately and then a
17 1 plus 3 or?

18 BILL BEAL: Yes, I think since we've --

19 BRENDA POBANZ: And are we doing --

20 BILL BEAL: Since we've already done the
21 1 we'll run the 3 and then the 1 plus 3.

22 BRENDA POBANZ: Are we doing that with the
23 10 percent scenario?

24 LOU BRANDON: Ten percent core melt. That's
25 probably a good one to use.

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1 BREND A POBANZ: Okay.

2 BILL BEAL: Yes, that's the one we would
3 like to use.

4 LOU BRANDON: As long as containment is
5 holding that gives you a realistic picture of a low impact
6 situation.

7 BREND A POBANZ: Okay, but let me just say
8 this. Ben and I are about, are on the turnover to a
9 new team that's going to be on for the night shift.
10 Ron Baskett is going to lead that. Michael Dillon is
11 also on that team and he's here with us.

12 So Michael is going to ask a question because
13 he is probably going to be the guy doing it.

14 MICHAEL DILLON: I wanted to confirm you
15 have reviewed the Unit 1 case that had been sent and
16 that meets your needs for Unit 1. Is that correct?

17 BILL BEAL: Has the Unit 1 stuff we received,
18 does that meet our needs?

19 FEMALE PARTICIPANT: The Unit 1 was the one
20 from last night.

21 BREND A POBANZ: It was like 24 hours ago.

22 BILL BEAL: Two thumbs up on the TMI (phonetic)
23 Chernobyl, et cetera comparison.

24 BREND A POBANZ: Thank you. So we're out
25 on that? Thank you.

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1 BILL BEAL: Hang on. I think they want,
2 hang on Dave's calling into the bridge line.

3 LOU BRANDON: Okay.

4 DAVE: Hello.

5 LOU BRANDON: Hello is this Dave?

6 GAYLE SUGIYAMA: NARAC's here.

7 DAVE: Is that Gayle?

8 GAYLE SUGIYAMA: Yes, this is Gayle with
9 Ron Baskett, Michael Dillon and Brenda Pobanz.

10 DAVE: Okay. So I'll start with the good
11 news. I just talked through the TMI comparison and
12 Chernobyl comparison with Neile Miller and she was happy
13 with that. So --

14 GAYLE SUGIYAMA: Okay. You did see that
15 there were presenter notes at the bottom of the page
16 if you want to get, sort of the background on how we
17 did the sources and things.

18 DAVE: Yes, I got that.

19 GAYLE SUGIYAMA: We didn't want to put that
20 on the slide. But we thought you might need that.

21 DAVE: Okay, so that was the good news.

22 (b)(5)
23

24 I don't know if you've talked with Bill about this.

25 GAYLE SUGIYAMA: Yes, Bill was just going

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1 over that with Lou I guess.

2 BREND A POBANZ: Yes, so we've got to plan
3 ahead for that it sounds like.

4 DAVE: Right. So I mean they're going to
5 ask for all possible permutations. So, you know, an
6 accident at 1, an accident at 3, an accident at both.
7 And we just got an e-mail about a catastrophic accident
8 at both. So --

9 GAYLE SUGIYAMA: The same thing, we're going
10 to scale different. So we're going to just do scaling.

11 DAVE: I mean, I don't think we need to do,
12 yes, exactly. Scaling is absolutely the right way to
13 do it. We don't need to do detailed calculations because
14 we know that we don't have plant condition information
15 anyway.

16 So, but I just wanted to pass on that they
17 are asking, you know, what if 3 has a release and what
18 if both do at the same time.

19 LOUBRANDON: Sounds good. So I think you've
20 got everything you need from us at this time.

21 GAYLE SUGIYAMA: Okay. So as I mentioned,
22 Dave, you (indiscernible) Ron Baskett is taking over
23 response manager for the night shift. John will be back
24 around 10:00. And then I'll be back. Brenda will be
25 back on the 2:00 p.m. thing.

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1 So obviously if anything big happens, you
2 know, Ron will call us and spin, when we start getting
3 real information in something that we really need to
4 do, you know, we will spin up if it gets real. Otherwise
5 we'll (indiscernible) get to that thing. So any other
6 requests that need to cover? I mean anything else because
7 we don't have, you know, anything on the table.

8 LOU BRANDON: As you produce these results,
9 Gayle, can you share them with Lou at the NRC please.

10 GAYLE SUGIYAMA: Well, yes, we're going to
11 send it the NIT and the NIT will get it to you guys.
12 The NIT has told us they want to control distribution
13 of everything.

14 LOU BRANDON: Okay. That's fine.

15 BRENDA POBANZ: We'll ask them if we can
16 share it with you, Lou.

17 GAYLE SUGIYAMA: If you want it on the web.
18 But we'll go through the NIT. And we haven't uploaded,
19 so if you're happy with the slide we'll actually go ahead
20 and post it, the slide set on the web as well and release
21 it to you guys only at DOE (phonetic).

22 DAVE: Okay.

23 GAYLE SUGIYAMA: I just mailed it to you
24 guys. I guess just the e-mail copy.

25 BRENDA POBANZ: They have it. But we'll

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1 post (indiscernible). Anyway.

2 GAYLE SUGIYAMA: Very good.

3 DAVE: So there is one other thing. The
4 naval reactor folks, when I talked to them I put it in
5 an e-mail, but if you guys can keep an eye on the local
6 weather and they wanted to know if there is any significant
7 --

8 GAYLE SUGIYAMA: We've got that as a regular
9 thing.

10 BRENDA POBANZ: Yes, we sent them that 24
11 hour forecast and we'll do that every day.

12 GAYLE SUGIYAMA: Yes.

13 DAVE: No, but I mean so, yes. But one thing
14 they were asking, and I think actually it makes sense
15 is I don't know how often you like look at the local
16 weather near the plant. But people are going to want
17 to know if the wind direction changes.

18 GAYLE SUGIYAMA: Prior to doing the
19 forecasting we'll flag them if anything really big kind
20 of changes, like it suddenly (indiscernible) on shore
21 or something.

22 DAVE: Exactly. That's what people are
23 going to want to know.

24 GAYLE SUGIYAMA: That will be part of our
25 forecasting. We'll look at that. And since we're giving

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1 local conditions to the NRC we run the local (indiscernible,
2 possibly surface) wind conditions at the plants every
3 eight hours I guess we're doing for the NRC. That will
4 also help us. So we'll definitely flag anything.

5 BREND A POBANZ: So the whole point of the
6 24 hour forecast being set earlier in the day is the
7 fact the winds are going to continue to stay offshore
8 for the next 24 hours.

9 GAYLE SUGIYAMA: Yes, Monday may be --

10 BREND A POBANZ: Monday may be, but we'll
11 give you guys a big heads up before it looks like anything
12 would start to move on land.

13 DAVE: Okay. All right.

14 GAYLE SUGIYAMA: Okay. So we'll sign off.

15 Okay.

16 BILL BEAL: Thanks everybody.

17 LOU BRANDON: All right. Talk to you next
18 time.

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1 (CONFERENCE CALL INITIATED)

2 0%R9S5_15365094

3 GREG CASTO: NRC Operations Center, Greg
4 Casto.

5 DAVE YOUNG: Hey, Greg. This is Dave Jung
6 (phonetic) from DOE.

7 GREG CASTO: Hey, Dave.

8 DAVE JUNG: Hey, we just got a request from
9 our DOE contacts in Japan. So the Japanese ambassador
10 to the United States would like some talking points on
11 the four nuclear experts that are over, that are going
12 over, that are now over there in Japan on the DART team.

13 And we know you guys have one or two guys
14 on the DART team, correct?

15 GREG CASTO: We have, I think we have one
16 on the team and then another individual coming. Although
17 we are sending two people over.

18 DAVE JUNG: Right, so do you guys mind helping
19 us craft like one or two talking points explaining what,
20 you know, your person is doing over there?

21 GREG CASTO: Sure, we can do that. Talking
22 points, not bios, but in general what their purpose is.

23 DAVE JUNG: For being part of the team, the
24 reason.

25 GREG CASTO: Got it, talking points.

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1 DAVE JUNG: If you can provide that to me
2 like maybe in 15 minutes. Briefing is in like half an
3 hour and then we've got to get it to the Ambassador.

4 GREG CASTO: Okay. All right. Got it.
5 Phone number back.

6 DAVE JUNG: E-mail it to us.

7 GREG CASTO: I'm sorry, e-mail. Do we have
8 their e-mail? I'm not sure if we've got their e-mail.
9 What's your e-mail and we'll send it to you.

10 DAVE JUNG: It's nitops@nnsa.doe.gov.
11 I'll spell it for you.

12 GREG CASTO: Okay, NIT. All right.

13 DAVE JUNG: N as in November, I as in India,
14 T as in Tango, O as in Oscar, P as in Papa, S as in Sierra,
15 @, N as in November, N as in November, S as Sierra, A
16 as in Alpha @ doe.gov.

17 GREG CASTO: Okay. One question. Okay.
18 nitops@nnsa or nitops.nnsa?

19 DAVE JUNG: Nitops@nnsa.doe.gov.

20 GREG CASTO: .doe.gov, okay got it. Okay,
21 I understand. All right. We'll get right back to you.

22 DAVE JUNG: Thank you very much, appreciate
23 it.

24 GREG CASTO: Okay, bye.

25 DAVE JUNG: Bye.

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(CONFERENCE CALL INITIATED)

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MALE PARTICIPANT: (indiscernible)

speaking, may I help you?

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1 GREG CASTO: Hi, can you transfer me to Dave
2 Jung (phonetic) in the NIT. This is Greg Casto at the
3 NRC.

4 MALE PARTICIPANT: What was your name again,
5 Dave what?

6 GREG CASTO: Greg Casto.

7 MALE PARTICIPANT: Greg Casto.

8 GREG CASTO: And I'm looking for Dave Jung.

9 MALE PARTICIPANT: Dave Jung or Dave Bowman?

10 GREG CASTO: No, Jung.

11 MALE PARTICIPANT: Jung, okay.

12 GREG CASTO: In the NIT.

13 MALE PARTICIPANT: Okay, stand by.

14 GREG CASTO: Thank you.

15 MALE PARTICIPANT: You're welcome. Dave
16 is on the line. Go ahead.

17 GREG CASTO: Thank you.

18 MALE PARTICIPANT: You're welcome.

19 GREG CASTO: Dave.

20 DAVE JUNG: Hey, Greg. How's it going?

21 GREG CASTO: Pretty good. I just wanted
22 to circle back with you and let know that our liaison
23 people should be sending that to you any minute.

24 DAVE JUNG: Great. Thank you very much.

25 GREG CASTO: Yes, momentarily. They're

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1 drafting it right now.

2 MALE PARTICIPANT: We told them within 15
3 minutes.

4 GREG CASTO: Okay. So if you do not see
5 it within 15 minutes if you want to call us back we'll
6 be sure to get it to you.

7 DAVE JUNG: Okay. Thank you very much,
8 appreciate it.

9 GREG CASTO: Okay, thanks. Bye.

10 DAVE JUNG: All right. Talk to you later.
11 Bye.

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20 (CONFERENCE CALL INITIATED)

21 0%T7{3_15365094

22 RON BASKETT: NARAC, this is Ron Baskett.

23 LOU BRANDON: Hey, Ron, this is Lou Brandon,

24 NRC.

25 RON BASKETT: Lou Brandon?

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1 LOU BRANDON: Yes.

2 RON BASKETT: Yes, how are you doing, Lou?

3 LOU BRANDON: Doing pretty good. We're just
4 calling to get some perspective on how the runs you're
5 working on are going. Number one you guys are running
6 Unit 1, Unit 3 and then the combined.

7 RON BASKETT: Right, yes.

8 LOU BRANDON: Are you guys going to be able
9 to share that with us at the NRC?

10 RON BASKETT: Right, actually, yes, I should
11 have asked that of, when I was talking with Bill Beal
12 and Dave Bowman. Yes, because we went in and showed
13 it with them. I understand you guys are on the share
14 list so let me just confirm with them and then share
15 it out to you guys.

16 LOU BRANDON: Okay and then second question
17 is we've got that worst case scenario for Grand Gulf.
18 Just in terms of estimated time frames when that might
19 get processed. It should be a lower priority. But we
20 just want to tell our executives what to expect.

21 RON BASKETT: Yes, Lou, Michael Dillon is
22 just about done with that and about ready to share it
23 to NIT Op.

24 LOU BRANDON: Okay, they'll do the QC
25 (phonetic) and then release it to us after that?

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1 RON BASKETT: That's correct.

2 LOU BRANDON: All right.

3 RON BASKETT: Okay.

4 LOU BRANDON: So we'll stand by for both
5 of those results.

6 RON BASKETT: All right. Do you want us
7 to call you back when they've been shared?

8 LOU BRANDON: Yes, that would be nice.

9 RON BASKETT: I've got the (indiscernible,
10 possibly TMP) number of 816-5184.

11 LOU BRANDON: 301-816-5184 is what you have?

12 RON BASKETT: I have.

13 LOU BRANDON: I'm not familiar with that
14 number.

15 RON BASKETT: Okay or just dial the 5100
16 and ask --

17 LOU BRANDON: 51 will get you there for sure
18 if you have any trouble with the other numbers, yes.

19 RON BASKETT: Okay.

20 LOU BRANDON: Okay. Thanks, Ron. Talk to
21 you later.

22 RON BASKETT: Okay. Bye bye.

23

24

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(CONFERENCE CALL INITIATED)

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MICHELLE HART: NRC, this is the PMP
(phonetic). This is Michelle Hart.

RON BASKETT: This is Ron Baskett from NARAC
calling for Lou, Lou Brandon.

MICHELLE HART: Just a moment.

RON BASKETT: Thank you.

LOU BRANDON: Hello, Ron.

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1 RON BASKETT: Hi, Lou. So you should have
2 shared to you in the NARAC calculations the series of
3 six runs of, and they're called set two. And they're
4 labeled Unit 1, 10 Percent; Unit 1, 100 percent; and
5 then Unit 3; and then Unit 1 plus 3.

6 LOU BRANDON: Okay. Excellent.

7 RON BASKETT: So it should be there.

8 LOU BRANDON: All right. We'll look for
9 that one, print it out and then share it here. And then
10 there's that Grand Gulf one that's still coming, right?

11 RON BASKETT: That's right. Yes, we're
12 still working that. There will be a (indiscernible)
13 will have all the (indiscernible, possibly plots) set
14 up. But I think, I'm not sure which plot, if anyone
15 will look at specific plots.

16 LOU BRANDON: Yes.

17 RON BASKETT: The largest thing is of course
18 the, for the evacuation of radio iodine.

19 LOU BRANDON: Okay.

20 RON BASKETT: All right.

21 LOU BRANDON: All right. Thanks, Ron for
22 calling. We'll pick it up.

23 RON BASKETT: Bye bye.

24 LOU BRANDON: Bye.
25

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(CONFERENCE CALL INITIATED)

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RICK LENTZ: (indiscernible).

GREG CASTO: This is Greg Casto with the
Nuclear Regulatory Commission.

RICK LENTZ: One second. Go ahead. This
is Rick Lentz (phonetic), Director of Radiological Drills.
What can I do for you?

GREG CASTO: Hi, Rick. We were just on a
phone call and got your name to call concerning some

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1 information that we got from the USS Ronald Reagan.

2 RICK LENTZ: Right.

3 GREG CASTO: Concerning some contamination
4 that was picked up on an air sample and some readings
5 and also an incident where some of the flight crews had
6 been contaminated after being on a Japanese command ship.

7 RICK LENTZ: Yes, sir.

8 GREG CASTO: Okay. We wanted to discuss
9 that a little bit. You know, when we got the briefing
10 it was kind of general I guess. But we wanted to follow
11 up and get some additional information if we could.
12 And you were the contact to get that information from.

13 RICK LENTZ: Sure and also recognize I'm
14 going to be getting an update here in the near future.
15 But I'll give you what we have right now.

16 GREG CASTO: Okay. We've got, I am at the,
17 at our operations center.

18 RICK LENTZ: Okay. What's the number there?

19 GREG CASTO: Headquarters, the number is
20 301-816-5419.

21 RICK LENTZ: Okay. I have 301-816-5419.

22 GREG CASTO: That's correct.

23 RICK LENTZ: And your name, sir?

24 GREG CASTO: Greg Casto.

25 RICK LENTZ: Greg Casto.

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1 GREG CASTO: That's correct.

2 RICK LENTZ: Okay. So I'll run down what
3 we have right now and when I get an update I'll give
4 that to you.

5 GREG CASTO: Okay. Let me give you one more
6 number too.

7 RICK LENTZ: Sure.

8 GREG CASTO: And that is the number to our
9 operations center officer. And if we lose connection
10 or you need to get a hold of us and this number doesn't
11 work you can call directly into the ops center and they
12 will direct you to us.

13 RICK LENTZ: Okay.

14 GREG CASTO: And that number is
15 301-816-5100.

16 RICK LENTZ: Okay. 301-816-5100. And
17 that's the ops center officer.

18 GREG CASTO: That's correct.

19 RICK LENTZ: Okay. And just for my own
20 situational awareness here, what's your position at the
21 NRC, sir?

22 GREG CASTO: My position is protective
23 action assistant director.

24 RICK LENTZ: Protective action assistant
25 director.

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1 GREG CASTO: That's correct.

2 RICK LENTZ: Okay. All right. So this is
3 what we've got right now. Ronald Reagan was 100 miles
4 out centerline of the plume, what would be the plume.
5 And we're trying to (indiscernible, possibly estimate)
6 the exact ship position.

7 But what we're getting now from
8 meteorological data is that the wind is basically going
9 due east. So if we assume due east at 100 miles that
10 gives you an idea roughly of where the ship was. So
11 there's a few things that occurred. One we have air
12 particulate samplers in our plants.

13 And most of the ones in the plants, you know,
14 we have outside ventilation in the carriers, alarmed
15 at 2.5×10^{-9} microcuries per milliliter. The ship took
16 back up portable air samplers so, you know, the hand
17 held air particulate samplers that we measure with
18 (indiscernible, possibly friskers) and they got roughly
19 the same number, around 2.5×10^{-9} microcuries per
20 milliliter.

21 I have no information that the ship took
22 a radioiodine sample, okay.

23 GREG CASTO: Right and we heard that as well.

24 RICK LENTZ: Now we've got some rough thumb
25 rules and it's not entirely clear to me that it's completely

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1 applicable to this plant. But we would say, you know,
2 if you look at roughly 80 hours after shut down the fraction
3 of your iodine to your particulate would be about .4.

4 So if I use that, that would put radioiodine somewhere
5 around 1×10^{-9} .

6 GREG CASTO: Okay. That's contingent on
7 there being a release with radioactive iodine that's
8 (indiscernible, possibly resolvable).

9 RICK LENTZ: I'm making that assumption here,
10 it's been what's going on.

11 GREG CASTO: Yes, that, okay. All right.

12 RICK LENTZ: If that's not true I could use
13 that information.

14 GREG CASTO: Okay. All right.

15 RICK LENTZ: All right. So that's one piece.

16 The other piece is we had one of the helicopters from
17 Reagan had landed on a Japanese flagship that was
18 supposedly about 50 miles away from the plant. Now I
19 do not know if that flagship was (indiscernible, possibly
20 centerline) or not.

21 When the helicopter came back and landed
22 on Reagan, they surveyed first the air crew, the crewmen
23 after they got off the helicopter and they got roughly
24 2,300 (indiscernible) per minute using a frisker on their
25 shoes. And the conversion for our friskers is 100

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1 (indiscernible, possibly corrected count) or 100 counts
2 above background would amount to close to 450 microcuries
3 per 100 centimeters squared, which and that's to calibrate
4 for cobalt 60's.

5 So, you know, depending on the energy there
6 it could be a little off. So basically if you take 23
7 X 450 that's about what were saying equivalent cobalt
8 60 on their shoes.

9 GREG CASTO: Okay. All right.

10 RICK LENTZ: And there was also some low
11 level radioactivity on the outside of the helicopter.
12 Additionally, we had another helicopter that was flying
13 around, we don't know exactly where it went.

14 But when it came back on Reagan they surveyed the
15 crewmen off that helicopter and in that case we had roughly
16 400 (indiscernible) at worst case on an airman's clothing.
17 And the report we initially got was roughly 100
18 (indiscernible) on hands of one of the airmen and 100
19 (indiscernible) on cheeks.

20 So it sounds like fairly widespread low level
21 contamination on clothing and skin. And I'll try to
22 get some better numbers there as well.

23 GREG CASTO: Okay, now do you know, do you
24 have the name for the flagship?

25 RICK LENTZ: I do not. I will try to get

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1 that whenever I get a call. I should be getting a call
2 on an update. I'll see if I can't get that.

3 GREG CASTO: Okay.

4 RICK LENTZ: And what additional information
5 do you need other than that? What I know now is that
6 as things stand is the wind is currently heading due
7 east. Now I'm, it's been shifting around so I'm making
8 an assumption that was the direction when the carrier
9 was there. And I'll see if I can't get an update on
10 that as well.

11 GREG CASTO: Okay, if we have some
12 (indiscernible, possibly map) information that we get
13 from NARAC.

14 RICK LENTZ: Yes, that's where we get ours
15 as well.

16 GREG CASTO: Right, okay. You probably get
17 some variation, you know, by the time you get 100 miles
18 out maybe. But, is there any way that you can do an
19 isotopic analysis of that particulate sample? Do they
20 have the capability on board?

21 RICK LENTZ: Reagan I do not believe has
22 that capability. But I will validate that.

23 GREG CASTO: Okay or single channel
24 (indiscernible, possibly analyze) or even if they --

25 RICK LENTZ: No, I don't think they have

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1 any of that on board.

2 GREG CASTO: All right. Okay.

3 RICK LENTZ: I'll validate that though.
4 Some of our carriers were getting some updated capability.
5 I don't think Reagan got that. But I'll check.

6 GREG CASTO: Okay. Yes, that would be
7 interesting. One thing we might be able to do and this
8 is one problem that we've had. I mean we know that the
9 site has been doing controlled venting of the containment
10 and done some releases.

11 Also Unit 1 when they had the hydrogen
12 explosion to the reactor building, also certainly could
13 have, there could have been some contamination release
14 that was present inside the building. Loose
15 contamination. So that wouldn't be unsuspected.

16 But as much information as we can get
17 including as accurate as far as distance from the units
18 that the ship was when the air samples were taken, we
19 might be able to extrapolate back to the site and get
20 some idea of the source term releases that are coming
21 from the site. And that would help us greatly because
22 that's a piece of information that we've not been able
23 to get.

24 RICK LENTZ: Okay. I will work on doing
25 that. We were trying to get lat and long of the ship.

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1 So that would get you as accurate as you're going to
2 get.

3 GREG CASTO: Okay. That would be great.
4 And once we get that we can tell if it would be consistent
5 with what we might expect from the activities that we
6 understand they're doing or if there may be releases
7 that are, maybe higher than what we would expect from
8 what we've been hearing.

9 RICK LENTZ: Yes, that's the problem is we
10 don't know if this is a continuous release, if it was
11 a burst of some sort. I mean it's --

12 GREG CASTO: Right, also the time that air
13 sample was taken would be very helpful.

14 RICK LENTZ: Okay. I will work on getting
15 that as well.

16 GREG CASTO: Because that might coincide
17 with some of that.

18 RICK LENTZ: Yes, right.

19 GREG CASTO: Yes. Okay.

20 RICK LENTZ: And in terms of meteorological
21 data, what was the wind speed again, 3.5 meters per second?
22 What we were told by NARAC was 3.5 meters per second
23 headed due east with a Pasquill category of Delta. Does
24 that match what you have?

25 GREG CASTO: We will look. Due east, I think

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1 we were looking from the southwest. And you said due
2 east, that's towards, that's not wind from. Is that
3 correct?

4 RICK LENTZ: That's towards correct. And
5 that was current. So, you know --

6 GREG CASTO: So wind from west.

7 RICK LENTZ: I'll try to get some information
8 as to what we saw with the carrier too.

9 GREG CASTO: You've got it. From 270 then.

10 RICK LENTZ: Right from 270.

11 GREG CASTO: Okay and stability class Delta,
12 okay.

13 RICK LENTZ: That's what we've got, yes.
14 We're doing hand calcs to try to figure out the, you
15 know, for perspective, you know, where do we get to the
16 less than 5×10^3 microcuries per milliliter number.

17 GREG CASTO: Right. Now one of the things,
18 and when we were on the phone call and I'm not really
19 sure who made this statement, I believe it was the
20 individual that was on the Ronald Reagan that was
21 knowledgeable and in the air sample result, he did state
22 that, you know, over so many hours that you would exceed
23 the PAG for protective actions.

24 And that, we don't believe that is the case.

25 RICK LENTZ: For the levels that we saw on

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1 the carrier I would agree with you. The concern is we
2 had provided some guidance, I think I understand the
3 concern, we had provided some guidance to the fleet as
4 to, you know, stay outside of this distance which, you
5 know, we drew an arc around 50 miles and we said hey,
6 in plume path don't come in anything closer than 100.

7 The concern is that if there's some sort
8 of continued vent going on and the ship comes in closer
9 could we get ourselves in that sort situation.

10 GREG CASTO: Got you. Yes, he did relate
11 some information that made us believe that they were
12 concerned about exceeding the PAG. Now that PAG could
13 be some, you know, some self-imposed internal limit that
14 they were --

15 RICK LENTZ: Right and back to your original
16 point, I mean you know, some of the assumptions we're
17 making is based on a more intact plant and closer to
18 one of our plants and --

19 GREG CASTO: Right and we're doing the same
20 thing. And we understand, okay.

21 RICK LENTZ: It's a little challenging to
22 try to come up with that. But I think, you know, at
23 this time assuming, you know, you're at 80 hours after
24 shut down, you know, a fraction of .4 is probably not
25 unreasonable assuming it's from core damage.

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1 GREG CASTO: Right, right. And we do, we
2 have gotten some indication that Unit 1 did have possibly
3 some minor core damage.

4 RICK LENTZ: Right.

5 GREG CASTO: Yes.

6 RICK LENTZ: Okay. So when I get more
7 information I'll touch back with you and we'll compare
8 notes.

9 GREG CASTO: Okay. I appreciate that. Now
10 for this upcoming shift we're getting read to turnover.
11 So Kathryn Brock would be your contact.

12 RICK LENTZ: Kathryn Brock.

13 GREG CASTO: Kathryn Brock at the same number.
14 And she will be the protective action assistant director.

15 RICK LENTZ: Okay. I got it.

16 GREG CASTO: Okay.

17 RICK LENTZ: Thank you.

18 GREG CASTO: Well thank you, appreciate it.

19 RICK LENTZ: Yes, bye.

20 GREG CASTO: Bye.

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(CONFERENCE CALL INITIATED)

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KATHRYN BROCK: Nate, are you going to be here all day.

NATE RUSSO: Yes. Okay, good because I just got here a while ago.

KATHRYN BROCK: Good because I just got here a while ago.

NATE RUSSO: Yes, we just changed at 7:00.

KATHRYN BROCK: This DOE, yes. Yes, that's what we were just doing. So, Nate, is there anybody else I should write down their names?

NATE RUSSO: Yes. In the NIT today is Steven Luke (phonetic)?

KATHRYN BROCK: Luke?

NATE RUSSO: Yes, Steve Luke.

KATHRYN BROCK: Steve Luke, okay.

NATE RUSSO: Yes, it's two first names.

KATHRYN BROCK: All right. Good.

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1 NATE RUSSO: Mark Britinger (phonetic).

2 KATHRYN BROCK: Okay.

3 NATE RUSSO: Chris Smith.

4 KATHRYN BROCK: Okay.

5 NATE RUSSO: And Bob Jarrell.

6 KATHRYN BROCK: Okay. Good. All right.

7 So we had a question for you. I'm sorry not for you.

8 I'm talking to some of our guys.

9 JACK FOSTER: Who are you talking to?

10 KATHRYN BROCK: This is Nate Russo
11 (phonetic). He's from the DOE NIT. And his question
12 is he heard Reactor 3 might have (indiscernible, possibly
13 mock) fuel. So that's question number one. This is
14 Dai-ichi?

15 NATE RUSSO: Yes, Dai-ichi.

16 JACK FOSTER: I heard the same thing, but
17 I don't have confirmation of that. We're having another
18 call coming from somebody who either is in Japan or has
19 direct contact with Japan at this time. I mean, soon,
20 very soon and we'll be, can confirm that after that call.

21 NATE RUSSO: And the question we have for
22 our modelers is if it's mock fuel does that significantly
23 change the source term? I know we're just going on
24 estimates for --

25 KATHRYN BROCK: I don't think we would do

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1 anything different here. No, the answer, we're thinking,
2 no. But we'll --

3 JACK FOSTER: Because the enrichment doesn't
4 really change.

5 KATHRYN BROCK: Yes, but we can think about
6 that and ask around too. All right. So we'll have to
7 get back to you on your question. Do you have any other
8 questions that we could ask for you or something you
9 need?

10 NATE RUSSO: No, that's it. And we're
11 working to confirm the mock fuel as well. So if we find
12 anything out we'll contact you with that as well.

13 JACK FOSTER: What's your number, Nate?

14 KATHRYN BROCK: They've got, it's right here,
15 925-422-9100. No, no, it's 202-586-8100.

16 NATE RUSSO: Correct, correct.

17 JACK FOSTER: Okay, thanks.

18 NATE RUSSO: And we're not changing our
19 source term estimates (indiscernible)?

20 KATHRYN BROCK: As of right now, no.

21 NATE RUSSO: Okay, do you have any questions
22 for us?

23 KATHRYN BROCK: I don't think so. I don't
24 know enough to ask a question right now.

25 NATE RUSSO: And I'm sorry I missed your

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1 name.

2 KATHRYN BROCK: Kathy Brock and Jack Foster.

3 NATE RUSSO: And Jack Foster.

4 KATHRYN BROCK: Yes.

5 NATE RUSSO: All right.

6 KATHRYN BROCK: Thank you.

7 JACK FOSTER: Thanks. (indiscernible).

8 KATHRYN BROCK: Bye.

9 NATE RUSSO: Okay, bye bye.

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(CONFERENCE CALL INITIATED)

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JACK FOSTER: NRC Operations Center, PMT
(phonetic).

NATE RUSSO: Good morning. This is Nate
Russo on the NIT. I was calling with a few questions.

KATHRYN BROCK: Hang on. We're just getting
the volume up. Speak up again, sorry.

NATE RUSSO: Good morning. My name is Nate
Russo. I'm calling from the DOE NIT.

KATHRYN BROCK: Hey there, Nate. This is
Kathy Brock and Jack Foster.

NATE RUSSO: Hi there. I was calling.
We're, we heard reports that Reactor 3 at Fukushima
Dai-ichi might be mock fuel instead of and we were wondering
if that would change the source term that we should be
working with.

KATHRYN BROCK: Hang on just a second. We're
going to get the reactor guys who know the answer.

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KATHRYN BROCK: Operations Center, NRC.

Kathryn Brock.

NATE RUSSO: Hi, Kathy. It's Nate Russo again.

KATHRYN BROCK: Hey.

NATE RUSSO: We had a couple, we have a question and a request. (b)(5)

(b)(5)

BRUCE WATSON: And probably the reason why too, right?

NATE RUSSO: And probably the reason why, yes, because we need to send that up our chain as sort of confirmation.

KATHRYN BROCK: So hang on. Go ahead and, this is Bruce Watson, he's --

BRUCE WATSON: Yes, at this point we don't

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1 even know the age of the cores. (b)(5)

2 (b)(5)

3 we don't know if they're beginning of the fuel cycle
4 or the end of that fuel cycle run.

5 KATHRYN BROCK: So are you saying that it's
6 all just part of the speculation that we have?

7 BRUCE WATSON: Yes.

8 KATHRYN BROCK: We don't know for sure.

9 BRUCE WATSON: Well, no, it may be. But,
10 I mean, there's other variables. We don't know if they
11 were at the end of core life or the beginning of core
12 life because that would make a significant change in
13 an inventory.

14 KATHRYN BROCK: (b)(5)

15 (b)(5)

16 BRUCE WATSON: Yes, so we don't know.
17 There's too many variables.

18 KATHRYN BROCK: So what is your management
19 needing that they want an e-mail?

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DAVE BOWMAN: Hi, Kathy. This is Dave Bowman
over at the NIT.

KATHRYN BROCK: Hey there.

JACK FOSTER: Hey, Dave.

DAVE BOWMAN: So I guess you're talking to
Nate about the information we've gotten

(b)(5)

(b)(5)

KATHRYN BROCK: Yes.

DAVE BOWMAN: Okay and so, I'm sorry, I'm
just coming up, but Nate said he talked to you and your
response was this wouldn't make that much of a difference
as far as source term goes.

KATHRYN BROCK: Yes, you know, just as far
as plugging in models and things I think we still expect
that the source term wouldn't change. But again it's
one of many, many variables that --

DAVE BOWMAN: Okay, I understand that.

(b)(5)

(b)(5)

(b)(5)

So if you wouldn't mind, could
you just write us a little e-mail so that we can document,

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1 you know, NRC says that, and I understand you'll have
2 to caveat it within all the other uncertainties or
3 whatever.

4 But I would just like, if it's not too much
5 trouble if you could just send us a little e-mail (b)(5)

6 (b)(5)

7 (b)(5)

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9
10 KATHRYN BROCK: So your management needs
11 that or what is the, I'm just trying to understand the
12 root of it?

13 DAVE BOWMAN: That's basically it, yes.
14 I mean, we will report it. But I would just like to,
15 if we could have an e-mail from NRC I think it would
16 carry a little more weight.

17 KATHRYN BROCK: Okay, but see that's what
18 we're worried about. We're happy to send e-mails in
19 support. You guys are helping us, have been helping
20 us. But I'm not sure that it, to us it doesn't matter
21 that much.

22 JACK FOSTER: You know, if there is a concern
23 perhaps you should run one (b)(5) t

24 (b)(5)

25 KATHRYN BROCK: Can we do that? See we can't

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1 make those runs so we have nothing to back it up is the
2 problem. It's speculation because we can't back up what
3 we're saying. You know what I mean?

4 DAVE BOWMAN: Okay.

5 KATHRYN BROCK: Can you guys do those kinds
6 of runs?

7 DAVE BOWMAN: I don't know.

8 KATHRYN BROCK: No, we're the ones that come
9 up with the source terms.

10 DAVE BOWMAN: Someone in the room may know,
11 so.

12 KATHRYN BROCK: We're the ones that come
13 up with the source term, which means that we would have
14 to be the ones to do the run. All right. So I want to
15 help you.

16 DAVE BOWMAN: I understand.

17 KATHRYN BROCK: So we can --

18 JACK FOSTER: You know I think it would,
19 yes, this is Jack Foster, you know, if you think about
20 the variables associated with the source term and a lot
21 of it has to do with being at the beginning of the cycle
22 or the end of the cycle when it comes to burn up.

23 And you know, we don't even know where they
24 were at in that respect, as you're probably aware of.

25 (b)(5)

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1 (b)(5)

2
3 DAVE BOWMAN: Exactly, yes.

4 JACK FOSTER: But the actual real issue here
5 is to determine when in that cycle the time frame was
6 when the release or when or where we're at right now.

7 (b)(5)

8
9 KATHRYN BROCK: But can we tell them that
10 in an e-mail?

11 JACK FOSTER: Yes, (b)(5)

12 (b)(5)

13
14 (b)(5)

15 And we can figure something
16 out. I'll get Bruce to (indiscernible) up something
17 maybe.

18 KATHRYN BROCK: All right. Do we have your
19 e-mail address? I know, I think you've sent us e-mails,
20 but --

21 JACK FOSTER: But you see what I'm saying
22 is basically it really is a case of bigger fish to fry
23 to find out where in the cycle we are. That's where
24 you're going to be able to kind of fine tune the analysis.

25 DAVE BOWMAN: Okay.

JACK FOSTER: Now if we told you that it

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1 made a difference I don't know if that would make a
2 difference in whether, you know, how you should proceed
3 with --

4 DAVE BOWMAN: I understand.

5 JACK FOSTER: You know, I mean I don't think
6 it's going to, if we told you, yes, it will a little
7 bit. You know, what would you do with that?

8 DAVE BOWMAN: I mean we're not looking to,
9 I think I agree with where you're going that this is
10 a detail. But we just want to have something, you know,
11 that's --

12 KATHRYN BROCK:

(b)(5)

13 (b)(5)

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16 JACK FOSTER: NRC said this and, I do think,
17 you know, considering --

18 DAVE BOWMAN: Well so, I mean, I hear you.

19 (b)(5)

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23 KATHRYN BROCK: How about we do this. We're
24 in the process now of developing Q & A's because our
25 chairman's going to be briefing Congress in a couple

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1 days. So why don't we put that on our list of things
2 to consider for our Q's and A's and when we come up with
3 an answer we'll let you know. How about that?

4 DAVE BOWMAN: Okay.

5 KATHRYN BROCK: Sounds good.

6 DAVE BOWMAN: Okay.

7 KATHRYN BROCK: We'll get back to you one
8 way or the other on that.

9 JACK FOSTER: Thanks, Dave.

10 DAVE BOWMAN: Okay, thank you.

11 KATHRYN BROCK: Thank you. Bye.
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1 (CONFERENCE CALL INITIATED)

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3 MALE PARTICIPANT: (indiscernible) this is
4 (indiscernible).

5 JACK FOSTER: Hi, I would like to talk to
6 Rick Lentz please.

7 MALE PARTICIPANT: All right. Just a moment.
8 Who's calling?

9 JACK FOSTER: NRC Operations Center. This
10 is Jack Foster.

11 MALE PARTICIPANT: Just a moment.

12 RICK LENTZ: Lentz.

13 JACK FOSTER: Hi, Rick. This is Jack Foster
14 at the Ops Center at NRC.

15 RICK LENTZ: Hi.

16 JACK FOSTER: I have a couple of guys here
17 that are starting to do the calculations. And we wanted
18 to verify the data that you gave us associated with the,
19 7:15 this morning. So I will let them take over.

20 RICK LENTZ: If you guys give me about ten
21 minutes, I will have some new data that's just popping
22 up on our screen and I can call you back.

23 JACK FOSTER: Awesome. That would be great.

24 RICK LENTZ: I have 301-816-5419.

25 JACK FOSTER: Yes, sir.

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1 RICK LENTZ: All right. I'll give you a
2 call.

3 JACK FOSTER: Thanks.

4 RICK LENTZ: Yes, bye.
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24 (CONFERENCE CALL INITIATED)

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1 KATHRYN BROCK: NRC Ops Center. Hello.

2 NATE RUSSO: Hello is this Kathy?

3 KATHRYN BROCK: Yes, hey.

4 NATE RUSSO: Hi, it's Nate Russo again.

5 KATHRYN BROCK: Hi.

6 NATE RUSSO: We were just wondering is there,
7 should we be sending our e-mails to PMT02.hoc@nrc.gov.

8 KATHRYN BROCK: Yes, what is it, PMT02
9 something.

10 MALE PARTICIPANT: Hold on just a second,
11 Nick, Nate sorry.

12 NATE RUSSO: Okay.

13 KATHRYN BROCK: We just got off the phone
14 with the Navy and we got some more air sample data.
15 So we're going to start plugging along with that.

16 NATE RUSSO: Okay. Yes, our people have
17 been talking to the Navy as well.

18 KATHRYN BROCK: You know what, we've got
19 something that was found on a (indiscernible, possibly
20 drug) report today that shows a plot of horrendous doses
21 hitting the United States. And it has NRC letterhead
22 on it.

23 Now we didn't do it. You guys, have you
24 guys put anything out that somebody could have contorted
25 into an NRC document?

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1 MALE PARTICIPANT: If you want to see it,
2 it's at www.japan.org and it kind of, our OPA public
3 affairs people are kind of jumping around going who put
4 this out? You know, without us knowing.

5 NATE RUSSO: .japan.org.

6 KATHRYN BROCK: Yes. So just so you know,
7 we didn't do that.

8 NATE RUSSO: I don't doubt it.

9 MALE PARTICIPANT: It shows the plume
10 starting in Japan on the, you know, on the eastern, western
11 side of the Pacific and basically going all the way to
12 Wichita, Kansas, you know.

13 KATHRYN BROCK: And it shows times frames.
14 Like it will be two hours, what is it?

15 MALE PARTICIPANT: A couple hour time frame.

16 KATHRYN BROCK: So they'll have to get that
17 taken down. But it would nice if we could make beautiful
18 plots like that. We can't. All right. Do you guys have
19 the website yet or the e-mail address? What do you think
20 it is? PMT02?

21 MALE PARTICIPANT: Yes, capital P, capital
22 M, T02, space hoc@nrc.gov.

23 KATHRYN BROCK: There's no space in it.
24 Is it a dot or an underscore? I'm sorry, Nate. What
25 do you have for us?

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1 NATE RUSSO: PMT02.hoc@nrc.gov.

2 KATHRYN BROCK: I think that's it.

3 MALE PARTICIPANT: Give that a try.

4 KATHRYN BROCK: Give it a try and if we don't
5 get it we'll, what are you sending us?

6 NATE RUSSO: It's some questions for --

7 KATHRYN BROCK: For whoever.

8 NATE RUSSO: -- that we were trying to send
9 over.

10 KATHRYN BROCK: All right. Thank you.

11 NATE RUSSO: Okay.

12 KATHRYN BROCK: Thank you, sorry about that.

13 Bye.

14 NATE RUSSO: Yes, no problem. Bye.

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22 (CONFERENCE CALL INITIATED)

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24 JACK FOSTER: NRC.

25 MALE PARTICIPANT: Hi, this is the Ops

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1 (phonetic) officer. Is there a Mr. Foster over there?

2 JACK FOSTER: There is.

3 MALE PARTICIPANT: Okay, Jack Foster?

4 JACK FOSTER: Yes, that would be me.

5 MALE PARTICIPANT: Okay, I've got somebody

6 from Naval reactors who wants to talk to you. I'm going

7 to hang up this line and then transfer him over to you.

8 JACK FOSTER: Okay, thank you very much.

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21 (CONFERENCE CALL INITIATED)

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23 JACK FOSTER: Hey, Rick.

24 RICK LENTZ: Yes.

25 JACK FOSTER: Jack Foster. I've got Kathryn

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1 Brock and a host of others here. So give us all the
2 information you've got.

3 RICK LENTZ: Yes, okay. Are you ready to
4 record because I have time, lat, long and values.

5 JACK FOSTER: Okay.

6 KATHRYN BROCK: We'll make a chart. Let's
7 do it.

8 RICK LENTZ: Okay. And one data point I'm
9 going to validate and I'll point that out when I get
10 there. All right. So the first one I have here is at
11 05:30 Zulu. And that was at 38-26 North.

12 KATHRYN BROCK: Wait, 38?

13 RICK LENTZ: -26 north and 142-29.7 east.
14 So that's the location. And it was a portable air sample
15 reading of 3×10^{-9} microcuries per milliliter.

16 JACK FOSTER: Say that again, Rick.

17 RICK LENTZ: 3×10^{-9} microcuries per
18 milliliter.

19 KATHRYN BROCK: All right.

20 RICK LENTZ: Got that one?

21 JACK FOSTER: Yes.

22 RICK LENTZ: All right. Second data point,
23 07:30 Zulu and it was taken at 38-23 North and 142-36
24 East. And it was a value of 1.25×10^{-8} microcuries per
25 milliliter. That data point I'm getting validated

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1 because that is an order of magnitude higher than what
2 we've seen elsewhere.

3 All right. Next data point. Taken at 09:30
4 Zulu. Location is 38-31.7 North and 143-33.3 East. The
5 value is 2×10^{-9} microcuries per milliliter.

6 JACK FOSTER: Can you repeat that? It was
7 09:30.

8 RICK LENTZ: Yes, 09:30 Zulu. Taken at
9 38-31.7 North and 143-33.3 East. And the value is 2
10 $\times 10^{-9}$ microcuries per milliliter. All right.

11 The next data point, also taken at 09:30
12 Zulu, was a direct gamma reading. So roughly taken at
13 waist level with a gamma probe. And that was 0.3 millirem
14 per hour.

15 KATHRYN BROCK: Okay. We just got off the
16 phone with the Ronald Reagan.

17 RICK LENTZ: Yes.

18 KATHRYN BROCK: And the numbers are about
19 the same, but they're not the same.

20 RICK LENTZ: I'm sorry. You got off the
21 phone with the Ronald Reagan you said?

22 KATHRYN BROCK: It was somebody from the
23 Ronald Reagan.

24 RICK LENTZ: The aircraft carrier?

25 KATHRYN BROCK: Yes.

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1 RICK LENTZ: Okay. I didn't realize they
2 were calling in to the NRC.

3 (Crosstalk)

4 RICK LENTZ: That would be Mr. Troutman
5 (phonetic).

6 JACK FOSTER: Yes, Naval Reactors.

7 RICK LENTZ: Yes, he works at Naval Reactors.
8 He's not on the carrier.

9 JACK FOSTER: That's what I figured. Okay.
10 We got a report of a --

11 KATHRYN BROCK: But it says where the
12 readings came from.

13 JACK FOSTER: Yes, we got a report that they
14 had a sky shine above the Ronald Reagan of 0.6 millirem
15 per hour.

16 RICK LENTZ: Yes, I'm giving you guys the
17 history. That's further on down the line here.

18 JACK FOSTER: Okay. We're getting to it.
19 Okay. We're sorry to interrupt.

20 KATHRYN BROCK: Sorry.

21 RICK LENTZ: No problem. All right. Next
22 datapoint and unfortunately it's not in temporal sequence
23 here, but it was 05:30 Zulu, taken at 38-26 North and
24 142-29.7 East and the value is 3×10^{-9} microcuries per
25 milliliters.

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1 KATHRYN BROCK: Okay.

2 RICK LENTZ: Next data point taken at 07:30
3 Zulu. Taken at 38-23 North and 142-36 East and that
4 one is also 1.25×10^{-8} . So wherever the ship was, they
5 must have been, I'm guessing they must be right centerline.

6 KATHRYN BROCK: So I'm, so you're saying
7 there were two measurements taken at both those times
8 that were the same?

9 RICK LENTZ: Yes, there's two separate 1.25
10 $\times 10^{-8}$ microcuries per milliliter data points.

11 KATHRYN BROCK: Okay, great.

12 RICK LENTZ: Okay. Next data point, also
13 portable air sample, was taken at 09:30 Zulu. Location
14 was 38-31.7 North and 143-33.3 East. And the value is
15 2×10^{-9} microcuries per milliliter.

16 KATHRYN BROCK: Okay.

17 RICK LENTZ: Also at that time, 09:30 Zulu,
18 there was a direct gamma reading of .3 millirem per hour.

19 JACK FOSTER: Same location.

20 RICK LENTZ: Yes, same location. Next data
21 point was at 08:45 Zulu. Location is 38-29.8 North and
22 143-10.7 East. And it has a range of .6 to .9 millirem
23 per hour. So that's the direct gamma reading.

24 KATHRYN BROCK: Okay.

25 RICK LENTZ: And then at 09:45 Zulu, at

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1 location 38-32.3 North and 143-40.8 East we have a direct
2 gamma reading of .7 millirem per hour.

3 KATHRYN BROCK: Okay.

4 RICK LENTZ: I have a 10:00 Zulu --

5 JACK FOSTER: Can we go back and repeat that
6 one?

7 RICK LENTZ: Sure, the 9:45 data point?

8 JACK FOSTER: Yes.

9 RICK LENTZ: Okay, 09:45 Zulu, at location
10 38-32.3 North and 143-40.8 East. And it was 0.7 millirem
11 per hour gamma. So that's all in the same range as the
12 previous data point.

13 JACK FOSTER: Yes, thank you.

14 RICK LENTZ: Yes. Then we have a 10:00 Zulu
15 data point taken at 38-37.9 North and 143-42 East and
16 I have .6 millirem per hour gamma. And those are the
17 data points I have right now.

18 KATHRYN BROCK: Fantastic. Thank you.

19 RICK LENTZ: And we have passed the same
20 data on to NARAC so they can use that to refine their
21 plots.

22 KATHRYN BROCK: Okay. And so what we had
23 heard on our last call was, because the lat lines don't
24 mean anything to me in my little brain, but that it's
25 about 100 nautical miles from the site?

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1 RICK LENTZ: That was the report. And
2 certainly the initial finder (indiscernible) activity
3 they were just outside the 100 mile radius from the site.

4 And we were told they were centerline. We're working
5 on plotting all the lats and longs on our end as well
6 just to get a better visual of what we're talking about.

7 JACK FOSTER: The 9:30 and the 10 o'clock
8 one, do you have a rough idea about how far away that
9 was from --

10 RICK LENTZ: 9:30, 10 o'clock, I don't.
11 When I get some distances I will pass that along to you
12 all.

13 JACK FOSTER: Excuse me, 9:45, yes, 10
14 o'clock. Okay. I --

15 RICK LENTZ: You can plot all this out I
16 think in Google Maps if you want to.

17 KATHRYN BROCK: Well we need our
18 (indiscernible, possibly DAS) guy to come in here. All
19 right. Hey, we appreciate it.

20 RICK LENTZ: No problem.

21 KATHRYN BROCK: Thanks.

22 RICK LENTZ: Hey, by the way, do you guys
23 have my direct line if you need to get a hold of me?

24 JACK FOSTER: That would be 5993.

25 RICK LENTZ: That would be it.

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1 JACK FOSTER: Okay.
2 KATHRYN BROCK: Thanks.
3 RICK LENTZ: Take care.
4 JACK FOSTER: Thank you, Rick.
5 RICK LENTZ: Bye.
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16 (CONFERENCE CALL INITIATED)
17 0%A!R85615365094
18 JACK FOSTER: NRC Operations Center, Jack
19 Foster.
20 STEPHANIE BUSH-GODDARD: Jack Foster.
21 Stephanie Bush-Goddard.
22 JACK FOSTER: How are you doing?
23 STEPHANIE BUSH-GODDARD: How are you?
24 Fine.
25 JACK FOSTER: Are you busy?

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1 STEPHANIE BUSH-GODDARD: Actually I am in

2 (b)(6)

3 JACK FOSTER: All right. Having fun.

4 STEPHANIE BUSH-GODDARD: So do you all
5 (indiscernible, possibly need) somebody?

6 JACK FOSTER: Well it looks like you're not
7 able to come. When are you coming back?

8 STEPHANIE BUSH-GODDARD: I'm coming, well
9 my plane was supposed to come back next Sunday.

10 JACK FOSTER: I'll tell you what, I think
11 where we're at right now we think that we were needing
12 some RASCAL people.

13 STEPHANIE BUSH-GODDARD: You need some
14 RASCAL people, okay.

15 JACK FOSTER: But I think that what we're
16 going to do is we were looking over the list and it looked
17 pretty thin. And what we're going to do, the guys here
18 in the Ops Center are going to look into the fuel cycle
19 side of it by the people that know RASCAL because there's
20 some folks in, you know, (indiscernible, possibly FISME)
21 and NMSS that actually have RASCAL training and experience
22 but they just don't have it on the reactor side.

23 STEPHANIE BUSH-GODDARD: Okay, yes, because,
24 you know, Tony Huffert I know he's been (indiscernible,
25 possibly coming) there. You got him?

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1 JACK FOSTER: Tony was here Friday night
2 with us.

3 STEPHANIE BUSH-GODDARD: Okay. What about
4 Elijah Dickson.

5 JACK FOSTER: That's another one we've got
6 on the list. Is he on the CMT side or the --

7 STEPHANIE BUSH-GODDARD: He's on the
8 Protective Measures Team.

9 JACK FOSTER: Okay.

10 STEPHANIE BUSH-GODDARD: And he can come
11 in. He's a graduate fellow but he actually is working,
12 I mean he's going to school, but he can, you guys can
13 call him in. And I know some novice RASCAL users that
14 could, that have not had exercise in, basically all of
15 my branch has to have the RASCAL training. But they
16 have not had an exercise in a dose assessor. So--

17 JACK FOSTER: And that might be able to work
18 too because we could pair them up with someone, you know,
19 just --

20 STEPHANIE BUSH-GODDARD: You have to pair
21 them up, yes.

22 JACK FOSTER: Okay. Throw out a few names
23 of some of the senior folks that you think would be a
24 pretty good match and we'll pass that information along.

25 STEPHANIE BUSH-GODDARD: Okay. How long

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1 have you been there, Jack?

2 JACK FOSTER: I just got here at 7:30. A
3 couple of my guys from my branch have been in and out.
4 Actually (indiscernible, possibly Nema) was on yesterday
5 and Nema will be on to relieve me today.

6 STEPHANIE BUSH-GODDARD: Okay and you know
7 Tony, he loves this stuff. You know if he was there
8 Friday he can come back.

9 JACK FOSTER: Okay and I think he's actually
10 scheduled.

11 STEPHANIE BUSH-GODDARD: Especially for
12 tomorrow.

13 JACK FOSTER: Yes, I think he is.

14 STEPHANIE BUSH-GODDARD: Okay.

15 JACK FOSTER: Okay. Well that's great. I
16 appreciate you calling. That gives us some ideas. Above
17 Elijah is there anyone else? What's Elijah's last name
18 again? What's Elijah's last name again? Are you still
19 there?

20 KATHRYN BROCK: Elijah's not, he's on the
21 rotation in University.

22 JACK FOSTER: Yes, but I just, Stephanie
23 said you would call him and he would be coming. Are
24 you still there? I think she was on her cell.

25

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3 KATHRYN BROCK: NRC.

4 STEPHANIE BUSH-GODDARD: Yes, Jack Foster,
5 please.

6 JACK FOSTER: Yes, I'm here.

7 STEPHANIE BUSH-GODDARD: Jack, okay. We
8 kind of hung up. But I gave you all the information
9 that I knew. But I did want to just kind of finalize
10 (indiscernible, possibly situations) with you.

11 JACK FOSTER: Okay. Well we appreciate it,
12 Stephanie. You have a good time.

13 STEPHANIE BUSH-GODDARD: Okay. Did you
14 want me to call the people in my branch or are you going
15 to take it from there?

16 JACK FOSTER: We'll take it from here. We'll
17 do it as needed. Okay.

18 STEPHANIE BUSH-GODDARD: Okay, then.
19 Thank you. And I'll keep on just keep touching bases
20 in case you really, really get real, real, real low.

21 JACK FOSTER: Yes, there's some, it's pretty
22 exciting kind of, you know, it's not low-keyed here.
23 We're actually jumping around doing a lot of stuff.

24 STEPHANIE BUSH-GODDARD: Yes, I'm sure you
25 all are. I'm sure you all are.

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1 JACK FOSTER: Data is coming in. Some of
2 it we don't know whether it's right or wrong and it's
3 coming in from different directions too. So I do
4 appreciate the call, Stephanie.

5 STEPHANIE BUSH-GODDARD: Okay then, Jack.
6 Take care.

7 JACK FOSTER: Have a good vacation.

8 STEPHANIE BUSH-GODDARD: Okay. Thank you.

9 JACK FOSTER: Bye bye.

10 STEPHANIE BUSH-GODDARD: Bye bye.
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1 (CONFERENCE CALL INITIATED)

2 0%ASKW#L15365094

3 BRUCE WATSON: Hi, this is the NRC Protective
4 Measures Team in the Operations Center.

5 NATE RUSSO: Hi, it's Nate Russo from the
6 NIT, from the DOE NIT.

7 BRUCE WATSON: It's who?

8 NATE RUSSO: Nate Russo from the DOE NIT.

9 JACK FOSTER: How are you doing Nate? This
10 is Jack Foster with Bruce here.

11 NATE RUSSO: Hi, Jack. Great.

12 JACK FOSTER: How can I help you?

13 NATE RUSSO: We just received word that Marty
14 Virgilio. I'm sorry.

15 BRUCE WATSON: Marty Virgilio.

16 NATE RUSSO: Virgilio, thank you, has
17 (indiscernible, possibly briefed) a calculation that
18 was done using the data from the Reagan.

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

25 But you have to realize one thing is that

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1 what we're doing with that information is we're looking
2 back in time 20 hours to make a prediction that at that
3 time there was probably a venting. Do you understand
4 what I'm saying? One hundred miles out, wind traveling
5 five miles an hour --

6 BRUCE WATSON: Would take about 20 plus hours
7 to get there. So we're looking at whatever happened
8 yesterday we're seeing it the next day 100 miles plus
9 away.

10 JACK FOSTER: We didn't actually take a
11 source term and crank it into RASCAL and come out with
12 those numbers. But it's about --

13 BRUCE WATSON: Our model goes out to 50 miles
14 and it is possible you could have had a venting off a
15 (indiscernible, possibly pump) release that is now reached
16 that point.

17 NATE RUSSO: Okay.

18 BRUCE WATSON: Okay. It's continuous
19 release probably. But you could have a pump out there
20 that's measurable.

21 JACK FOSTER: Does that kind of answer your
22 question, Nate?

23 NATE RUSSO: Yes, so it was just a rough
24 calculation?

25 BRUCE WATSON: Yes and to follow up to that

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1 we, the Navy did take some air samples and we requested
2 that they do some isotopics on it to see really what's
3 in what they collected. And that will give us a better
4 idea of, you know, what may have caused the cloud to
5 be there.

6 JACK FOSTER: Some of the ingredients. You
7 can't tell on just a regular air sampling.

8 BRUCE WATSON: Yes and we might be able to
9 tell the age of it if we do get some isotopics especially
10 with knowing that some of the longer lived noble gases
11 would still be in the mix what the (indiscernible, possibly
12 rates) of the short ones would be.

13 NATE RUSSO: Okay.

14 BRUCE WATSON: So (indiscernible, possibly
15 this types) our rationale.

16 NATE RUSSO: Okay. So one of the things
17 we were wondering is if somebody from your team could
18 call in to our CM (phonetic) bridge line or if they've
19 been in contact with anyone from NARAC or CM to discuss
20 sort of the estimates that you guys were using because
21 right now the model that we're running has a quarter
22 of magnitude difference.

23 BRUCE WATSON: Are you low or high?

24 NATE RUSSO: High.

25 BRUCE WATSON: High, yes. We've been kind

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1 of, not knowing what the actual release conditions were
2 and the actual configuration of the releases, we've had
3 the same issue with being a few factors high or a few
4 factors low based on what our assumptions are. So we're
5 having the same kind of a problem.

6 So we're continuing to look at that. We've
7 called in some additional people to do some additional
8 dose modeling here. We did request from you guys, I
9 guess it was earlier this morning, that NARAC provide
10 us with some up to date meteorology for the site in a
11 forecast. I don't know if we got that or not.

12 No, we don't have MET (phonetic) data yet.
13 So our MET data ended at midnight. So if we could stuff
14 from midnight on we would appreciate it.

15 NATE RUSSO: Okay, can you hang on for one
16 second while I (indiscernible, possibly compare) with
17 someone that's in here?

18 BRUCE WATSON: Sure.
19

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1 (CONFERENCE CALL INITIATED)

2 0%A\$SUK_15365094

3 NATE RUSSO: Okay, so is it possible for
4 one of you to call into the CM bridge line (indiscernible)?

5 JACK FOSTER: Yes, CM bridge line. What
6 time is it going to be and what's the number?

7 NATE RUSSO: It's an open bridge line right
8 now. We have the, our CM (indiscernible, possibly side)
9 to figure out on it. The number and NARAC on it too,
10 has a representative on it too, the number is 877-336-1274.

11 The access code is (b)(6)

12 JACK FOSTER: Okay. Let me repeat it back
13 to you. 877-336-1274, access code (b)(6)

14 NATE RUSSO: (b)(6)

15 JACK FOSTER: (b)(6)

16 NATE RUSSO: Yes.

17 JACK FOSTER: Okay. (b)(6) And you want
18 us to dial up there immediately to talk on that?

19 NATE RUSSO: I believe they're on it right
20 now.

21 JACK FOSTER: Okay.

22 NATE RUSSO: So, they're on the CM bridge
23 line right now. Yes, they're on the bridge line. The
24 (indiscernible, possibly bridge) is open right now.

25 JACK FOSTER: Okay and this is primarily

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1 dealing with the calculations or the logic behind the
2 Ronald Reagan information versus what the source may
3 be?

4 NATE RUSSO: Right, exactly.

5 JACK FOSTER: Okay.. We'll dial up there
6 immediately. Okay.

7 NATERUSSO: Okay, yes. Thank you very much.

8 JACK FOSTER: Thanks, Nate.
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3 JACK FOSTER: Hi, Jack Foster, NRC.

4 BRUCE WATSON: Bruce Watson, NRC. We're
5 at the Operations Center at headquarters.

6 FEMALE PARTICIPANT: I'm sorry can you
7 repeat that guys one at a time. Go ahead.

8 JACK FOSTER: Jack Foster, NRC at the
9 Operations Center.

10 BRUCE WATSON: And this is Bruce Watson,
11 NRC.

12 FEMALE PARTICIPANT: Thank you guys. Hold
13 on just one moment. Dan, are you getting a hold of Lucas
14 or did you want me to get a hold of him.

15 DAN BLUMENTHAL: I sent him an e-mail. But
16 I don't know how we'll, are you on Lucas? Yes, give
17 him a call.

18 FEMALE PARTICIPANT: Okay.

19 DAN BLUMENTHAL: Okay. We have NARAC and
20 we've got the CM (indiscernible, possibly home team)
21 on line. This is Dan Blumenthal, DOE. And I don't know,
22 is anyone from the NIT on the line? Okay, no.

23 So I'll just turn it over to you guys at NRC and
24 NARAC when (indiscernible) source term calculations.
25 Do you want to start, NRC?

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1 MALE PARTICIPANT: Hold on just one second
2 okay please.
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3 BRUCE WATSON: Yes, this is Bruce Watson
4 at the Protective Measures Team at the NRC. We looked
5 at the data that we received from the Naval Reactors
6 and we had it confirmed by another individual from Naval
7 Reactors after our general call with them.

8 And we looked at the data. We compared it
9 with the, another piece of data we had from the IAEA
10 which had some site dose rates from yesterday which showed
11 somewhere possibly up to 100 millirem at the site boundary.

12 We think it was on the east side of the plant because
13 the actual fixed monitors on the west side of the plant
14 weren't showing much of an increase.

15 In looking at the time frame from what we
16 understand the measurements at the --

17 MALE PARTICIPANT: Are you Lucas?

18 LUCAS: Yes.

19 BRUCE WATSON: -- in the Reagan's position
20 which was approximately 100 or more miles away down wind,
21 pretty much corresponded with some of the times of the
22 vents we had heard about yesterday of probably the Unit
23 1 reactor. And based on the wind speeds that we were
24 seeing in the data we had gotten from NARAC anywhere
25 from three to five miles an hour, maybe a little higher

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1 at times.

2 But principally if you went off shore 100
3 miles it would take about 20 to 24 hours for the vent
4 which we consider probably some kind of (indiscernible,
5 possibly puff) and release to arrive in that vicinity
6 at that time. So we're, you know, what they were measuring
7 this morning was probably something that was released
8 yesterday.

9 And so based on that and what we believe
10 the situation in the Unit 1 reactor was is that this
11 was probably longer lived than noble gases. It appeared
12 to be a plume in the overhead, either a large puff from
13 the vent. And so that's what we, we looked at that.

14 We did request that the Navy perform some
15 isotopic analysis of the samples they took so we can
16 either look at, compare some of the half lives and see
17 what the age of the material is and also look at the
18 nuclides and make some assessment of whether there was
19 any core damage at that time or not. So that's where
20 we are.

21 We're still waiting on the Navy to get back
22 to us with the isotopics. This morning they told us
23 it would take approximately six or more hours to get
24 that isotopic analysis done. And they were in the process
25 of flying the samples, I guess, to the base, their air

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1 base to get the (indiscernible, possibly jelly) done.

2 MALE PARTICIPANT: To interrupt real quick.

3 They should be arriving on base right now. It will
4 take 10, 20 minutes to count. So we should have results
5 inside an hour or so.

6 BRUCE WATSON: Okay. That's consistent
7 with what they told us this morning. So we also looked
8 at the, I guess we call it the shoe contamination of
9 the one individual, one of our Naval guys I guess set
10 foot on one of the Japanese ships and we made the assessment
11 that was probably independent of this plume or this puff
12 mainly because we don't know where the Japanese vessel
13 was during the last 24 to 48 hours.

14 In addition to that we had a report from
15 the Reagan through NR, Naval Reactors, that I guess they
16 were detecting some contamination on some of the Japanese
17 helicopters that were coming in for refueling. And not
18 knowing where they have been and they may have been even
19 engaged in plume monitoring for all we know over the
20 site.

21 MALE PARTICIPANT: At NARAC we weren't using
22 those data points either as modeling.

23 BRUCE WATSON: We just don't know how to
24 correlate that to the Reagan data other than we just
25 counted it as something that's probably independent.

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1 MALE PARTICIPANT: Agreed.

2 BRUCE WATSON: So that's the basis for our
3 assumptions and our assessment. We'll know a whole lot
4 more when we get the jelly counts and the isotope analysis.

5 And I believe the Reagan has moved to a slightly different
6 position so they are no longer measuring the cloud.
7 We heard they were moving to a different spot.

8 MALE PARTICIPANT: Yes, they are trying to
9 steam out of the plume. And I think the last report
10 is they are outside --

11 BRUCE WATSON: Unfortunately, and that's
12 the other thing we need from NARAC, we have not had any
13 MET data since last night of the site. So we need that
14 as soon as you can get it to us and a forecast for today.

15 We're trying to focus on Unit 1 and Unit
16 3 which apparently have had some serious water level
17 indications with the fuel. And so we need that as soon
18 as we can get that e-mailed to us. And we'll look at
19 the Reagan thing when we get the data in for the isotopics.

20 We have called in additional resources to
21 help with doing some of the dose modeling and some of
22 the data, receiving of the data so we have a better handle
23 how to manage it. That's pretty much where we are.

24 STEVE HOMANN: Question on the, this is Steve
25 Homann, NARAC, question on the source they used to

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1 correlate the data, Reagan. Do you remember, how much
2 activity do they assume in the long lived noble gas puff,
3 activity-wise to match the data?

4 BRUCE WATSON: We didn't do any real
5 calculations. Our modeling goes out to 50 miles. And
6 we came to the conclusion that, yes, you could have a,
7 in looking at some of the other models we had with, possibly
8 with some of the small (indiscernible, possibly gap)
9 releases you could have some significant residual activity
10 that would have been, could have been in a puff release
11 from a vent.

12 We don't know how long these things had been
13 built up in there. We don't know what the concentrations,
14 the original concentration was. We have no idea what
15 the release rate was. We have no idea what the, how
16 long they vented. And so, you know, that's strictly
17 our best guess as to how it got there.

18 STEVE HOMANN: So it wouldn't be
19 unreasonable, you know, to talk about, you know,
20 (indiscernible, possibly megacurie) quantity of the xenon
21 133. Would that be reasonable for you?

22 BRUCE WATSON: We're hoping that's all it
23 is.

24 STEVE HOMANN: No, I'm just saying those
25 are kind of numbers, that activity release, that was

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1 the order of megacuries.

2 BRUCE WATSON: Yes, we could probably do
3 that. We didn't see the real relevance of it at this
4 point when we're looking at possible core melt on the
5 other two units.

6 STEVE HOMANN: But that wouldn't be
7 unreasonable? That's all I'm asking.

8 BRUCE WATSON: I'm sorry I didn't hear.

9 STEVE HOMANN: I would just, well we're just,
10 you know, if you had a vent and it was built up a release
11 of noble gases of the order of a megacurie or so would
12 not be an unreasonable assumption. That's all I was
13 asking.

14 BRUCE WATSON: I guess not. You know, it
15 could be some significant activity. I mean we don't
16 how long it built up in the --

17 STEVE HOMANN: That seems to correlate with
18 the dose rates they're measuring at Reagan. I'm just
19 trying to check that with you. Thanks.

20 BRUCE WATSON: Yes.

21 FEMALE PARTICIPANT: Hey Bruce or Jack, can
22 I get a number from you guys in case we need to contact
23 you?

24 BRUCE WATSON: Yes, area code 301-816-5419.

25 FEMALE PARTICIPANT: 5419, thank you.

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1 BRUCE WATSON: Okay, sure. Any other
2 questions?

3 DAN BLUMENTHAL: Steve or John or Bill, do
4 you have any questions from NARAC?

5 STEVE HOMANN: No, that was, thank you for
6 the numbers.

7 DAN BLUMENTHAL: Lucas, do you have any
8 questions?

9 LUCAS: When the first plots are going to
10 come out?

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3 MALE PARTICIPANT: Hello.

4 MALE PARTICIPANT: John, do you want to
5 answer that?

6 MALE PARTICIPANT: Is NARAC still on?

7 STEVE HOMANN: This is Steve Homann. I guess
8 John is off now.

9 MALE PARTICIPANT: Yes, this is what Lucas
10 was wondering about.

11 (Cross talk)

12 JOHN: The first run is out. And I just
13 sent it to the NIT just to take a look at.

14 MALE PARTICIPANT: Can you send it to us?

15 JOHN: Sorry, I didn't have your e-mail so
16 I just --

17 MALE PARTICIPANT: Can you send it to me
18 too, John.

19 JOHN: I sent it to you.

20 BRUCE WATSON: Is this your calculations
21 on the source term from the Reagan data?

22 JOHN: I'll say, one thing I will point out
23 when you look at these plots the source term that's in
24 the report is somewhat misleading because we did a scaling
25 afterwards. And we, first of all, we assumed, we took

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1 a run that had a curie per second of each of the key
2 isotopes released over 24 hours up to 48 hours time.

3 BRUCE WATSON: Are you going to send this
4 to the NRC too, please?

5 JOHN: Yes, I just, it's very preliminary
6 and the report, which is automatically generated (b)
(5)

7 (b)(5)
8
9
10
11

12 BRUCE WATSON: Yes, we understand. We just
13 don't have sufficient information to make firm
14 conclusions.

15 JOHN: (indiscernible) and we're going to
16 (indiscernible, possibly calculate) ourselves as well.

17 MALE PARTICIPANT: (b)(5)

18 (b)(5)
19

20 JOHN: It's, what it is, is basically what
21 we assumed was that we took a one curie per second source
22 over 48 hours and just tried to scale it to, and what
23 we came up with for cesium, which is our marker for the
24 particulates is 5 curies per second. And then for xenon
25 133, which is a marker for the noble gas and for comparing

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1 to dose rate measurements, we had 5 (indiscernible) per
2 second.

3 But anybody, if people have comments on the
4 plausibility of that we would appreciate it because
5 obviously the measurements are very limited. So there's
6 no way to make any definitive statement. So basically
7 what we did is we tried to get a source term that would
8 give dose rates at the distances down wind that had
9 measurements possible value.

10 So in that sense it could be conservative
11 because we don't have or it could be an under prediction.

12 It's hard to say because there's just not enough
13 measurements to confirm this. But that's sort of our
14 best first initial rough guess. So to reiterate don't,
15 we just used some marker isotopes for particulates and
16 a marker isotope for the nobles.

17 So the source terms themselves that you see
18 in the report are not going to be, I wouldn't pass those
19 on to folks because they're not the values that we actually
20 used in the model because of the way we did this calculation.

21 So I guess, Dan, you are forwarding that to Lucas.
22 Is that right?

23 DAN BLUMENTHAL: Yes, I did. It's 25
24 megabytes, Lucas.

25 LUCAS: My God.

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1 DAN BLUMENTHAL: I sent it to you though.

2 LUCAS: Okay. I'll finish (indiscernible)
3 shortly looking at it.

4 MALE PARTICIPANT: I'm just asking and I
5 guess so, Dan, should we forward that to the NRC as well
6 so they can take a look at it?

7 MALE PARTICIPANT: Yes, please do.

8 STEVE HOMANN: Okay, so is the hoo.hoc e-mail the
9 right one or is that too broad?

10 BRUCE WATSON: Would you do that one and
11 do PMT01.

12 DAN BLUMENTHAL: PMT01?

13 BRUCE WATSON: PMT02hoc.

14 DAN BLUMENTHAL: It's a 25 megabyte file
15 so if we could just send it to one place.

16 BRUCE WATSON: Okay, yes. Send it to the
17 main, the hoo.

18 JOHN: Okay, so I just want to make sure
19 that since this is so preliminary and draft that that's
20 not going to get redistributed.

21 BRUCE WATSON: We have the same agreement
22 with you as with ourselves.

23 JOHN: Sometimes you don't know who, you
24 know, if it's going to a 100 people I just don't know
25 --

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1 BRUCE WATSON: We do want you guys to expedite
2 getting us MET data if you can.

3 JOHN: Which data, the plot?

4 BRUCE WATSON: No, the MET data for the last
5 midnight and then into today and then your forecast for
6 this evening for the site. Yes, we need that.

7 MALE PARTICIPANT: And make that attention,
8 when you send it to the hoo, to make attention pmt, okay?

9 JOHN: Okay.

10 BRUCE WATSON: We'll tell them it's coming.

11 DAN BLUMENTHAL: Hey, John, you might have
12 to put it on the CM web because I think Lucas' e-mail
13 is rejecting a 25 megabyte attachment.

14 JOHN: It's rejecting it?

15 DAN BLUMENTHAL: Yes.

16 JOHN: Interesting. It's okay we can and
17 you don't want to push it out over the normal system?

18 DAN BLUMENTHAL: No, I was going to ask John
19 if he could put it in the CM web folder where you, that
20 you gave, Lucas has access to or break it into smaller
21 files.

22 JOHN: Why not just put it into the normal
23 system and so that my (indiscernible, possibly sites)
24 can see it?

25 DAN BLUMENTHAL: That's fine. Yes, we'll

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1 do that.

2 JOHN: And I know we say to limit distribution.

3 But let's face it this is the first run plot that isn't,
4 somewhat based on data. (indiscernible, possibly seventh
5 fleet) what the reason why we're using this is we need
6 to know roughly how far out our ships need to be.

7 MALE PARTICIPANT: Where to be, yes. No,
8 absolutely.

9 JOHN: So I can't promise, won't promise
10 that, you know, at least within the Navy that it's not
11 going to circulate.

12 DAN BLUMENTHAL: And we should look at it
13 amongst ourselves for a while to see if it's just admiral
14 worthy yet. That's all.

15 MALE PARTICIPANT: We agree.

16 DAN BLUMENTHAL: So if you can put it in
17 that folder in CM web, John. And make sure the specific
18 Protective Measures Teams both have access to that book.

19 BRUCE WATSON: Okay, with all the caveats
20 you just made about this initial plot and the source
21 term being off, how long do you think before you refine
22 it? We should have isotopic data relatively soon. But
23 that didn't seem to influence necessarily your refined
24 plot on source term.

25 MALE PARTICIPANT: Are you asking us

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1 questions, NRC?

2 BRUCE WATSON: No, I was asking NARAC a
3 question.

4 DAN BLUMENTHAL: Well actually you're asking
5 everyone because I mean, you have to look at it, NRC
6 has to look at it and then if we have to adjust anything
7 than NARAC has to do it. So the first step is NARAC
8 post it on the team folders you have access to already,
9 Lucas..

10 And do you guys at NRC have CM web accounts?

11 FEMALE PARTICIPANT: No.

12 DAN BLUMENTHAL: Or does one of you have
13 a CM web account.

14 FEMALE PARTICIPANT: No, I don't know. I've
15 never heard of it.

16 JACK FOSTER: I don't believe so.

17 DAN BLUMENTHAL: Okay. Protective
18 Measures Team should have access to CM web.

19 FEMALE PARTICIPANT: All right. We'll
20 double check that. We're drawing a blank.

21 DAN BLUMENTHAL: Well you would know if you
22 had accounts. Do you guys know we post NARAC products
23 and IMAAC products?

24 FEMALE PARTICIPANT: Yes, I think they do.

25 DAN BLUMENTHAL: Maybe you have access to

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1 IMAAC web. It's all the same.

2 MALE PARTICIPANT: Or NARAC web.

3 DAN BLUMENTHAL: Okay, so NARAC will make
4 sure that you guys have permissions to use the folders
5 that they put this in.

6 BRUCE WATSON: You're going to send this
7 where it's located in the folders or --

8 DAN BLUMENTHAL: No, you get an automated
9 e-mail and it tells you where.

10 BRUCE WATSON: Okay, sounds great.

11 DAN BLUMENTHAL: Okay, NARAC, are you still
12 on?

13 STEVE HOMANN: Yes, I'm just sending an
14 e-mail to the NRC right now. And we're checking on the
15 NRC, you folks that have CM web accounts. So we'll look
16 to see who is there already.

17 MALE PARTICIPANT: Anything else?

18 DAN BLUMENTHAL: This is Dan. I didn't have
19 anything else. So John will get it out to you guys.

20 MALE PARTICIPANT: Okay. It sounds like
21 we're hanging up. Talk to you guys later then.

22 DAN BLUMENTHAL: Hey, Lucas.

23 LUCAS: Yes.

24 DAN BLUMENTHAL: I wasn't on the call when
25 I heard you said something about isotopic measurements

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1 but I didn't hear.
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18 (CONFERENCE CALL INITIATED)

19 0%A6#X2L15365094

20 ROBERT: (indiscernible, Reachback) this
21 is Robert.

22 JOHN TAPPERT: Goodafternoon. This is John
23 Tappert with the Nuclear Regulatory Commission.

24 ROBERT: Yes.

25 JOHN TAPPERT: I'm trying to get a hold of

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1 John Hendrickson.

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

4 JOHN TAPPERT: Okay. 3445?

5 ROBERT: Yes.

6 JOHN TAPPERT: Okay, thank you.

7 ROBERT: All right. You're welcome.

8 MAGNUS: (indiscernible, possibly DTA
9 Reachback) this is Magnus (phonetic).

10 JOHN TAPPERT: Yes, good afternoon. This
11 is John Tappert with the Nuclear Regulatory Commission.

12 MAGNUS: Okay.

13 JOHN TAPPERT: I was trying to get a hold
14 of John Hendrickson.

15 MAGNUS: John Hendrickson. Would that be
16 the Lieutenant Commander?

17 JOHN TAPPERT: I couldn't tell you that.
18 This was just given to me by one of my colleagues. And
19 this is reference to the Japanese nuclear power plant
20 event.

21 MAGNUS: Yes this is DTA Reachback. Can
22 you hold on one second?

23 JOHN TAPPERT: Sure.

24 MAGNUS: Sir?

25 JOHN TAPPERT: Yes.

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1 MAGNUS: You would have to go through the
2 Ops Center. Let me give you that phone number.

3 JOHN TAPPERT: Okay.

4 MAGNUS: It's 703-767-2000.

5 JOHN TAPPERT: 2000. Okay. Thank you.

6 MAGNUS: Thank you.

7 MALE PARTICIPANT: (indiscernible). May
8 I help you?

9 JOHN TAPPERT: Yes, good afternoon. This
10 is John Tappert with the Nuclear Regulatory Commission.

11 MALE PARTICIPANT: Yes, what's going on?

12 JOHN TAPPERT: Not too much. I'm trying
13 to locate a Mr. John Hendrickson.

14 MALE PARTICIPANT: John Hendrickson?

15 JOHN TAPPERT: Yes.

16 MALE PARTICIPANT: He's on the Ronald Reagan
17 right now.

18 JOHN TAPPERT: He's on the Ronald Reagan.
19 Okay.

20 MALE PARTICIPANT: He's with the Seventh
21 (phonetic) Fleet.

22 JOHN TAPPERT: All right. Let me just pose
23 the question. Maybe you can help me. I was just referred,
24 I was given his name and this number by one of my colleagues
25 who said that you guys had done some dose, radiation

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1 dose projection modeling for the Japanese power plant
2 event out there.

3 MALE PARTICIPANT: We did it for Seventh
4 Fleet who is doing operations off the coast of Japan.

5 JOHN TAPPERT: Yes, is that something that
6 you could share with us?

7 MALE PARTICIPANT: That I'm not sure because
8 it was a Navy request.

9 JOHN TAPPERT: Okay. We're on the same team.

10 MALE PARTICIPANT: I know, I know. But,
11 you know, when we, they, Commander Hendrickson
12 specifically asked that it be kept within the confines
13 of Seventh Fleet. And so what I would like to do would
14 be to contact him and say hey, you know, DOE has requested
15 that new information, you know, that we modeled for you
16 be provided to them.

17 JOHN TAPPERT: Yes, we're actually the
18 Nuclear Regulatory Commission, not DOE.

19 MALE PARTICIPANT: The NRC, I'm sorry. Hold
20 on just a second. Let me bounce this off someone here
21 right next to me. She can probably give you a better
22 answer.

23 JOHN TAPPERT: Okay, super.

24 MALE PARTICIPANT: Hold on just a second.
25 I'm sorry. What was your name again?

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1 JOHN TAPPERT: John Tappert.

2 MALE PARTICIPANT: John Tappert, okay just
3 a second.

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15 (CONFERENCE CALL INITIATED)

16 0%A47GM615365094

17 DANIEL: Hello this is Daniel. How can I
18 help you?

19 JOHN TAPPERT: Hey, Daniel. This is John
20 Tappert with the Nuclear Regulatory Commission.

21 DANIEL: Yes.

22 JOHN TAPPERT: I'm responding to a call that
23 we had gotten from someone on your team, was it from,
24 what's the name?

25 MALE PARTICIPANT: Steve.

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1 DANIEL: Steve Aoki.

2 JOHN TAPPERT: Steve Aoki, yes.

3 DANIEL: What was your last name again?

4 JOHN TAPPERT: Tappert, T-A-P-P-E-R-T.

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

7 JOHN TAPPERT: Okay.

8 STEVE AOKI: Hello.

9 DANIEL: Mr. Tappert, you all are connected.

10 JOHN TAPPERT: Okay, great. Thank you. Mr.
11 Aoki?

12 STEVE AOKI: Yes.

13 JOHN TAPPERT: This is John Tappert with
14 the Nuclear Regulatory Commission.

15 STEVE AOKI: Hi.

16 JOHN TAPPERT: I guess you had some questions
17 which I probably won't be able to answer.

18 STEVE AOKI: Yes, well the basic question
19 is how are we responding to US airlines and others concerned
20 about routing aircraft through the plume or the area
21 where the plume might be. So I guess the first question
22 is have you actually set anything and are you aware of
23 any existing standards or guidance for this sort of
24 situation?

25 JOHN TAPPERT: Yes, I'm not really aware

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1 of anything. At this point, you know, it's Japanese
2 air space over there so we would expect the Japanese
3 to take any actions that would need to be taken. But
4 all the available information that we have would not
5 indicate that would be necessary.

6 STEVE AOKI: Okay. But you haven't, and
7 you're not aware of there being any sort of existing
8 standard that says don't enter air space with a
9 concentration greater than, you know, x curies per --

10 JOHN TAPPERT: No, I'm not aware of anything.
11 And the skeleton crew that we have here isn't either.

12 STEVE AOKI: Okay. I suspected
13 (indiscernible). You know, just wanted to check in and
14 make sure.

15 JOHN TAPPERT: Sure. We're all kind of what
16 iffing (phonetic) a little bit.

17 STEVE AOKI: Okay.

18 JOHN TAPPERT: All right.

19 STEVE AOKI: I think that's it then. We're
20 probably going to suggest something like, you know, again
21 based on plume modeling that we've gone over with you
22 that the (indiscernible, height) the stuff coming out
23 of the plant is probably not going to go above 15,000
24 feet. And therefore for the altitude at which commercial
25 flights fly there really isn't an issue.

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1 JOHN TAPPERT: (indiscernible, possibly
2 Any challenge) to that.

3 STEVE AOKI: But they should stay above,
4 you know, some minimum altitude and perhaps more than,
5 you know, 100 miles up off the coast. And there should
6 not be a problem.

7 JOHN TAPPERT: And I don't know if OSHA has
8 any sort of radiation protection standards for air crews
9 or not. I think they do some monitoring, don't they?

10 STEVE AOKI: Yes, well they do because, you
11 know, you're up there you get radiation, right?

12 JOHN TAPPERT: Right.

13 STEVE AOKI: I mean clearly it doesn't matter
14 if you're getting an additional dose that's a fraction
15 of what you're getting anyway by being in an airplane.

16 JOHN TAPPERT: Okay.

17 STEVE AOKI: All right.

18 JOHN TAPPERT: All right. So we're here
19 if we need to talk again.

20 STEVE AOKI: Okay. Thanks a lot.

21 JOHN TAPPERT: Take care, bye.

22 STEVE AOKI: Bye.
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1 (CONFERENCE CALL INITIATED)

2 0%A61A#_15365094

3 MALE PARTICIPANT: Can you spell your last
4 name for me?

5 JOHN TAPPERT: T-A-P-P-E-R-T.

6 MALE PARTICIPANT: Okay and 816-5100 a good
7 number for you?

8 JOHN TAPPERT: Yes or the direct line I guess
9 is 301-816-5419.

10 MALE PARTICIPANT: 5419. And how about an
11 e-mail?

12 JOHN TAPPERT: Nema (phonetic) what's an
13 e-mail here?

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1 (CONFERENCE CALL INITIATED)

2 0%A62Q@L15365094

3 JOHN TAPPERT: You can send it to my personal.

4 It's john.tappert, t-a-p-p-e-r-t at nrc.gov.

5 MALE PARTICIPANT: John, (indiscernible)?

6 At nrc.gov. Do you have a SIPRNet account?

7 JOHN TAPPERT: Do you have (indiscernible)
8 SIPRNet in the Ops Center?

9 MALE PARTICIPANT: I don't know what that
10 is.

11 JOHN TAPPERT: It's a secret internet. I
12 don't have access to it readily. Is it classified?

13 MALE PARTICIPANT: Yes, this is stuff that
14 was done on the SIPRNet.

15 JOHN TAPPERT: Okay. I'm sure we have that
16 capability. So let me, yes, we'll look into the account
17 number and you can see what it's going to take, if you
18 could share it (indiscernible, possibly at all).

19 MALE PARTICIPANT: Okay. And you're simply
20 wanting the products that we've been producing for Seventh
21 Fleet?

22 JOHN TAPPERT: Yes, well specifically
23 anything that you've done on dose projections. We're
24 trying to benchmark. We've been trying to do some of
25 the same work here and on limited data. In fact we're

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1 actually using this other data that was collected at
2 the Reagan to kind of back calculate. So we're just
3 trying to see what other assessments are out there to
4 kind of bench mark.

5 MALE PARTICIPANT: Okay. Well I tell you
6 what, we're going to contact, let's see Commander
7 Hendrickson at Seventh Fleet and see if he is all right
8 with us sharing that. And then while we're doing that
9 you can try to find like an (indiscernible) account we
10 can send this to.

11 JOHN TAPPERT: Sure. Okay.

12 MALE PARTICIPANT: All right.

13 JOHN TAPPERT: Thank you, sir.

14 MALE PARTICIPANT: Just a second. Let me
15 clarify something real quick. We've actually been doing
16 like some modeling for, you know, on the (indiscernible,
17 possibly unclassified) site for projections based on like
18 as far as full containment failure and so forth. So
19 is that what you're asking about?

20 JOHN TAPPERT: Yes.

21 MALE PARTICIPANT: Okay. So you're
22 actually asking about, because we've been doing an
23 unclassified) product for the last couple of days.

24 JOHN TAPPERT: That would be the easiest
25 thing for us to handle to be perfectly honest with you.

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1 MALE PARTICIPANT: Okay. Now that one,
2 because we've been doing that for more than just Commander
3 Hendrickson, we've got a little more leeway on.

4 JOHN TAPPERT: Yes, that would be sufficient.
5 I mean basically we're just trying to reach out and
6 I heard that this existed. And we just wanted to, if
7 you could share it then we just wanted to see if you're
8 in the same ball park that we are.

9 MALE PARTICIPANT: Okay. Well I tell you
10 we can certainly get our (indiscernible) product out
11 to you a little bit easier. And like I said that one
12 has a little bit broader audience. So we can work on
13 that. And then if need be, if you can maybe track down
14 a (indiscernible) account that it may be. And you can
15 maybe contact us back with that.

16 JOHN TAPPERT: Okay.

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

19 JOHN TAPPERT: Yes.

20 MALE PARTICIPANT: Okay.

21 JOHN TAPPERT: Thank you.

22 MALE PARTICIPANT: Yes.
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(CONFERENCE CALL INITIATED)

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GEORGE DAVENPORT: (indiscernible) Reactor,
this is Davenport.

JOHN LUBINSKI: Hi, this is John Lubinski

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1 from the Protective Measures Team at Nuclear Regulatory
2 Commission. I was calling for Tom Waldrop (phonetic).

3 GEORGE DAVENPORT: Actually Mr. Waldrop has
4 left for the evening here. We're on crew rotation. Can
5 I help you?

6 JOHN LUBINSKI: Yes, can we get your name?

7 GEORGE DAVENPORT: George Davenport
8 (phonetic).

9 JOHN LUBINSKI: George Davenport. Thank
10 you, George. The reason we are calling is we, the last
11 information we got from the USS Ronald Reagan we got
12 a dose rate of 0.6 millirem per hour.

13 And we wanted to see if there was, if we
14 could get some updated information as far as the location
15 of the Reagan and what the current dose rates are at
16 the Reagan and if there is any analysis of air sampling
17 it would tell us what isotopes are being measured at
18 the Reagan.

19 GEORGE DAVENPORT: The information that I
20 do have at this time is that they don't have any isotopic
21 analysis of the air samples. So we're working on getting
22 some equipment to the ship so that we can actually perform
23 that analysis.

24 I don't have any (indiscernible, possibly
25 CD) yet. The arrival time for that equipment

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1 JOHN LUBINSKI: I'm sorry. I missed the
2 second half of your comment.

3 GEORGE DAVENPORT: I said I don't have an
4 arrival time yet for that equipment.

5 JOHN LUBINSKI: For the equipment, thank
6 you. Okay.

7 GEORGE DAVENPORT: So more to follow when
8 we get that there and perform those analyses. At this
9 point the ship has relocated north and she is currently
10 not reading any measurable gamma doses.

11 JOHN LUBINSKI: Okay. No measurable gamma
12 doses. And I'm sorry the location again?

13 GEORGE DAVENPORT: North is the best I can
14 do for you.

15 JOHN LUBINSKI: North from where it was
16 before. So it would be a bit further than it was. The
17 last reading or the last location we have is about 100
18 miles from Fukushima. So now you're not in the down
19 wind any longer.

20 GEORGE DAVENPORT: Correct.

21 JOHN LUBINSKI: Okay. And can you confirm
22 to us the last readings that you had and the location
23 of the ship at the time?

24 GEORGE DAVENPORT: The last reading that
25 I have in front of me would be, I'm sorry I'm just trying

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1 to make sure I get the right distance here. I believe
2 she was 100 nautical miles, I mean it was (indiscernible,
3 possibly .6) it sounds like the (indiscernible, possibly
4 battle point) that you have.

5 JOHN LUBINSKI: .6 and was it MR per hour?

6 GEORGE DAVENPORT: That is correct.

7 JOHN LUBINSKI: Okay. Thank you very much.

8 Appreciate it, George. And I guess we will get back
9 in touch with you at some point just to get a status
10 on any equipment that would come onto the ship as far
11 as taking an isotopic reading.

12 GEORGE DAVENPORT: Okay. Now as far as
13 information flowing to you is there a point of contact?

14 JOHN LUBINSKI: At this point the number
15 you should call and I'll give this to you, is 301-816-5419.

16 And there's, there are about four or five of us that
17 will be at this phone. And we'll be switching shifts
18 at about 7:00 a.m. Eastern Time.

19 GEORGE DAVENPORT: Okay. Have you been
20 provided any additional data at this point other than
21 what Mr. Woldrop provided you?

22 JOHN LUBINSKI: We were provided a briefing
23 package that --

24 MALE PARTICIPANT: That came from
25 (indiscernible, possibly CD).

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1 JOHN LUBINSKI: -- CD I'm sorry. Okay, we
2 got data that came in. It was updated at 20:40 on 3/13.

3 Had air sampling from the flight deck, location in
4 longitude latitude. And I believe the isotopic it got
5 was from some smears that were taken from some people
6 that were flown into the ship via helicopter.

7 GEORGE DAVENPORT: Okay.

8 JOHN LUBINSKI: So that's the, and that's
9 the last data we have.

10 GEORGE DAVENPORT: I understand. Yes, we
11 have not received anything since that information.

12 JOHN LUBINSKI: So this is, you have not
13 received the information I'm discussing?

14 GEORGE DAVENPORT: I believe we have that.
15 I just don't have that in front of me.

16 JOHN LUBINSKI: Okay. But you believe
17 that's the most recent data, correct?

18 GEORGE DAVENPORT: Correct.

19 JOHN LUBINSKI: Okay, thank you. George,
20 I appreciate it. If you have anything that, new that
21 comes up if you can get in touch with us we would appreciate
22 it.

23 GEORGE DAVENPORT: Will do.

24 JOHN LUBINSKI: Thank you.

25 GEORGE DAVENPORT: Thank you.

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1 JOHN LUBINSKI: Bye.
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(CONFERENCE CALL INITIATED)

TONY (PHONETIC): Anyway.

JOHN LUBINSKI: Hi, this is NRC. John Lubinski speaking.

TONY: Yes, I was calling the office, from Japan calling. I wanted to talk about that e-mail request I got from you all for some source term data and anything we got. I just want to talk to you about some what I got here and see if it'll fit your needs.

JOHN LUBINSKI: Yes, hey, are you with Jim Trapp also?

TONY: Actually, Jim's not here, he's up briefing the ambassador right now.

JOHN LUBINSKI: Okay. Hey, let me grab a couple other people. This is John Lubinski and Greg Casto and we're going to get some other people in here since we've got you on the line and can get information from you, I want to make sure we get a full list of questions.

TONY: Okay, great, thanks.

MALE PARTICIPANT: Yes, I can't quite understand it (inaudible) the water's sitting right there, and, I mean.

JOHN LUBINSKI: No, I mean, he's not with Jim. Jim's up there with a briefing of the ambassador.

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1 He may have answers to questions. Okay, Tony?

2 TONY: Yes sir?

3 JOHN LUBINSKI: You there?

4 TONY: I'm here.

5 JOHN LUBINSKI: Okay, so you were going to
6 give us an update?

7 TONY: Well, I got the e-mail from Greg,
8 seeking some information on their releases and anything
9 we know about source term. Now what we have here, and
10 I think we actually have an updated list, too, and I'll
11 fax you both of them. We just let a meeting with NISA,
12 (inaudible) and some medical a little bit ago and they
13 gave us what we think is the most up-to-date information
14 we have from the sixth detector, (inaudible).

15 Apparently they have like, a car to drive
16 around that actually (inaudible) measurements, too.
17 So I'll get that to you, we have to get it translated
18 first and then I'll get it to you. Essentially, what
19 we have, again, are, we have measurement information
20 at different time intervals at the six or seven different
21 locations around the plant.

22 And it's pretty clear from looking at the
23 data when they vent because you can see a big spike in
24 the measurement. But in terms of volume, that's going
25 to be tricky. And in terms of what the pressures are,

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1 all I can do is speculate.

2 You know, we've had some information that
3 they have been waiting until the pressure gets to about
4 twice design, roughly 90 pounds or something like that,
5 and then they'll vent. You know, we probably ought to
6 be able to make a pretty good guess knowing how long
7 the vent went based on this (inaudible) to be able to
8 estimate what the volume that was released.

9 So if I give you that kind of stuff, hopefully
10 you guys can put something together.

11 JOHN LUBINSKI: Okay, that sounds great.
12 And you're going to fax that over to us?

13 TONY: Yes, I'm going to fax you this one.
14 I have one that's translated now. This is, this goes
15 up through, I think this goes up through the end of the
16 13th local time, and then we've got another set of data
17 from what we just got, literally a few minutes ago and
18 working on translating it right now.

19 So I'll fax that over once I get that. So
20 I'll send this to you. Aren't you guys trying to
21 adjust -- do you guys have a map of where, of where the
22 radiation detection stations are around the site?

23 JOHN LUBINSKI: We've got one that, it lists
24 them as MP1 through 8. Is that the--

25 TONY: That's correct. I think they're only

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1 giving us data for MP1 through 6 on this, best as I can
2 tell.

3 JOHN LUBINSKI: Yes, considering their wind
4 direction, I'm not surprised, but okay.

5 TONY: Yes, okay, well, and also, I'm sorry,
6 go ahead?

7 TOM (PHONETIC): Tony? Isn't the wind
8 blowing out to sea and aren't these detectors upland?

9 TONY: That's correct. Now also bear in
10 mind, though, that we're hearing from our NMSA colleagues
11 here that they're predicting the weather patterns to
12 shift with the prevailing winds heading south towards
13 Tokyo as of tomorrow.

14 So they're predicting a shift in the weather.
15 So you got to bear that in mind as well.

16 JOHN LUBINSKI: And that's tomorrow
17 afternoon, correct?

18 TONY: Yes, as I understand it, yes.

19 JOHN LUBINSKI: I'm sorry to be a little
20 bit slow, but regarding the venting that's being
21 considered, this is for Unit 2?

22 TONY: Right now, as I understand it, they
23 are actually venting, as I understand it, periodically,
24 all the units. That's kind of the best information we
25 have at this point. Have you guys heard about the explosion

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1 in Unit 3 that happened this afternoon?

2 Tom: No.

3 JOHN LUBINSKI: Yes.

4 TOM: Oh, yes, yes, yes.

5 TONY: Yes, that was another hydrogen burn.

6 That's the best information we have, that they're
7 periodically venting as needed for all the containments.

8 They're telling us, they just told us a few minutes
9 ago that best information they have is that all three
10 containments are still intact.

11 You know, that the explosion just simply
12 damaged the reactor bin.

13 EVA (PHONETIC): Tony, this is Eva
14 (phonetic). Jim's e-mail said that they lost cooling
15 on all three units? Is that--

16 TONY: That's correct.

17 EVA: So there's no--

18 TONY: Well, the information that we just
19 received from over our meeting was that as of 1:00 to
20 3:00 AM local time here, they lost the ability to inject
21 seawater. So that's been well over 12 hours.

22 And as of now, as best as we understand what
23 they told us, they've not been able to recover that.
24 And they started, you know, they were beginning to express
25 some concerns about Unit 2 because we believe they were

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1 telling us that (indiscernible, possibly "RIXY") is
2 beginning to give them some problems on Unit 2 and that
3 they're not able to maintain levels.

4 That level is beginning to drop in the RCS.

5 That's the latest we have on the status of the units.

6 JOHN LUBINSKI: Tony, can you repeat for
7 me when you said they lost the ability to inject seawater?

8 TONY: What they're doing, as we understand
9 it is, and we're not completely clear on what they're
10 doing here, but apparently they have some pools on site,
11 either one or more pools, that they were pumping seawater
12 into, and then they were using those as a source to hook
13 up what we believe is a fire truck, which they're using
14 to inject water into the RCS and into the containment.

15 Apparently they lost the ability to move
16 water into those pools, so these pools dried up. I'm
17 not exactly clear whether they had problems with the,
18 problem what they said, is that they lost their water
19 source.

20 And it's not clear exactly whether that means
21 they lost the pumping capability or whether they actually
22 lost their source of water. However, that seems unlikely
23 given the site is located right next to the sea.

24 JOHN LUBINSKI: And but you said, when did
25 they lose that ability? I thought I heard you say 12

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1 hours ago? Did I miss--

2 TONY: That happened as of 1:00 to 3:00 AM
3 this morning. That's what we just learned over the last
4 hour.

5 JOHN LUBINSKI: 1:00 to 3:00 AM local time?

6 MALE PARTICIPANT: Yes.

7 TONY: Right.

8 JOHN LUBINSKI: Thank you.

9 TONY: 1:00 to 3:00 AM local time.

10 EVA: Hey, Tony, (inaudible) pumping the
11 seawater into? Were they putting it into the vessel
12 or into the dry well?

13 TONY: They're telling us that they're
14 putting it into both.

15 EVA: Understand.

16 TONY: Well, we have not probed yet the
17 mechanism of how they're actually tying into the RCS,
18 and that's something that, when we have the opportunity
19 to actually speak to what I'd consider a Reactor Systems
20 Engineer, we'll intend to bring that up at that time.

21 But these folks here, (inaudible) to answer
22 that question. We did ask them about the status of the
23 spent fuel pools and they indicated that they are
24 monitoring them and that they are all in good shape so
25 far. That was their response.

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1 JOHN LUBINSKI: Good.

2 TONY: So, say again?

3 EVA: How are they cooling the pools?

4 TONY: Don't know.

5 EVA: Understand.

6 TONY: They didn't go into that information.

7 MALE PARTICIPANT: It would take days to
8 boil off anyway, so I wouldn't worry about it.

9 TONY: Yes, it'd be a long time. So again,
10 the information we have is that as of right now, the
11 best information they have is, you know, they believe
12 that they currently have all of the fuel cut in all three
13 units, but they're getting concerned about what they're
14 seeing in Unit 2.

15 In other words, the level is trending down
16 and that's what they told us. But obviously they have
17 not had injection for over 12 hours.

18 TOM: I'm sorry to, you know, we're so hungry
19 for information, and I know you only have so much, but
20 we understood that mobile power sources were brought
21 onto the site and recharging of batteries was unsuccessful
22 or successful? We don't know which.

23 TONY: Well, okay, go ahead. They were
24 talking about, they still have not restored AC to any
25 of these units. They indicated that they were having

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1 trouble with the batteries. They didn't indicate which
2 unit they were talking about, but yes. That's correct.

3 They indicated they're having trouble hooking the
4 batteries up.

5 They have what they call battery carts, which
6 are things they roll in to use when the station batteries
7 are dropped, they bring in new batteries, apparently,
8 to restore that capability.

9 So that is correct, that's what we're being
10 told. It's not clear which unit they're talking about,
11 whether it's all three or whether, perhaps, it's one
12 of the ones that had an explosion, perhaps, and it had
13 done some damage.

14 But that's my speculation. I don't know
15 what they use it for.

16 TOM: So, I mean, I understand you don't
17 have all the answers and don't have access to the people
18 who do, but, I mean, are they trying to airlift in sizable
19 AC power sources?

20 TONY: We just don't know at this point.
21 We asked them if they have been able to restore AC and
22 they told us that they have not. That's the best
23 information we have at this time.

24 I'm not sure why they haven't been able to
25 do that. I don't know.

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1 TOM: Yes. Well, I don't know. Maybe this
2 is a dumb thing to say, but I mean, don't we have heavy
3 lift helicopters nearby and couldn't we just airlift
4 in, you know--

5 TONY: Our role in this is assessment and
6 liaison. We're not here to tell the Japanese how to
7 solve the problem, we're just here to gather information.
8 If they, you know, we made it clear.

9 Jim made it clear today that if NISA wants
10 help, then we're standing by ready to provide it. That
11 was it. That was the gist of the discussion.

12 TOM: Yes, thank you, Tony.

13 JOHN LUBINSKI: Tony, we agree, I think,
14 so Tom, that was more a question, than--

15 TOM: Yes, yes, yes.

16 JOHN LUBINSKI: -- that they had already
17 considered that and it was off the table for some reason.

18 TONY: As I understand it, they have ample
19 heavy lift capability and they would have the ability
20 to lift in if they needed to. And I don't know any more
21 than that.

22 JOHN LUBINSKI: Okay.

23 EVA: Hey, Tony, are we, are you sure that
24 the issues are only at the Dai-ichi units? Do we have
25 any additions? Are there any other units, the Daini

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1 or the Onagawa units?

2 TONY: They talked to us specifically and
3 said that at Daini they have restored off site power,
4 but they've lost the heat sink for all units at Daini.
5 But they have restored off site ACs. We did not talk
6 about Onagawa.

7 I know we have that kind of (indiscernible,
8 possibly "fluid") report out there about having seen
9 some elevated rad levels there, but that did not come
10 up in our conversation.

11 DAVE SKEEN: Tony, this is Dave Skeen.
12 Anything on any other units in Japan, or is that the
13 only ones you've heard anything about?

14 TONY: Those are the only ones we've heard
15 anything about and those are the only ones that we've
16 been discussing. And it's very, you know, we're focusing
17 on the Dai-ichi units this afternoon in our conversation.

18 DAVE SKEEN: Okay.

19 MALE PARTICIPANT: It sounds like if they've
20 lost Unit 2 cooling, though, that it's headed down the
21 same path as 1 and 3 if they can't do something to restore
22 that.

23 TONY: Our sense is is that they were
24 beginning to set that up as a possibility. That's our
25 sense.

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1 MALE PARTICIPANT: Okay.

2 TONY: They brought that up and mentioned
3 it specifically.

4 MALE PARTICIPANT: The other thing we had
5 heard, Tony, was possibly evacuating the people out of
6 the embassy since the weather is supposed to change
7 tomorrow. Have you heard?

8 TONY: We haven't heard anything about that
9 at all here, and, you know, that hasn't been mentioned
10 at all to anybody here.

11 MALE PARTICIPANT: Okay.

12 TONY: Far as I know. I think that, you
13 know, I guess we have to agree on (inaudible), so. Go
14 ahead.

15 MALE PARTICIPANT: I'm sorry. You said at
16 Onagawa they were having an increase in dose rates.
17 We had gotten that information, I believe, probably about
18 three, four hours ago, and I saw something come across
19 CNN that it was actually decreasing again. Is that some
20 misinformation, or, and when it increased, it didn't
21 sound like it was that much of an increase. Do you have
22 any --

23 TONY: Well I'm reacting to the last version
24 of the SitRep I read that you all put together, it's
25 been so long ago I don't even remember, where it was

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1 mentioned that we were seeing a, roughly, I think it
2 was a 2.1 MR per hour that was graded on Onagawa. That's
3 what I'm reacting to. I don't have any other information
4 beyond that.

5 MALE PARTICIPANT: Thank you.

6 TONY: I understand that the Japanese
7 authorities are attributing that to what's happening
8 down at the Fukushima units, but I'm not in a position
9 to confirm that independently one way or the other.

10 MALE PARTICIPANT: Just to repeat back to
11 you is, you're hearing verbal discussion that they're
12 attributing that increased dose rate at Onagawa based
13 on what's happened at Fukushima?

14 TONY: No, I read that. I think I read that
15 in your Sit Rep. We didn't discuss the Onagawa unit
16 at all today. That did not come up in our conversations.

17 MALE PARTICIPANT: Okay. We'll track down
18 the source of where we got that information then. Thanks.

19 MALE PARTICIPANT: Hey Tony, can I ask, once
20 again, do you know, is the site isolated or are trucks
21 and heavy equipment able to get in? Or maybe even on
22 this last (inaudible)?

23 TONY: I'm sorry, hold on a second. Joe,
24 just flip off. I think -- (inaudible) the other end
25 of it.

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1 JOE: Oh, okay.

2 TONY: I'm sorry, can you repeat your last?

3 MALE PARTICIPANT: Yes. Is the site
4 isolated or are heavy trucks able to get in?

5 TONY: I don't know whether or not they're
6 able to get heavy vehicles in. I've begin the process
7 of (b)(5) and I'll look for that on the
8 site. So I'll get back to you on that one.

9 MALE PARTICIPANT: Thanks for all the 20
10 question answering. We're good at asking questions,
11 and just appreciate your effort.

12 EVA: Hey, Tony?

13 TONY: Not, this is good stuff. Yes ma'am?

14 EVA: Did you get the information you needed
15 on the reference levels and stuff?

16 TONY: I don't know if we got a fax here.
17 Yes, I think I see a fax sitting over there and I also
18 got the e-mail as well. That's what we thought. We
19 thought that the vessel levels for fuel zone was zero,
20 the (indiscernible, possibly "TAS"),

21 so that would indicate that what we were hearing was
22 that they basically quoted about half (inaudible), it's
23 actually, that doesn't jibe with what I just told you.

24 I think I'm beginning to forget my own lines
25 here. I need to get a little sleep.

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1 EVA: You're doing great, Tony.

2 TONY: Yes, actually, the information as
3 of 11:35 today for Unit 3 was that the indicated level
4 was -1800 millimeters and that calculates to roughly -6
5 feet. And, you know, ad again, we're assuming that that
6 fuel zone, we don't know that, but that may be off the
7 wide range (inaudible), we're just not sure. But this
8 was from the (inaudible) reporting.

9 EVA: I'll continue the range for the wide
10 range, and let you know.

11 TONY: And again, this is off of some less
12 than zero and we're just assuming that it's based on
13 fuel zone. You know, the actual range of the wide range,
14 that's, that'd be useful to have, but I don't think it's
15 going to help us address this questions. This was from
16 the TEPCO reporting, so.

17 MALE PARTICIPANT: We saw an estimate
18 floating around of 55 percent core damage. Did that
19 come from anyplace you know about?

20 TONY: That didn't come from any of us.
21 I don't know where that came from. We were kind of sitting
22 around here brainstorming, Jim and I a little bit ago
23 earlier today if there'd be a way to, based on some of
24 the, I don't know, if we were able to get some (inaudible)
25 samples somewhere and do some mass spec on it to be able

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1 to back out what we could be expecting to see for overall
2 core damage.

3 But at this point, I think they're beyond
4 the save the reactor mode. I think they're into a long-term
5 safe and stable mode here on the units. I think they've
6 kind of transitioned.

7 Definitely for Unit 1 and 3, they're in a,
8 we need to fill up the vessel and the RCS (inaudible),
9 and that's, I think, where they're clearly going. And
10 for Unit 2, again, it appeared, again, that they were
11 beginning to discuss that Unit 2 was headed down that
12 path, but we don't have any firm information on that.

13 Again, as I said, they (inaudible) indicate
14 that the indicated level was dropping. I don't know
15 whether it is right now. They didn't tell us where the
16 level was. And that they were expressing concerns with
17 (indiscernible, possibly "RIXY")
18 and its ability to maintain level.

19 And quite honestly, the only way RIXY's not
20 going to maintain level is wither a, it's not functioning,
21 or b, you've got a loss of coolant somewhere.

22 MALE PARTICIPANT: Hey Tony, I think I have
23 what maybe is an easy question. As you said, you know,
24 you guys have been up for awhile and sleep's an issue.
25 What time are you guys going to be basically out of

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1 communication?

2 TONY: Well, I got to finish up sending this
3 stuff up to you guys and fax it and I got to go upstairs
4 to the shop upstairs (b)(5) I want
5 to get into that tonight because I think we need to send
6 out a few more (inaudible). So we need some more info.

7 So that will probably take another couple
8 hours. So I figure we'll be out of commission here probably
9 around 6:00 local or so.

10 MALE PARTICIPANT: Six local time?

11 TONY: Yes.

12 MALE PARTICIPANT: Tony, why don't you send
13 us a note when you and Jim are going offline and when
14 we can get in contact with you again so we're not bothering
15 you while you guys are trying to get some sleep.

16 TONY: Okay, will do. Jim's going to be
17 with the ambassador for the press conference at 4:00.

18 The ambassador asked him to be there. I don't believe
19 the ambassador expects him to speak. Is that true, or?

20 You know, Jim is going to be there, representing us
21 representing the technical expert at the briefing the
22 ambassador's giving at 1600 local.

23 MALE PARTICIPANT: Okay. We got that at
24 24 minutes from now?

25 TONY: Yes sir.

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1 MALE PARTICIPANT: Thank you.

2 TONY: I'm not sure if it's going to be a
3 worldwide broadcast or just a local broadcast. I don't
4 have that information. Anyhow, I'm hearing that we have
5 our latest (inaudible) that it's translated here, so
6 I'm going to fax you all these sheets.

7 And why don't you guys look at this stuff
8 and tell me if you can make heads or tails of it. If
9 not, give me a call back and let's talk and see if I
10 can come up with something else.

11 Again, I think you can probably estimate
12 the venting duration from looking at the spikes on the
13 rad monitors. And again, all this stuff here, you know,
14 this stuff here is just in simple millisieverts per hour.

15 You know, there's no mass spec data in here.

16 JOHN LUBINSKI: As far as if we have questions
17 or don't understand, is the best way just to send you
18 back an e-mail?

19 TONY: Yes sir, that's the best way to do
20 it.

21 JOHN LUBINSKI: Okay. And you'll fax that
22 how long from now? Just to make sure if we don't get
23 it, we --

24 TONY: In the next couple of minutes here.
25 We'll finish clearing the fax machine here, so after

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1 our internet (inaudible) call is done, I'll hop on and
2 send this to all of you.

3 MALE PARTICIPANT: Hey, we saw in one of
4 Jim Trapp's e-mails, consideration of evacuating US
5 personnel from Tokyo. Was that -- are you seriously
6 considering that, or are you waiting for a --

7 TONY: I do not believe so. Let me confirm
8 here. As I understand it, it was a question about
9 (inaudible) a question about evacuating personnel and
10 there's no discussion at all about evacuating personnel.

11 MALE PARTICIPANT: Fine.

12 TONY: That's correct. Now I guess the
13 confusion may be, apparently there's some information
14 and if I'm wrong, correct me here, that was sent out
15 by the French and German embassies recommending that
16 French and German citizens leave Japan?

17 MALE PARTICIPANT: No, the French and
18 German --

19 MALE PARTICIPANT: We haven't heard from
20 French (inaudible) Germany.

21 TONY: Okay.

22 MALE PARTICIPANT: Well, I understand your
23 answer, but I'm almost certain that I just saw an e-mail
24 from Jim Trapp where that issue was being contemplated.

25 TONY: Well, folks, he's upstairs with the

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1 ambassador right now. I can't tell you what he's talking
2 about. But if he's sending the e-mails live, I'm not
3 privy to that. But like I said, right now, the ambassador
4 has made a very strong statement that there's no need
5 for US citizens to evacuate Japan.

6 MALE PARTICIPANT: Thank you.

7 TONY: That's the statement that's been
8 made.

9 MALE PARTICIPANT: Thank you.

10 MALE PARTICIPANT: Anything we can do for
11 you, Tony?

12 TONY: No, actually, I'm good. I just wanted
13 to follow on that. Actually, the ambassador also
14 indicated that US citizens should follow the information
15 from Japanese civil defense. I'm just passing this on
16 from some of the NRC staff.

17 Anyhow, I've got to fax this stuff off to
18 you guys and then I got to roll upstairs, too, okay?
19 So --

20 MALE PARTICIPANT: Thanks, Tony.

21 MALE PARTICIPANT: Thank you.

22 JOHN LUBINSKI: Thanks for the call, Tony.
23 We appreciate it. Thanks.

24 TONY: Get back to me if this isn't what
25 you need, okay?

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1 JOHN LUBINSKI: Will do. We'll e-mail you
2 if we have any questions. Thanks.

3 TONY: All right, thanks.

4 JOHN LUBINSKI: Bye.

5 TONY: Bye.
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(CONFERENCE CALL INITIATED)

JOHN LUBINSKI: NRC, John Lubinski.

TONY: Yes, hi John. This is Tony. You guys asked me to call you back. E-mail?

JOHN LUBINSKI: I didn't think we asked you to call back. I think that was maybe in a previous e-mail. I just sent -- did you get --

TONY: Maybe it was Eva asked me to call back. Is Eva in the RFC?

JOHN LUBINSKI: Yes, hold on, let me get her.

TONY: Thanks. Yes, she (inaudible), Tony, sorry about that.

JOHN LUBINSKI: Okay, thanks John. I apologize. I called the wrong place.

JOHN LUBINSKI: Oh, no problem. You're good.

EVA: Hey Tony, what's up?

TONY: Hey, did you ask me to call you back? I saw an e-mail from you that said call me.

EVA: Yes, that was a little earlier, but one thing we might want to confirm with you is the status of level trending on Units 1, 2, and 3 for Dai-ichi. Because when we talked to you before, you only indicated

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1 that Level 2 had decreasing levels, but they -- do you
2 have any idea about Unit 1 or 3, given that there's no
3 seawater injection?

4 TONY: I know that Unit 3, as of 11:35 local
5 time was indicating level at -1800 millimeters, whether
6 it's trending up or down, I don't know.

7 EVA: I understand. Okay, I just wanted
8 to confirm because you told us --

9 TONY: Yes, I don't know the information
10 about Unit 1. I'm not sure where it is. And unit 2,
11 again, I believe we just got some reporting in just a
12 little bit ago from TEPCO that indicated that they're
13 having problems with (inaudible). They actually came
14 out and mentioned it publically.

15 But I seem to recall having that conversation
16 here a minute ago, which confirms what they told us
17 (inaudible) across the street over there at (inaudible),
18 so, and again, they appear to be having trouble with
19 level control on unit 2.

20 EVA: I understand. Just wanted to confirm.
21 All righty. I think that was the big thing we had.
22 Did we have anything else? Okay, so that was the big
23 thing.

24 TONY: Okay, all right.

25 EVA: (Inaudible) I'm sorry. Chris

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1 (inaudible).

2 TONY: Okay.

3 CHRIS MILLER: Hey Tony?

4 TONY: Yes sir?

5 CHRIS MILLER: This is Chris Miller, and
6 I just got off the phone with State Department, with
7 DoD, a whole bunch of other people, and you've probably
8 been talking to some of them. But the question came
9 up, and we had heard before that they had lost the ability
10 to supply water to the cooling ponds or whatever they're
11 calling, that they were pumping water from those ponds
12 into, you know, and low pressure (inaudible) them into
13 the reactor.

14 The question came up, is there any other
15 support that could be provided by the military? And
16 I guess, or by other, by the US, well, what I --

17 TONY: (Inaudible) from where I sit, I think
18 the answer to that question is yes. However, that goes
19 beyond the parameters of our mission here to basically
20 tell them how to work this.

21 So that's kind of where we sit on this right
22 now, and that's kind of a challenge for us here. We
23 believe that we think they could, you know, again, this
24 is our speculations, we think that they could probably
25 increase the pumping capacity with additional equipment

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1 or different equipment.

2 We don't know for sure, but again, they have
3 not asked us for that information and Jim specifically
4 indicated to them that if there's anything that they
5 need, that they should tell us and we would work to get
6 it for them in the meeting he had a couple of hours ago.

7 So that's kind of where we are.

8 CHRIS MILLER: Okay. Because we had heard,
9 and I'm not challenging that, and you know better than
10 I do, but we had heard that they had put out kind of
11 a broad request for assistance on their team to help
12 them solve the problem.

13 I'm not sure exactly how that request came
14 in, but so if Jim's thinking that's beyond our capacity,
15 then, or our scope, I guess.

16 TONY: Is that coming through DoD channels,
17 or, I don't think I've heard that?

18 CHRIS MILLER: I'm talking to Tom Blount
19 now. Were you working with the Liaison Team working
20 on some sort of a request when there was a Government
21 of Japan request for US assistance?

22 TOM BLOUNT: There's some traffic from GH,
23 from the NOC, DHS's NOC that indicated that there had
24 been a request for, six formal requests, made by the
25 Government of Japan. One of which was nuclear incident

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1 response assistance.

2 Another was landing authority on the Ronald
3 Reagan, and other, there were four others.

4 TONY: Where did you read this from? DHS?

5 TOMBLOUNT: Yes, it came from a NOC, National
6 Operations Center briefing that was put together. And
7 we were asked, what was our support to that, and who
8 was following upon it? I would expect the Nuclear Incident
9 Response piece to be a DoE issue.

10 But I hadn't heard, and we weren't aware,
11 that a formal request had come through the State Department
12 or anyone else. It was just this e-mail traffic that
13 said hey, this request had been made.

14 So we're trying to verify it.

15 TONY: Okay. You know what? I'll see if
16 folks here, we can run this down a little bit, too, okay,
17 see what we can get there, because I hadn't heard of
18 this, so we'll see where this goes, but we'll work it
19 on this end, too.

20 CHRIS MILLER: But at this point, other than
21 what we're doing on the protective measures side of it,
22 as far as solving the problem at the reactor, you think
23 we -- they're not asking for the help, basically?

24 TONY: No, again, Jim made it very clear,
25 we are basically standing by to provide assistance if

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1 you ask, and, you know, those aren't the right words,
2 but that is the gist of the comment. So they did not
3 ask for any specific assistance.

4 CHRIS MILLER: Okay. Just, if it comes up,
5 you know, (inaudible) all the ways that we can help them.

6 I know that the other folks from the other departments
7 that were on this call, the 3:00 o'clock call that we
8 just had, (inaudible) were saying, hey, you know, we're
9 standing by to provide everything, including, you know,
10 somebody mentioned Bambi buckets on the bottom of the,
11 you know, dropping water as another way to get water
12 into those ponds.

13 TONY: yes, we've been talking about that
14 here, too, so, well, you know, I'll see if we can work
15 this on this side. But for now, Protective Measures
16 Team does have what they need and they're working it?

17 CHRIS MILLER: Yes. Yes sir. Thank you.

18 TONY: Okay. Thanks.

19 CHRIS MILLER: I appreciate it.

20 TONY: All right. (inaudible).

21 MALE PARTICIPANT: Thank you, Tony. That
22 was Tony, wasn't it?

23 EVA: Yes. Bye.
24
25

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0%B#F2NL15365094

(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Sure.

OPERATOR: You have reached the United States department of Energy Operations Center. Your call is being transferred to a DoE Watch Officer.

STU BAILEY: Hello, Stu Bailey, can I help you?

GREG CASTO: Hi Stu, this is Greg Casto at the NRC Operations Center. We're looking for Dave Bowman, or whoever is on shift for him.

STU BAILEY: Okay, you're calling from NRC operations Center?

GREG CASTO: That's correct.

STU BAILEY: And your name was Greg what?

GREG CASTO: Casto, C-A-S-T-O.

STU BAILEY: Right now I don't know who's back there, but I'll put you through to them and I'll let you talk to whoever's on duty.

GREG CASTO: Okay, that'll work. Thanks.

STU BAILEY: Go ahead, please.

GREG CASTO: Okay, thanks.

BILL BEAL: Hey, this is Bill Beal at (inaudible).

GREG CASTO: Hey Bill, this is Greg Casto,

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1 NRC Ops Center. Also, John Lubinski.

2 BILL BEAL: Okay.

3 GREG CASTO: We were calling just to touch
4 base, and also to ask a couple questions. We had heard
5 that DoE was interested in contacting the USS Ronald
6 Reagan and talking about some off site dose measurements
7 and assessments that they might --

8 BILL BEAL: Yes, I actually, just a little
9 while ago, I, myself had a conversation with the, someone
10 named Greg Davenport with Nuclear Reactors, asking him
11 several questions.

12 GREG CASTO: Yes, we've been talking to him
13 as well.

14 BILL BEAL: Okay, so the kind of stuff we
15 were asking is, you know, what kind of instruments were
16 they using, can we get the spectra that they took? I
17 don't know if you saw, but there was a print out of,
18 you know, isotopic, presumably it was a spectrum that
19 they took and they took reason of interest from the spectrum
20 and got, you know, relative isotopic out of that.

21 GREG CASTO: Right, that was from the
22 contamination sample that they got, I believe.

23 BILL BEAL: Right.

24 GREG CASTO: Yes, okay. Probably did.

25 JOHN LUBINSKI: Yes, I don't think we saw

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1 the spectrum, but we did see a list of the identified.

2 BILL BEAL: Yes, I haven't seen the spectrum
3 either. I think you guys saw the same list I did. We
4 were asking them if it was possible to get a spectrum
5 and part of the reason we were asking the question is
6 because the, well, the main reason we were asking the
7 questions is because the dose readings that they seem
8 to see on the Reagan didn't seem to jibe very well with
9 the, you know, the NISA numbers that we're seeing
10 published.

11 And I don't know if you guys agree, disagree,
12 but it seems like, I mean, I think we saw like, a 9 millirem
13 per hour reading from the Reagan?

14 GREG CASTO: 0.6 mr per hour dose rate from
15 the deck is what we saw, or what we understood.

16 BILL BEAL: Point six?

17 GREG CASTO: Yes, 0.6.

18 BILL BEAL: So let's make sure we're talking
19 the same information here. The spectrum that you're
20 talking about, you know, basically a list of isotopes,
21 that was from contamination swipes, right?

22 JOHN LUBINSKI: No, I'm talking about, you
23 know --

24 BILL BEAL: The airborne?

25 MALE PARTICIPANT: Yes, exposure

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1 measurements that they took using, you know, exposure
2 meters.

3 JOHN LUBINSKI: Now the airborne, from that
4 standpoint, that's what we were seeing is 0.6 mr per
5 hour. But they didn't have any spectrum on that. That
6 was just the gamma dose that they had a 0.6 mr per hour.

7 GREG CASTO: That's correct, and that was
8 from a survey.

9 JOHN LUBINSKI: Was that the highest one
10 you remembered seeing?

11 GREG CASTO: That's the only survey meter
12 result we had heard from them was 0.6 mr per hour.

13 BILL BEAL: Okay, let me see if I'm, I need
14 to look at this again and see if maybe I'm misreading
15 something. Because we were -- give me one sec here while
16 I log on.

17 JOHN LUBINSKI: Yes, we're trying to pull
18 out and see here, we had a, I think it was a series of
19 maybe three or four readings in an hour and a half.
20 I'm going from my memory here as we're digging for the
21 sheet.

22 GREG CASTO: The limited set of information
23 from them sounds like maybe we have gotten the same
24 information.

25 BILL BEAL: Okay, what I see is a reading

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1 of 2 millirem per hour with, on some sort of meter that
2 has a beta window on it and this is with an open beta
3 window.

4 GREG CASTO: Okay, so that's (inaudible)
5 okay. And then did they do a gamma only?

6 BILL BEAL: Yes, then they, with the closed,
7 that was the one that was 0.6 was the closed-window reading.

8 GREG CASTO: Oh, okay.

9 JOHN LUBINSKI: Yes, I think we just had
10 that 0.6 reading.

11 GREG CASTO: Yes, we did.

12 BILL BEAL: Okay.

13 GREG CASTO: It was, hmm, okay, that's
14 interesting.

15 BILL BEAL: And there's also, I have a reading
16 that's one meter above the deck. I'm not sure what
17 instrument this was, but that's 0.9 millirem per hour.

18 GREG CASTO: Why would that be --

19 BILL BEAL: Oh, and I still also see your
20 handheld gamma survey meter held above head, 0.6 millirem
21 per hour. So that's not the same one as the 0.6 with
22 the closed window. That's another 0.6 millirem per hour.
23 Actually, that's reported as miliar per hour.

24 GREG CASTO: Yes. And ours, we don't have
25 any. Okay, on the information we have, we did not get

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1 the open and closed window readings, which would indicate
2 that they were, should indicate that it looks like they
3 were in some kind of plume at the time they took that
4 reading.

5 BILL BEAL: Okay. So that's what prompted
6 the question, because that's awfully high.

7 JOHN LUBINSKI: Yes, I guess that's one of
8 the things, it's good we're talking if you've got some
9 different information, but I'm going to ask Randy. Randy
10 Sullivan's here on the call, too, that maybe he can talk
11 about some of the speculation we had with why that may
12 have been a suspected reading that high.

13 RANDY SULLIVAN: Yes. Where we went with
14 this is, our dose models don't go out that far, you know,
15 if we're using our reactor models. But if we were assuming
16 a 40 percent core melt and a design basis leakage, you
17 know, we get a certain set of numbers.

18 When NARAC back-calculated the, I believe
19 from the dose on the Reagan, back to the site, they said
20 that our numbers were something like a factor of 500
21 too low, which was distressing until we realized that
22 if you vent the containment and release 20 percent of
23 the volume in an hour, that turns out to be 500 times
24 more than the design basis leakage of a percent a day.

25 BILL BEAL: . Okay.

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1 RANDY SULLIVAN: Now we're not talking
2 quality precision here.

3 BILL BEAL: Right, right, right, or the
4 magnitude.

5 RANDY SULLIVAN: Yes. But, you know, since
6 we don't know nothing, you know, except that reading
7 and the distance, actually, we don't even know the distance,
8 but anyway, you know, NARAC's pretty sophisticated, and
9 we thought, well, heck, they're venting at 90 pounds
10 and probably knocking it down to well below the design
11 limit of 45.

12 So let's just speculate they're going from
13 90 to 30 or something, you know, that sounds, and from
14 the monitor readings, you know, the monitors around the
15 site, they kind of bump up for an hour, hour and twenty
16 at a time.

17 So I mean, you know, just connecting the
18 knee bone to the leg bone, we're thinking, you know,
19 it sounds like they've venting. And that if NARAC told
20 us that that 0.6 mr reading is 500 times our design basis,
21 then it sounds like we're sort of consistent with venting.

22 So there you have it. We didn't think those
23 numbers were out of line with each other somehow.

24 BILL BEAL: Okay, well that's actually
25 really useful insight that maybe we're, everything's

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1 so consistent that we just didn't know enough.

2 RANDY SULLIVAN: Well, I mean, I'm not sure
3 we know everything, either.

4 BILL BEAL: Well, at least there's, I mean,
5 there's at least one plausible explanation, so, and then
6 so we'll continue to leave the request out there and
7 if we get a response, great.

8 MALE PARTICIPANT: And if you do get a
9 response, we'd appreciate us if you could give us a call
10 back here and share it with us, if you have any other
11 insights.

12 GREG CASTO: Sure, yes, absolutely.

13 RANDY SULLIVAN: Now we do have somebody
14 over there now, and one of the pieces of information
15 we do know, and maybe you know this, too, but they have
16 been venting from all three units.

17 JOHN LUBINSKI: All three?

18 RANDY SULLIVAN: All three.

19 JOHN LUBINSKI: Okay. I didn't realize that
20 they had been venting from 2?

21 RANDY SULLIVAN: Oh, yes.

22 BILL BEAL: Two's in trouble, too?

23 GREG CASTO: Yes. But we did get
24 confirmation from Tokyo, or through our person with the
25 Japanese government that all three units are undergoing

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1 venting.

2 MALE PARTICIPANT: Okay.

3 BILL BEAL: Hey, while you're, one second,
4 while you're updating Unit 2 over there, I'm on a
5 conversation with NRC right now and they say they have
6 confirmation from Japanese government that they are
7 venting, that they're doing pressure release on Unit
8 2 as well as 1 and 3. Well, 1 and 3 have exploded.

9 But they are venting Unit 2 as well.

10 GREG CASTO: What else do we know that they
11 don't?

12 BILL BEAL: Is that, that's a plant decision,
13 government decision?

14 JOHN LUBINSKI: I've been reading the TEPCO
15 website and it's translated by Google. You know, it's
16 very inconveniently in Japanese. And it translated by
17 Google, I am getting the impression that injection of
18 saltwater and venting are both government-directed.

19 (b)(5)

20
21
22 (b)(5)

23 BILL BEAL:

24 (b)(5)

25 JOHN LUBINSKI: Yes, well, we can make

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1 suggestions and we do make suggestions but, you know,
2 if they said they were venting, they wouldn't come to
3 us for permission. They would just do it, right?

4 GREG CASTO: Right, I mean, they'd be
5 following procedures (inaudible) yes.

6 MALE PARTICIPANT: And what not.

7 JOHN LUBINSKI: You'd asked that other
8 information, I guess at this point, you know, what we
9 have is, I'll say maybe four data points. One is the
10 information we got from the Reagan, two is, we got some
11 information on dose rates upwind from the monitors they
12 had at the site.

13 And our tools don't let us use that to come
14 back and tell us what the downwind is going to be. But
15 that's where we saw, I think, as Randy said, the venting,
16 you could see that it just went up by a factor of three
17 for, you know, about an hour and came back down.

18 We, the information we just gave you about
19 the fact that they were actually venting all three units,
20 not two as we originally believed, and --

21 BILL BEAL: Was that all along they had been,
22 or just recently that they started venting Unit 2?

23 JOHN LUBINSKI: Our belief was that it had
24 been at least for the last 10 to 12 hours?

25 GREG CASTO: No, longer than that. I think,

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1 I want to say they started venting on the 12th.

2 JOHN LUBINSKI: Unit 2?

3 BILL BEAL: Unit 2?

4 GREG CASTO: No, not Unit 2, but Unit 1.

5 BILLBEAL: Onewas the onethey first started
6 venting.

7 GREG CASTO: Right, then 3, then 2, so it's
8 been, we're not sure which one at which time, but it's
9 been ongoing for some time.

10 MALE PARTICIPANT: Not to beglib about this,
11 but I think the venting started, you know, more or less
12 consistent with the hydrogen explosion. So you kind
13 of got a data point there for when the venting started.

14 So I don't think venting had started on Unit
15 2.

16 MALE PARTICIPANT: No, he said it started
17 in (inaudible).

18 GREG CASTO: It started, yes they had been
19 venting Unit 2.

20 BILL BEAL: (Inaudible) they had been
21 venting?

22 GREG CASTO: Yes, and in fact, they vented
23 Unit 1 for some time before they got that explosion.

24 MALE PARTICIPANT: Oh, okay.

25 BILL BEAL: Yes, that's what I had thought,

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1 too. (Inaudible).

2 GREG CASTO: I'm looking for a date here.
3 Probably the 12th.

4 MALE PARTICIPANT: I guess what I meant to
5 say is, to get that kind of hydrogen, you would have
6 to have had core melt to an extent.

7 BILL BEAL: Okay, as long as I got you guys
8 on the phone, this is something we had sort of talked
9 about without the level of expertise, but the hydrogen
10 is, there's two sources of the hydrogen, correct?

11 I mean, there's the disassociation of the
12 water and then also the cladding oxidizing, correct?

13 MALE PARTICIPANT: Yes. But I would worry
14 too much about the dissociation of the water.

15 BILL BEAL: That's minimal?

16 MALE PARTICIPANT: Well, you know, I don't
17 want to, I mean, they also scavenge oxygen by injecting
18 hydrogen in these systems when they're operating. But
19 I think it's really, you know, what you're worried about
20 is the oxidation of the clad, which means the clad is
21 burning.

22 BILL BEAL: Right, okay. Yes, that was just
23 sort of a side thing that, something we had been talking
24 about awhile back. Since I had you on the line.

25 MALE PARTICIPANT: Well, along the same

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1 lines, when we're seeing cesium, generally that means
2 there's been core damage.

3 BILL BEAL: Right, right.

4 MALE PARTICIPANT: I mean, I can't make heads
5 or tails out of the ratios and the amounts because we
6 just don't have enough information. But, you know, if
7 you're seeing, gosh, we're seeing tellurium?

8 BILL BEAL: Now I didn't look carefully.
9 I wasn't here when that report came in when they were
10 feeding it to our home team, so I didn't look carefully
11 at the rations there to see if, because I think that
12 everything that's on the list there is just some template
13 that they applied to the spectrum, I suspect.

14 MALE PARTICIPANT: Sure.

15 BILL BEAL: And just reported what all the
16 relative concentrations were based on the area in the
17 reasons of interest.

18 GREG CASTO: Right.

19 BILL BEAL: So it may or may not be reporting
20 all of the relevant nuclides. It may just be reporting
21 really small concentrations of things that aren't really
22 there.

23 MALE PARTICIPANT: Well, yes, okay, that's
24 possible. But I'm just slipping a gear whether tellurium
25 is volatile or not. It probably is. I mean, given that

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1 the cesium and iodine are both volatile. Anyway.

2 MALE PARTICIPANT: Okay, well I guess if
3 we get any information from NR, Naval Reactors, then
4 we'll pass it on to you guys as well if there's valuable --

5 BILL BEAL: Okay, we appreciate that.

6 MALE PARTICIPANT: -- data there.

7 MALE PARTICIPANT: Do you have any other
8 dose information other than what we conveyed?

9 BILL BEAL: I don't, well, given the fact
10 that I just reported a couple of data points to you that
11 seemed like you didn't have, but we don't have much more
12 than that.

13 MALE PARTICIPANT: Okay.

14 BILL BEAL: So all we have is what's been
15 coming out of the NISA reports plus the handful, you
16 know, the small handful of Ronald Reagan data. But I'm
17 not sure why you guys didn't get those two extra points.

18 JOHN LUBINSKI: Hey, I understand that DoE
19 had their airborne assets ready to deploy and stood down?

20 BILL BEAL: Yes, we've moved them forward
21 in case there's a request.

22 JOHN LUBINSKI: But there was no request?

23 BILL BEAL: Well, that's changing as we speak,
24 and I don't know if the formal request has come in yet,
25 but there's been some back and forth about a request.

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1 So that's TBD pending the request going up the chain
2 and coming back down, I think.

3 JOHN LUBINSKI: Wow.

4 BILL BEAL: But at the moment, and I don't
5 know if it's DoD or State Department that's asking for
6 it at the moment, but, NRC.

7 JOHN LUBINSKI: Oh, so I mean, you don't
8 know whether it's the Japanese, or?

9 BILL BEAL: Well, I guess what I'm not sure
10 of yet is, no, it's not the Japanese. This is coming,
11 I think it's mostly DoD, but I'm not sure whether DoD
12 is going through the State Department or, you know, doing
13 it themselves.

14 I need to have some conversations over here
15 before I (inaudible), but --

16 JOHN LUBINSKI: Yes, I got it.

17 BILL BEAL: In any case, it would be us going
18 over because our own folks are worried about going into
19 contaminated areas, et cetera.

20 JOHN LUBINSKI: Okay.

21 GREG CASTO: Wow.

22 BILL BEAL: And not Japanese areas. I mean,
23 this would be like bases or, you know, the Regan or anything,
24 I don't know. It's not clear yet. It's sort of still
25 developing.

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1 JOHN LUBINSKI: I didn't know you guys could
2 operate off an aircraft carrier.

3 BILL BEAL: I don't know about off an aircraft
4 carrier. I think they would just want us to fly over
5 it, but there's questions here as to whether there's
6 any value in that. I think there was a little
7 misunderstanding as to what their actual capability is,
8 you know.

9 They were kind of like, I think some of them
10 were expecting us to fly in active plume to, you know,
11 not quite understanding what the thing really does.

12 JOHN LUBINSKI: Okay, yes, well, get
13 contaminated if you fly in an active plume, I think.

14 BILL BEAL: Yes, exactly, exactly. Just
15 as they've learned.

16 JOHN LUBINSKI: I don't know, the sailors
17 with handheld meters are probably pretty effective
18 measure --

19 BILL BEAL: And that's exactly what we said
20 when they first asked, but the request is sort of morphing,
21 so.

22 JOHN LUBINSKI: Okay. But it's not a
23 Japanese request, I understand?

24 BILL BEAL: As far as I know, that is correct.

25 JOHN LUBINSKI: Okay. Hey, man.

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1 MALE PARTICIPANT: Thanks. We appreciate
2 it.

3 MALE PARTICIPANT: Okay, thank you.

4 BILL BEAL: Yes, same. Appreciate it.
5 Thanks a lot.

6 MALE PARTICIPANT: Thank you.

7 BILL BEAL: Bye.
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(CONFERENCE CALL INITIATED)

JOHN LUBINSKI: NRC, John Lubinski, may I help you?

TONY: Hey John, it's Tony calling.

JOHN LUBINSKI: Hey, Tony.

TONY: I just wanted to pass along, I'm faxing something over to the HOO's fax right now. NNSA was able to pull out some local rad survey data. And so I'm faxing it right now to you all, just wanted you to know it's coming.

JOHN LUBINSKI: Okay, great. Hey, you were going to be going off the clock and hitting the bed. You staying up, or are you going to bed?

TONY: Actually, Jim and I are just going to, you know, pull some rack time here in like three or four hour shifts, so we'll get some sleep.

JOHN LUBINSKI: Yes, (inaudible).

TONY: We're working that out, though, now we are.

JOHN LUBINSKI: Okay. Hey Tony, hold on one second. Tony, well, we are confused, like many others are. We had the understanding that the Unit 1 containment had been filled. Are we mistaken with that perception?

TONY: I don't have any information one way

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1 or the other on that. All we know, again, is that we
2 received a request from the US government, or from the
3 Japanese government, to help them get water into the
4 core and that's -- the best information we have is that
5 they have not had -- they have not been able to do seawater
6 filling since about 1:00 or 2:00 a.m. this morning local
7 Japanese time. And that's all we've got.

8 JOHN LUBINSKI: All right, but in the past
9 when they were filling, weren't they filling to the dry
10 well, too? Didn't they get --

11 TONY: Yes. Yes, I think they were filling
12 both, that's our understanding. But I haven't heard
13 anything about them having successfully filled the
14 containment units, is it one (inaudible)?

15 JOHN LUBINSKI: Well, I did say 1, but I
16 got that from the RST, so anyway, you have no such
17 information?

18 TONY: No, we haven't heard that from anybody,
19 so.

20 JOHN LUBINSKI: Okay.

21 TONY: And I would expect that, I guess I
22 would have expected that the Japanese would have pointed
23 that out to us today in our meeting.

24 JOHN LUBINSKI: Well, then we must be
25 incorrect.

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1 TONY: Okay. Well, as I said, I cannot
2 confirm or deny it, but --

3 JOHN LUBINSKI: No, thank you. Thank you
4 for your help.

5 TONY: The fax is done, so that'll be over
6 on the HOO's fax machine coming though right now, okay?

7 JOHN LUBINSKI: Thanks, man. Thanks.

8 TONY: All right, thanks.

9 JOHN LUBINSKI: Bye.

10 TONY: Bye.
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(CONFERENCE CALL INITIATED)

JOHN LUBINSKI: NRC, John Lubinski. May I help you?

BILL BEAL: Yessir, this is Bill Beal calling from Department of Energy NIT Ops.

JOHN LUBINSKI: Hey, Bill.

BILL BEAL: Hi. I got a response from the folks from Nav School, but there wasn't much more info than that.

JOHN LUBINSKI: Oh.

BILL BEAL: The only additional information we got was the times that some of the data were taken and text descriptions of the meters that were used. Unfortunately, no spectrum, but I'll send you along the two brief pages that I got if you want to give me an e-mail address to send it to.

JOHN LUBINSKI: E-mail address would be, let's see, I think, we used to give them, let me look here real quick. We had a standard, we were sending it in -- hold on one sec.

BILL BEAL: Okay.

JOHN LUBINSKI: I thought I'd written that down. It is HOO--

BILL BEAL: Oh, I'm sorry. Yes, we do have

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1 that address. The HOO HOC?

2 JOHN LUBINSKI: The HOO HOC? Yes.

3 BILL BEAL: Okay, we'll send it to that.

4 JOHN LUBINSKI: All right.

5 BILL BEAL: Yes, and it's not a whole lot,
6 but it's a little bit better than what we had.

7 JOHN LUBINSKI: Okay.

8 BILL BEAL: Well great, I'll send that along.

9 JOHN LUBINSKI: Thanks a lot.

10 BILL BEAL: Sure.

11 JOHN LUBINSKI: Okay, bye.

12 BILL BEAL: Bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Goodmorning, (inaudible)
Headquarters.

MIKE CASE: Good morning, may I speak to
Kathryn Brock, please?

MALE PARTICIPANT: Yes.

MIKE CASE: Thanks.

KATHRYN BROCK: Hey, how you doing? I'm
here. Who's calling?

MIKE CASE: Oh, good morning! Hi, Kathryn.

KATHRYN BROCK: I'm right here.

MIKE CASE: This is Mike Case.

KATHRYN BROCK: Mike Case, how you doing?

MIKE CASE: Good. You had called Brian or
Jennifer on something?

KATHRYN BROCK: Yes, one of the things the
ET wants us to do is to compare what we're getting on
our plots here to Chernobyl. And I understand that you
guys might have some information ready because you're
getting ready for the Chernobyl anniversary?

MIKE CASE: Ugh.

KATHRYN BROCK: Yes, ugh is right. Can you
help us?

MIKE CASE: Okay.

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1 KATHRYN BROCK: With some information.
2 Would you at least have some sound bites?

3 MIKE CASE: Okay. You're looking for
4 general information, or?

5 BRUCE (PHONETIC): Well they're going to
6 probably want some more detailed stuff when we collect
7 more data here to compare with what happened there.

8 KATHRYN BROCK: Yes.

9 BRUCE: We look for them to do that at this
10 point, but if there are some talking points that we can
11 use in the meantime, that would (inaudible).

12 KATHRYN BROCK: Okay, so all right, Bruce
13 and I are just talking here a little bit. So if there's,
14 could you go and see what you have?

15 MIKE CASE: Okay.

16 KATHRYN BROCK: And then we'll see how we
17 could use it. How about that?

18 MIKE CASE: Okay.

19 KATHRYN BROCK: So again, we're looking to
20 put some plots together, the wind's supposed to shift
21 towards Tokyo by tomorrow morning, and --

22 MIKE CASE: Are you all looking for dose
23 information or just general information on Chernobyl?

24 KATHRYN BROCK: I think dose information.

25 MIKE CASE: Okay. We'll try and push it

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1 more towards our dose locs.

2 BRUCE: Right.

3 KATHRYN BROCK: Yes, the consequence-type
4 things, you know?

5 MIKE CASE: Okay.

6 BRUCE: We have three reactors at various
7 stages of core melt sequence.

8 KATHRYN BROCK: Yes. So what we're doing
9 is, we're doing runs on all there and we're going to
10 try to get NARAC to help us combine it all.

11 MIKE CASE: Okay. Okay, let me poke around
12 and somebody will get back to you.

13 KATHRYN BROCK: Thank you.

14 MIKE CASE: Are you guys on the day shift?

15 BRUCE: Yes.

16 KATHRYN BROCK: Yes, we just got here.

17 MIKE CASE: Okay.

18 KATHRYN BROCK: Be here a while.

19 MIKE CASE: Very good.

20 KATHRYN BROCK: Thanks, Mike.

21 MIKE CASE: Okay, bye-bye.

22 KATHRYN BROCK: Bye.

23 BRUCE: Ciao.
24
25

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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 (PHONETIC): Good morning, this is Daniel. How can I help you?

KATHRYN BROCK: Hi, can we be patched into NIT? This is Kathy Brock calling from the Nuclear Regulatory Commission.

DANIEL: How do you spell your last name?

KATHRYN BROCK: B-R-O-C-K.

DANIEL: All right, Kathy, give me one minute.

KATHRYN BROCK: Thanks.

DANIEL: Kathy, you're now connected to the NIT.

KATHRYN BROCK: Thank you very much.

WARREN WOLITSKI (PHONETIC): Hi, this is Warren Wolitski (phonetic).

KATHRYN BROCK: Hi Warren, how you doing? This is Kathy Brock from NRC. I have a couple of other folks here, Bruce Watson and Prosanta Chowdhury. We just wanted to make a little connection with you because we started our shift and we just wanted to make a connection.

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1 WARREN WOLITSKI: Okay. I think I'm going
2 to have you talk to Rick, our scientist, so stand by
3 a second, okay, let me see if I can grab him.

4 KATHRYN BROCK: Thanks.

5 WARREN WOLITSKI: Okay.

6 KATHRYN BROCK: Who's Rick? Oh, that's
7 Naval Command.

8 BRUCE WATSON: That's Naval Reactor.

9 RICK MAURER: Hello, this is Rick Maurer
10 at the NIT.

11 KATHRYN BROCK: Hi, Rick, how you doing?
12 This is Kathy Brock from NRC.

13 RICK MAURER: Yes, hi.

14 BRUCE WATSON: We're the Protective Measures
15 team.

16 RICK MAURER: Okay, yes, I just took over
17 from Bill Beal and I'll be here for the day shift, until
18 7:00 PM.

19 KATHRYN BROCK: Okay. What was your last
20 name again, Rick?

21 RICK MAURER: Maurer, M-A-U-R-E-R.

22 KATHRYN BROCK: Okay, great.

23 RICK MAURER: First name, Rick. I'm the
24 NIT scientist for today.

25 KATHRYN BROCK: Very good. Yes, we just

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1 really wanted to call and make a connection, because
2 we're the day shift, too.

3 RICK MAURER: Okay. Let me make sure I have
4 the number for you guys. What is it?

5 KATHRYN BROCK: 301-816-5419.

6 RICK MAURER: Okay, and let's see, what are
7 you guys working on?

8 BRUCE WATSON: Right now we are, we set up
9 our computer monitoring to look at Unit 1 and 3. We're
10 in the process of setting it up to look at Unit 2. Since
11 now we have the third casualty. And so that's pretty
12 much what we're doing right now.

13 We're taking a look at some of the site data
14 that arrived overnight and trying to confirm what we
15 know and what we've been told.

16 RICK MAURER: Okay, are you looking at the
17 plots that are coming that had the site boundary monitoring
18 stations? Is that what you're looking at?

19 BRUCE WATSON: Yes.

20 RICK MAURER: Okay. Can you tell on those,
21 at least the map, the ones that have the mapped layouts,
22 are those numbers, I mean, they look like background
23 numbers, but are they reference numbers or are they actual
24 numbers? Do you have a, do you know?

25 BRUCE WATSON: It looks like to me they did

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1 some surveys north and south of the plant and around
2 the plant. And they're all in microsieverts per hour.

3 And so the numbers direct due south of the plant and
4 directly north of the plant appear to be background
5 numbers.

6 And then some of the elevated ones are to
7 the east, or they call it the dam, or something, which
8 I think is their breakwater. And that's the prevailing
9 wind direction right now, so that's where we'd expect
10 to see some elevated readings.

11 But they're not really that high, but I mean,
12 they're there.

13 RICK MAURER: I'm just wondering, they have,
14 I don't know if you're looking at the same facts, but,
15 you know, it has MP1, MP2, and so forth (inaudible).

16 BRUCE WATSON: Right. We have various hours
17 of time, so. So MP1, MP2, are all six monitoring stations.

18 RICK MAURER: Oh, okay, and then you've got
19 the (inaudible) --

20 BRUCE WATSON: The reactors are on the right
21 towards the water.

22 RICK MAURER: Right, okay. Okay.

23 BRUCE WATSON: Okay? And so those six
24 monitoring stations, we've seen a little bit of activity,
25 raised elevation data from them over the last couple

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1 of days, but they've been really reasonably low.

2 And then most of the higher dose rate stuff
3 has been to the east. But those are their six monitoring
4 stations, the MP1 through 8.

5 RICK MAURER: Right.

6 BRUCE WATSON: Okay?

7 RICK MAURER: Okay, do you, okay, you say
8 going to the east, --

9 BRUCE WATSON: Towards the water.

10 RICK MAURER: Is there any stations on that
11 side?

12 BRUCE WATSON: No.

13 RICK MAURER: Okay.

14 KATHRYN BROCK: Not fixed stations.

15 BRUCE WATSON: Yes, and the met tower is
16 between, there's the 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 (inaudible) in
19 between 5 and 6 and 1 and 2.

20 RICK MAURER: Okay.

21 KATHRYN BROCK: Looks like two kilometers
22 away.

23 RICK MAURER: Oh, okay, I see that. And
24 also, are you monitoring the wind changes, or?

25 KATHRYN BROCK: Yes, we're getting some met

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1 data from you guys.

2 BRUCE WATSON: We're getting it from NARAC
3 and --

4 RICK MAURER: Okay.

5 MALE PARTICIPANT: One of the things we've
6 been doing is, we're trying to be consistent with the
7 met data so, you know, if you will, remind NARAC to keep
8 us updated every few hours on the met and the forecast.

9 RICK MAURER: Okay.

10 MALE PARTICIPANT: 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.

14 But sometime probably tomorrow afternoon,
15 we're expecting a wind shift with this front going though --

16 KATHRYN BROCK: I think it's tomorrow
17 morning.

18 MALE PARTICIPANT: Tomorrow? Yes. It will
19 be turning from blowing offshore to coming from the north,
20 northeast and heading south. And so our management,
21 and of course we're concerned about having the luck of
22 the Irish here with the plume blowing off into the ocean,
23 depending what happens with these other three reactors,
24 you know, what kind of consequences we have from not
25 only the potential airborne, but the deposition from

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1 any releases over that time period, since it's now over
2 land.

3 So it's really critical that they keep us
4 up to date on the weather and the forecast. So if you
5 could continue to communicate that to NARAC, we would
6 appreciate it.

7 RICK MAURER: Okay. How are they sending
8 you the weather data?

9 MALE PARTICIPANT: They normally send it
10 either an e-mail and a fax.

11 RICK MAURER: Okay, e-mail and fax. All
12 right. (Inaudible)

13 MALE PARTICIPANT: should be one at
14 (inaudible), too. Okay? Any questions?

15 RICK MAURER: Are you getting the NOAA
16 weather models?

17 MALE PARTICIPANT: Yes, we also get the --

18 RICK MAURER: (Inaudible) split model?

19 MALE PARTICIPANT: Yes.

20 RICK MAURER: Okay.

21 BRUCE WATSON: And we also get the IAEA,
22 we've previously got them from Beijing, China, from
23 Melbourne, Australia, and from the Russians.

24 RICK MAURER: Oh, okay.

25 BRUCE WATSON: We even got an e-mail

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1 yesterday or Saturday saying, (b)(5)

2 (b)(5)

3 RICK MAURER: Okay. I understand.

4 BRUCE WATSON: But we don't know where that
5 came from, so.

6 KATHRYN BROCK: Very good.

7 BRUCE WATSON: Okay?

8 RICK MAURER: All right, I appreciate the
9 update and we'll let you know if anything comes up.

10 BRUCE WATSON: All right, well feel free
11 to call if you have any questions.

12 RICK MAURER: Okay. Thank you.

13 BRUCE WATSON: All right?

14 KATHRYN BROCK: Thank you. Bye.

15 RICK MAURER: Bye.

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(CONFERENCE CALL INITIATED)

BRUCE WATSON: Hi, this is the NRC Headquarters, Emergency Operations center and this is the Protective Measures Team. This is Bruce Watson speaking.

RICK MAURER: Yes, this is Rick Maurer over at the DoE NIT.

BRUCE WATSON: Yes, Rick, how are you doing?

RICK MAURER: Okay. I think I talked to you a little while ago?

BRUCE WATSON: Yes.

RICK MAURER: We're going to have a conference call at 11:00 o'clock Eastern Time with the Consequence Manager Home Team and the NARAC group and wanted to see if you guys could join in on it?

BRUCE WATSON: Okay.

RICK MAURER: Do you have access to the bridge line?

BRUCE WATSON: Just go ahead and repeat the number.

RICK MAURER: Okay, it's 877-336-1274. And the access code is (b)(6) followed by a pound sign.

BRUCE WATSON: Okay. Let me repeat it back to you. That would be 877-336-1274 and the access code

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1 is (b)(6) pound?

2 RICK MAURER: That's correct. It was 877,
3 that what you got at the beginning?

4 BRUCE WATSON: Yes, 877.

5 RICK MAURER: Okay. Yes, what we're going
6 to do, we're going to start having regular conference
7 calls, probably every couple hours. But the first one
8 will be at 11:00 Eastern Time and we're going to talk
9 about what the, what should the NARAC team be modeling
10 now they're doing a hundred percent core damage.

11 And going to have some more discussions on
12 that. I think they're going to start producing plots
13 about every six hours.

14 BRUCE WATSON: And they're, okay, and are
15 they doing this just for Unit 1 or Unit 2 or Unit 3?

16 RICK MAURER: All three.

17 BRUCE WATSON: All three? Okay.

18 RICK MAURER: One, two, and three.

19 BRUCE WATSON: Okay, 100 percent?

20 RICK MAURER: Right.

21 MALE PARTICIPANT: Hundred percent what?

22 BRUCE WATSON: Core damage.

23 MALE PARTICIPANT: Okay.

24 BRUCE WATSON: That's a good start. We can
25 back off as we get actual data.

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1 RICKMAURER: Okay. You know, we can monitor
2 100 percent core damage, but it's really, the release
3 rate that we set up is going to determine the impact.
4 The leak rate, you know, we've been using a variable
5 low-level release rate. That's going to really determine
6 how far out it goes.

7 BRUCE WATSON: Right.

8 RICK MAURER: Okay, so if you can call in
9 at 11:00, and what was your name again?

10 BRUCE WATSON: This is Bruce Watson.

11 RICK MAURER: Okay, if for some reason you
12 have trouble connecting, just call back here to NIT Ops
13 and we'll help where we can. But 11:00 o'clock Eastern
14 time.

15 BRUCE WATSON: Okay. Thank you, Rick.

16 RICK MAURER: All right, sounds good. Thank
17 you.

18 BRUCE WATSON: Yes. Okay, thanks.
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I'm telling you, it's just basic design,

BRUCE WATSON: Hello, this is the NRC Emergency Operations Center, Protective Measures Team.

MIKE SCOTT: Hi, this is Mike Scott in Research trying to reach Kathryn Brock.

BRUCE WATSON: She's in a briefing with Marty Virgilio, the ET.

MIKE SCOTT: Can you ask her please, when she is done with that, to call me regarding her request for Chernobyl dose information?

BRUCE WATSON: Right. And your name, again?

MIKE SCOTT: Mike Scott.

BRUCE WATSON: Okay.

MIKE SCOTT: Actually, let me give you another name. Doris Lewis.

BRUCE WATSON: Yes, I know Doris.

MIKE SCOTT: And Doris's phone number is --

MALE PARTICIPANT: (b)(6)

BRUCE WATSON: (b)(6)

MALE PARTICIPANT: (b)(6)

BRUCE WATSON: Okay. What we were asked to do is, in a nutshell, was compare the releases from

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1 the current situation with the Japanese units to Chernobyl
2 doses that occurred from that accident.

3 And so we're interested in you guys collecting
4 the information so that when we do develop the information
5 here, we can provide it to you and someone can do a
6 comparison.

7 MIKE SCOTT: Sure. Are you looking for us
8 to provide you something in writing at this point?

9 BRUCE WATSON: Not at this point. But
10 collect the data so that when we do collect the data
11 from the actual event here, we'll make it available so
12 that comparison can be made by you guys and hopefully
13 we'll still be combating the issues here.

14 MIKE SCOTT: Okay, so you're looking at, the
15 report back that you want from us is that we have obtained
16 some information or do you want any report back at all?
17 How do you want to go --

18 BRUCE WATSON: At this point, I would say
19 task, when it's collected, this looks like it's going
20 to go on for quite awhile. As you compile it, let us
21 know what you have available, and we'll ask if we want
22 it.

23 MIKE SCOTT: Okay, all right.

24 BRUCE WATSON: Okay? I mean, we got three
25 units we're trying to monitor and evaluate here at the

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1 same time, so.

2 MIKE SCOTT: Yes, with a very limited amount
3 of information.

4 BRUCE WATSON: Yes.

5 MIKE SCOTT: Okay, well we'll get back to
6 you. And I guess I don't need a call back from Kathryn
7 if that's the matter she was looking to --

8 BRUCE WATSON: I'll pass Doris, I'll pass
9 her name on and this is Bruce Watson, we're, you know,
10 working our way through what we can.

11 MIKE SCOTT: Okay. We'll get back to you.

12 BRUCE WATSON: Thank you.

13 MIKE SCOTT: Bye-bye.

14 BRUCE WATSON: Hi, this is the NRC Operations
15 Center, this is the Protective Measures Team.

16 DAVE YOUNG: Hi, this is Dave Young over
17 at DoE in NIT Ops.

18 BRUCE WATSON: Who is this?

19 DAVE YOUNG: Dave Young.

20 BRUCE WATSON: Dave Young?

21 DAVE YOUNG: Hey, we wanted to get someone
22 on a conference call of NARAC and DoE Naval Reactors --

23 BRUCE WATSON: Yes, Rick, I think his name
24 is Maurer, just called us. At 11:00 o'clock we plan
25 to have the call?

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1 DAVE YOUNG: At 10:00 o'clock?

2 BRUCE WATSON: Eleven o'clock.

3 DAVE YOUNG: Well we're doing a separate
4 conference call in about seven minutes for with NARAC
5 and with DoE Naval Reactors. We would like to have you
6 guys on there.

7 BRUCE WATSON: Okay. Can you give us a call
8 in number?

9 DAVE YOUNG: Call in number is 202-245-2099.

10 BRUCE WATSON: Please slow down and repeat.

11 DAVE YOUNG: 202-245-2099. PIN number is

12 (b)(6)

13 BRUCE WATSON: All right. This will be a
14 conference call with DoE Operations?

15 DAVE YOUNG: Yes.

16 BRUCE WATSON: Are you part of the NIT?

17 DAVE YOUNG: Yes I am.

18 BRUCE WATSON: Okay. And with Naval
19 Reactors?

20 DAVE YOUNG: Yes.

21 BRUCE WATSON: And the number to call in
22 at 10:00 AM, which is in a few minutes will be area code
23 202-245-2099, and the PIN number is (b)(6) I assume pound
24 at the end?

25 DAVE YOUNG: No pound required.

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1 BRUCE WATSON: Okay.

2 DAVE YOUNG: And if it doesn't patch you
3 through right away, press pound. I don't believe pound
4 is required.

5 BRUCE WATSON: Okay. Well, we're on a call
6 now with some international folks, so hopefully we'll
7 be calling in on time.

8 DAVE YOUNG: All right, thank you very much.

9 BRUCE WATSON: Okay. And your name again
10 was Dave Young, right?

11 DAVE YOUNG: Yes.

12 BRUCE WATSON: All right, thank you.

13 DAVE YOUNG: All right. Thank you. Bye.
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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.

BRUCE WATSON: NRC, this is Bruce Watson.

OPERATOR: Thank you.

MALE PARTICIPANT: Well we'll put you guys on mute until they hop on.

BRUCE WATSON: Hello, this is Bruce Watson, NRC.

MICHAEL (PHONETIC): (Inaudible) Bruce, this is Lukas McMichael with Naval Reactors, (inaudible) with --

MALE PARTICIPANT: Okay, we have a number of conference calls going on here, so I'm going to try and just speak into the phone here. We have some international calls and there's an executive briefing going to, too, so.

JOHN NAASTROM: Okay, John Naastrom from NARAC, I'm here.

MALE PARTICIPANT: Okay. John.

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1 JOHN NAASTROM: Thank you.

2 MALE PARTICIPANT: All right, so we got
3 everyone on the call, so (inaudible) Dave Bowman talked
4 to you a little bit earlier, and there was, we have a
5 discussion on what, exactly, do we want to model for
6 the effective power plan?

7 MALE PARTICIPANT: Correct.

8 MALE PARTICIPANT: So how much core damage
9 do we want, and what the pressure release rate is. So
10 we have NRC on the line just to kind of have another
11 agency to kind of buy off on what we're thinking.

12 So what exactly do you want, Lukas?

13 LUKAS MCMICHAEL: Overall goal, I think,
14 is roughly in line with what you've already received
15 a tasking for, but ultimately it's all three reactors
16 having issues and getting contour lines and rem per hour
17 at various distances from essentially now, 24 hours into
18 the future.

19 I think at the end of the day, we're looking
20 at, you know, trying to understand gamma dose rates and
21 thyroid dose rates at distances for the foreseeable future,
22 for the next 24 hours.

23 And so really, the discussion is, what
24 parameters do we use to start it and what do the reporting
25 products look like that can meet both of our needs?

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1 BRUCE WATSON: I can tell you what we're
2 going to be doing here. This is Bruce Watson with the
3 NRC. We're basically modeling Units 1, 2, and 3 for
4 a TMI-type core melt situation, which would be 40 percent
5 of the core.

6 Because we have variable reports on foreign
7 (indiscernible, possibly "recovery"), water back end,
8 et cetera, et cetera. Right now we're going to model
9 them with the design leaked rate for the containment
10 basically being intact, which is about a half a percent
11 per day leakage.

12 And then if we get any data that would
13 substantiate any different release rate, then we'll look
14 at that data. So that's preliminary what we're doing.
15 We're doing a run, we're modeling each individual reactor
16 and then we'll have to do some kind of summation if we
17 have all three of them go at one time.

18 Okay? We suspect that we do have some core
19 damage in a variable degree in each one of the units.

20 And we just don't know what it is right now and as we
21 try and get more data out of them, we'll be, you know,
22 we'll be adjusting things.

23 Our intent is to do the three models and
24 then send them to you, make a source term, is that correct?

25 LOU BRANDON: Yes. This is Lou Brandon.

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1 Who are we speaking with here?

2 LUKAS MCMICHAEL: This is Lukas McMichael
3 and Jerry (phonetic) Lee Smith at Naval Reactors.

4 JOHN NAASTROM: And John Naastrom from NARAC.
5 Hi, Lou.

6 LOU BRANDON: Hi, John.

7 DAVE YOUNG: Dave Young and Rick Maurer from
8 DoE NIT Ops.

9 LOU BRANDON: Okay, good, so that helps.
10 What we're doing here is, we're basically controlling
11 the impact with our leak rate. And the design leak rate
12 is very low. So we can send you a RASCAL run for units
13 1, 2, and 3, but it's got quite a thin control on it.

14 So if you're trying to increase the impact
15 and do a projection that shows a little bit more out
16 there, a hundred percent versus 40 percent core melt,
17 it's not going to do much. It's how much --

18 MALE PARTICIPANT: (Inaudible) the release
19 rate?

20 LOU BRANDON: Yes. So we need to be --

21 JOHN NAASTROM: This is John. What kind
22 of a release period do you think it'll end up being in
23 the office when it comes in? How long a release run?

24 LOU BRANDON: Right now we're doing a core
25 uncovered scenario, so basically from the 13th at 1430

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1 Japan time when the core was first uncovered, it's a
2 constant release at a low rate. So --

3 LUKAS MCMICHAEL: I have a question. The
4 NRC, Bruce, you mentioned the model that you're generating,
5 now are you working on source term or are you working
6 on your own, I mean, how do you link in with NARAC with
7 your models?

8 LOU BRANDON: I'll answer that question.
9 This is Lou. We're running a RASCAL model, and so we
10 get the dose projections and the impact plots, but in
11 the process, we generate a source term of all the activity
12 based on how long the core's been uncovered.

13 So then we e-mail that to NARAC and they
14 use either all of it or they use parts of it based on
15 those radio nuclides that are going to give you the big
16 bang for your --

17 BRUCE WATSON: What we did on Friday or
18 Saturday was identify that the NARAC model was having
19 some issues and slowing down if they included all the
20 suite of nuclides, so we selected the key ones that would
21 be the dose contributor, then deposition contributor
22 that would be of real interest to us so that they could
23 run a little quicker, their modeling.

24 And we generated the source term and we
25 assumed certain release rates, which I think we've already

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1 described as right now we're using designed. And if
2 we do get information on anything more specific, we'll
3 plug it into the model.

4 Or if we get field data --

5 LOU BRANDON: We do have some field data.

6 So we can --

7 BRUCE WATSON: -- we can back --

8 LOU BRANDON: -- scale our model --

9 BRUCE WATSON: -- into what we think the
10 release rate is.

11 MALE PARTICIPANT: And has that scaling been
12 effective so far? Have you (inaudible) --

13 LOU BRANDON: I'm just getting back into
14 the --

15 BRUCE WATSON: I would say it's very limited
16 because the data is not what we would call time-sensitive,
17 and also, we don't know the exact location because
18 everything's blowing out over the water right now.

19 LOU BRANDON: Their monitor stations are
20 to the west now (inaudible) --

21 BRUCE WATSON: And all their monitors, six
22 monitoring stations --

23 MALE PARTICIPANT: -- we did do, we did scale
24 the emission rate based on some limited data, but that
25 was a very different scenario. Now we're talking about,

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1 you know, 40 percent core melt and more reactors, so.

2 BRUCE WATSON: Yes, that's what I said, we
3 decided that we have all those what-if projections we
4 had made Friday and Saturday. We can always go back
5 and use them as a reference, but we're trying to focus
6 on what's really happening now.

7 And then our real concern is that sometime
8 today or tonight, the winds are going to shift to, if
9 this front comes through, instead of shifting and being
10 from the southwest and going to the northeast, the winds
11 are supposed to switch around to come from the north
12 and even possibly from the northeast, which would then
13 push this potential release path over land areas towards
14 Tokyo.

15 And so that's one of our main concerns is
16 keeping current met data and trying to get good release
17 data so that we can assess that potential for the population
18 doses and the ground deposition.

19 MALE PARTICIPANT: when do you have release
20 starting? What's your start time with releases?

21 LOU BRANDON: The start time right now is
22 13, the 13th at 1425.

23 MALE PARTICIPANT: 1425? So you're
24 starting with Reactor 1, or Unit 1, I should say?

25 LOU BRANDON: When it first became uncovered,

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1 yes, that's the, what we're using for the first unit
2 releasetime. And we can change that for the other reactors,
3 but we have to, I have to identify what that time --

4 MALE PARTICIPANT: Yes, we're going back
5 and researching that a little bit.

6 MALE PARTICIPANT: Sounds like you're going
7 to have different release times for the different units,
8 then.

9 MALE PARTICIPANT: They may be different
10 because they're all different situations.

11 MALE PARTICIPANT: What kind of a release
12 duration (inaudible)?

13 MALE PARTICIPANT: Okay, there are some
14 options here for different ways to model this. We can
15 put in a generic reactor, increase the amount of fuel
16 rods, increase the power rating, and try to simulate
17 one reactor as trying to make one to represent the three.

18 I don't know if that's the best approach
19 or not.

20 MALE PARTICIPANT: We don't really like that
21 one because then we don't know what's going on at each
22 one.

23 MALE PARTICIPANT: All right. So we can
24 continue to characterize each of the units, and as we
25 do that, send those results to NARAC. Is that the best

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1 plan, John?

2 JOHN NAASTROM: Anything you guys, given
3 the high uncertainty in all this stuff, anything you
4 can do to simplify, do what you think is right, but I
5 think with one generic representative release rate, given
6 all the uncertainty it creates, you know, if it would
7 work for all the units, that would make our life a lot
8 easier.

9 MALE PARTICIPANT: it would simplify your
10 life at that end.

11 JOHN NAASTROM: Yes.

12 MALE PARTICIPANT: If we (inaudible) a
13 release duration, we'll make sure we pass that on to
14 you.

15 JOHN NAASTROM: (Inaudible) the kind of gut
16 feeling I think you were using 12 ours, originally?

17 MALE PARTICIPANT: Yes, originally, we're
18 hoping that they can do some more controlled releases
19 with, like they did with the venting, but we don't know
20 that they have that opportunity or ability at this time.

21 JOHN NAASTROM: Right.

22 LUKAS MCMICHAEL: What would be helpful for
23 us, what we're looking for, again, this is Lukas at Naval
24 Reactors, is, we're looking for a very, very simplified
25 approach. We recognize that there is a huge amount of

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1 uncertainty and a lot of variables.

2 And we have an overall philosophy of, we
3 kind of just fudge all that up by rounding up, you know,
4 order of magnitude.

5 MALE PARTICIPANT: Yes, we like RAD CON maps,
6 too.

7 LUKAS MCMICHAEL: Exactly. And so what
8 we're striving here, you know, one unit versus three
9 units, whatever's easy, whatever's quick, we need it,
10 too.

11 MALE PARTICIPANT: Okay, yes, we're trying
12 to get some people in here who can do some simplified
13 additions of the plume and give us one picture.

14 LUKAS MCMICHAEL: Okay.

15 MALE PARTICIPANT: so that's what we're
16 shooting for.

17 LUKAS MCMICHAEL: Maybe a good way to deal
18 with this is, could NARAC, could you type up the short
19 list of (inaudible) on what you're assuming for source
20 term and release and time frame, just the basic parameters,
21 and then what the output would look like?

22 It's probably easier to have the bullet points
23 of, hey, these are the assumptions, and then we just
24 all agree on them, even if we need to get back on a conference
25 call and just run through the list of, this is the megawatt

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1 rating, this is the shut down time, one reactor versus
2 three reactors.

3 MALE PARTICIPANT: That's a good idea.

4 LUKAS MCMICHAEL: And you know, millirem
5 (inaudible) --

6 JOHN NAASTROM: This is John in NARAC. What
7 I'm assuming we are going to do is, after we get information
8 from the NRC, we'll put together what our source term
9 assumptions will be and review them with you, is that
10 what you're saying?

11 LUKAS MCMICHAEL: Yes, if you're relying
12 on the NRC for the source term part, but you still have,
13 well, I guess the shut down time, et cetera. NRC, how
14 far along are you on generating this revised source term?

15 It sounds like you're trying to get a much
16 more accurate picture, which is understandable, but maybe
17 not necessarily what we need.

18 LOU BRANDON: Yes. We're at the point where
19 we could send a new result for Units 1, 2, and 3 within
20 the next hour, but it's not going to change much by going
21 from 40 percent fuel melt to 100 percent fuel melt.

22 BRUCE WATSON: Because we're assuming the
23 containment is intact, so.

24 LUKAS MCMICHAEL: And that's fine, I'm not,
25 40 versus a hundred, if leak rate is controlling, then

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1 fine, we'll make the assumption that we'll just control
2 by leak rate and live with that.

3 But shut down time, what you're assuming,
4 how you're assuming it, let's just get it on paper and
5 agree to it and get it done.

6 LOU BRANDON: Okay. When we say the RASCAL
7 results, it has a case summary. So we can e-mail that
8 RASCAL source, I mean, the RASCAL result to you if you
9 can. We can also give you a download link so you can
10 open up the RACAL program and run it.

11 It summarizes everything that's in there.

12 LUKAS MCMICHAEL: The e-mail is probably
13 easier because the (inaudible) issue. Go ahead.

14 MALE PARTICIPANT: The what?

15 MALE PARTICIPANT: What was the, hundred
16 percent of core melt versus the 40 percent? Is that
17 what we're saying?

18 LOU BRANDON: All I'm saying is, the impact
19 is being controlled by the release rate, not the amount
20 of fuel damage right now.

21 LUKAS MCMICHAEL: Right, understand.

22 BRUCE WATSON: We're going to run our model
23 at 40 percent, which is kind of like what TMI was. Okay?

24 MALE PARTICIPANT: Let's stick with the 40
25 percent if possible.

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1 LEE SMITH: It's Mr. Smith at Naval reactors.

2 Did you say that you guys did some modeling based on
3 the early data we had from the Ronald Reagan?

4 MALE PARTICIPANT: NARAC did.

5 LEE SMITH: Okay.

6 MALE PARTICIPANT: And that actually was
7 basically, you know, scaling from the emission rate just
8 to match the measurements. That wasn't based on any
9 assumptions about the core melt or any actual (inaudible)
10 plant conditions, just scaling to measurements.

11 LEE SMITH: All right, so from a release
12 rate, is there a way that we can keep that release rate
13 constant and scale it based on (inaudible)?

14 MALE PARTICIPANT: Yes. We believe that
15 the cloud, or the puff that you saw at your readings
16 from the Reagan were the result of the venting the previous
17 day, and it was all long-lived, pretty much long-lived
18 noble gasses at that point.

19 Now I understand you've got some other data
20 that shows some particulates from some of the aircraft
21 flying through stuff, but we think that was the release
22 from the day before, which was kind of like, maybe an
23 hour or two.

24 We don't know how long it really was. So
25 we think that's what that was. So it wasn't --

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1 MALE PARTICIPANT: Right. Part of our
2 assumptions are that they're going to continue to have
3 releases.

4 MALE PARTICIPANT: Right, and we were hoping
5 we'd get some time and some actual data that we could
6 say what the source term is from the venting, but we
7 don't know that we're going to get that.

8 MALE PARTICIPANT: Right. Part of our
9 charter is to help generate protective guidelines for
10 folks that are closely approaching these reactor plants.
11 So in order to do that, we're going to have to make
12 some assumptions regarding something greater than the
13 design leak rate.

14 MALE PARTICIPANT: Okay, I think that's very
15 (inaudible) --

16 MALE PARTICIPANT: And that's what we were
17 trying to do yesterday.

18 MALE PARTICIPANT: -- and right on target,
19 yes.

20 MALE PARTICIPANT: So when you say something
21 greater than a design leak release rate, is that more
22 than what you were saying, Lou, about 40 percent core
23 melt and design?

24 LOU BRANDON: Well, I think 40 percent core
25 melt is probably good to represent the situation until

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1 we know more about the actual damage. And what we need
2 to do is scale the output to match what we know is out
3 there.

4 MALE PARTICIPANT: Right, so if we use the
5 leak rate that was calculated based on, albeit minimal
6 data we had, and consider that to be, you know, our starting
7 point.

8 MALE PARTICIPANT: Yes, that's good. So
9 if I ask that question to John Naastrom, can you put
10 it in terms we could model, John?

11 JOHN NAASTROM: No, I don't think so. Just
12 because the data was so spotty. I'll just tell you what
13 we assume.

14 MALE PARTICIPANT: Yes, I agree with John.

15 JOHN NAASTROM: We assumed, when we scaled
16 the measurements, we got, we were using the three marker
17 isotopes to represent everything. And we had Xenon-133,
18 I think it was 500 curies per second. Cesium-137, about
19 5 curies per second. Iodine-131, of .5 curies per second,
20 and I'll have to confirm that. That's just from memory.

21 MALE PARTICIPANT: Okay, that sounds good.

22 JOHN NAASTROM: Okay, so that was to match,
23 give some reasonable match to the Ronald Reagan, initial
24 Ronald Reagan data. So what we were starting on today
25 until, you know, we can exchange this and use the new

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1 information, but just so you know, what I started people
2 doing was using that, those emission rates and those
3 are, you know, those are probably maybe low compared
4 to what you'll get. I'm not sure.

5 MALE PARTICIPANT: Yes, but the other part
6 is, we don't know how long they did release.

7 JOHN NAASTROM: Right. What I have people
8 starting on today is, just to get something going, is
9 to use that same release rate just using current weather
10 and predict the dose rate to give you some situational
11 conditions of what's going to happen, what's happening
12 now with current weather.

13 Even if the release rates are wrong, at least
14 you'll have some (inaudible) --

15 MALE PARTICIPANT: Yes, you have something
16 you can (inaudible) to.

17 LEE SMITH: I think that's exactly what we
18 need and we need to understand, you know, for tomorrow
19 on Japan time, what the predictions will be for cloud
20 locations and distances from the plant, and what rad
21 levels for the cloud are going to be, .1 mile, one mile,
22 one mile, five, ten, 50 miles from, so we can make an
23 assessment on protective actions for people being sent
24 in.

25 And I need to get to that point where I can

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1 put maps in people's hands by 6:00 AM their time, which
2 means we got a little under seven hours.

3 MALE PARTICIPANT: Seven hours, okay, that's
4 up. So we'll use --

5 MALE PARTICIPANT: And who is that speaking
6 again? I just want to make sure I have everybody's name.

7 LEE SMITH: This is Lee Smith from Naval
8 Reactors.

9 MALE PARTICIPANT: And backing up, we
10 probably need to compress that a little bit, because
11 there's going to be some (inaudible) that go around back
12 and forth about assumptions and understanding what those
13 maps mean.

14 So I think --

15 MALE PARTICIPANT: Say three hours from now?

16 MALE PARTICIPANT: Say four.

17 LEE SMITH: We need to have, you know, the
18 product in probably four, and then we'll have to digest
19 it and there might be some go back and forth to make
20 sure we understand the information so we have something
21 we agree to put in people's hands for use by 6:00 AM
22 their time.

23 MALE PARTICIPANT: Okay, I have a question
24 for John Naastrom.

25 JOHN NAASTROM: Yes?

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1 MALE PARTICIPANT: Yesterday, what I heard,
2 John, was that they did a air sample and they measured
3 1.4 times 10 to the minus 9th microcuries per milliliter
4 for particulates and that that would potentially translate
5 to a 1 times 10 to the minus 9th microcuries per milliliter
6 for iodine.

7 What I heard you say with these three radio
8 nuclides is that you back calculated and those would
9 represent the magnitude of the release to get to what
10 they were measuring on the naval reactor, is that correct?

11 JOHN NAASTROM: Something like that, yes.

12 I think where we actually, we actually used mainly the
13 initial dose rate and the particulate air concentration
14 measurement. And then we actually used, there was some
15 isotopic analysis that we actually did use the isotopic
16 analysis probably from just a few samples, to do the
17 mix.

18 MALE PARTICIPANT: Okay.

19 JOHN NAASTROM: I don't know exactly what
20 measurement we used, but again, it was just a handful
21 of measurements and there was some measurement that gave
22 us a mix and that's how we came up with the relative
23 release rate for the different isotopes.

24 MALE PARTICIPANT: Okay, so those release
25 rates you just gave to us are representative of (inaudible)

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1 would have measured that at a hundred miles out, is that
2 correct?

3 JOHN NAASTROM: Right, exactly. And so
4 that's (inaudible) for us to go on. So I guess, you
5 know, if we use those release rates, that'll probably
6 be the most expeditious way to get out the predictions
7 in the timeframe that you're asking.

8 I know DoE, I talked to DoE earlier, Dave
9 Bowman, you know, they are very interested in also the
10 worst case impact, you know, of all three reactors that
11 you guys were talking about earlier.

12 So I guess, you know, I needed to determine
13 an overall priority. I would, it's going to be faster.
14 Much faster for us to get out this initial calculation
15 using those release rates that we've already used.

16 And then I think we can work on, you know,
17 the NRC getting us more detailed source terms using the
18 40 percent core melt case and work on that as a number
19 two priority. Is that okay with everybody?

20 LOU BRANDON: We at NRC can use the 40 percent
21 core melt, but we can scale the release rate to match
22 these release rates for these particular radio nuclides
23 and we can give you a much better projection based on
24 that.

25 And then we'll continue to refine this and

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1 tie in any other hard data that we can get to further
2 refine these, but we can have some runs ready to pass
3 to you in an hour or something.

4 BRUCE WATSON: Yes, our goal will have to
5 have something to you by noon Eastern Time, and that
6 way we have a little time to digest it and get it to
7 Naval Reactors with some reasonable explanation of what
8 it means.

9 LUKAS MCMICHAEL: Yes, and could we still
10 do the short type up, the bullet points of what the major
11 assumptions are?

12 BRUCE WATSON: We can do that in the cover
13 e-mail. That's what we did before.

14 LOU BRANDON: Do we have their e-mail
15 address?

16 LUKAS MCMICHAEL: I don't care what the
17 product looks like.

18 BRUCE WATSON: I'm sure we do, don't we?
19 We have your e-mail address, right?

20 LOU BRANDON: We can e-mail you a RASCAL
21 case summary.

22 LUKAS MCMICHAEL: Well I'll just provide
23 it right now to make it easy.

24 BRUCE WATSON: Okay.

25 LUKAS MCMICHAEL: it's

(b)(6)

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(b)(6)

JOHN NAASTROM: So Lou, are you going to put out RASCAL plume projections as well as the source term or not?

LOUBRANDON: Yes. We will run RASCAL, we'll send you the RASCAL result, which will include the plume projections. And then we'll send you the CSV file, which will give you the source.

JOHN NAASTROM: Okay.

JOHN NAASTROM: And what are you going to use for that? Is that the one that we've been sending you?

LOU BRANDON: Yes, it is.

JOHN NAASTROM: Lou?

LOU BRANDON: It is.

JOHN NAASTROM: Okay, so just so you know, we're updating our weather forecast model, so we'll use the latest one we have. I think you guys have the latest one we did (inaudible) --

BRUCE WATSON: Yes, but it's important to keep us up to date on those so that we can really take care of this wind shift.

JOHN NAASTROM: Yes, absolutely, that's in our procedures. So obviously we're all scrambling to do 10 things at once, but that's definitely, we've tried

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1 to streamline that process so we can do that (inaudible) --

2 MALE PARTICIPANT: Okay. We have one more
3 question. We had a, I believe a Dave Young from DoE
4 Operations at the NIT. He wanted to have, on the call
5 at 11:00 o'clock, I guess to discuss, I think the similar
6 things?

7 MALE PARTICIPANT: Is all of that with the
8 Cm home team?

9 MALE PARTICIPANT: Yes, that's still on.

10 MALE PARTICIPANT: Okay, well we'll --

11 MALE PARTICIPANT: We've got to go to work
12 here.

13 MALE PARTICIPANT: We're going to go to work
14 and we'll have someone call in.

15 MALE PARTICIPANT: Okay, that'd be great.

16 MALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: All right.

18 MALE PARTICIPANT: So Dave, as far as the
19 NIT goes, you'll relay kind of what's going on to Dave
20 Bowman I assume.

21 DAVE YOUNG: Hi, so --

22 MALE PARTICIPANT: If you could just let
23 everybody know, he was very interested in kind of the
24 worst case, everything goes, you know, scenario.

25 DAVE YOUNG: (b)(5)

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(b)(5)

MALE PARTICIPANT: Yes, I would agree, that's a little bit too much.

DAVE YOUNG: It's not a priority right now. A little too much. It's not a hundred percent core meltdown and all that stuff, so the 40 percent that you guys are talking about was to suddenly increase, (inaudible) --

MALE PARTICIPANT: Even though, but I think what we're talking about from the first run that we already started today was actually to use the emission rates that we had yesterday. And asked us could we (inaudible) --

MALE PARTICIPANT: How much would the --

MALE PARTICIPANT: Then we'll work on the 40 percent as number two priority at this point, is what I'm getting out of all this.

DAVE YOUNG: Okay.

MALE PARTICIPANT: That works for me.

MALE PARTICIPANT: All right, we're ready to sign off, then?

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: All right.

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1 MALE PARTICIPANT: All right, talk to you
2 soon.
3 MALE PARTICIPANT: Thank you, guys.
4 MALE PARTICIPANT: Thanks for everyone's
5 help.
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(CONFERENCE CALL INITIATED)

OPERATOR: Welcome to AT&T's Teleconference Service. Please enter your access code. To join the conference as the host, press star. Otherwise, press pound. There are seven participants on the call, including you.

You are joining your conference as a participant. For a menu of available commands, press star, pound.

MALE PARTICIPANT: NRC joined the line.

MALE PARTICIPANT: Welcome.

MALE PARTICIPANT: Thanks.

MALE PARTICIPANT: (Inaudible) conference call. Who's on?

MALE PARTICIPANT: NRC.

MALE PARTICIPANT: CM Home Team.

MALE PARTICIPANT: Sandia National Labs (inaudible) scientist.

MALE PARTICIPANT: (Inaudible) kind of broken English.

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(CONFERENCE CALL INITIATED)

JOHN NAASTROM: Hi, this is John Naastrom from NARAC. I just called in.

RICK MAURER: Okay, thanks, John. This is Rick Maurer from NARAC --

MALE PARTICIPANT: (Inaudible) about five minutes away.

RICK MAURER: Okay. NIT scientist and Dave Young. And what we wanted to do is start having some regular conference calls. We're thinking probably every four hours, and just go around and have everybody give an update of what they're working on.

MALE PARTICIPANT: Make that two hours, as (inaudible) upstairs right now.

RICK MAURER: Okay.

MALE PARTICIPANT: We'll adjust if we need to.

RICK MAURER: Yes, let's do two hours, so the next conference call will be at 1:00 o'clock Eastern Time. So John, you want to give a quick summary of what you guys are working on (inaudible)?

JOHN NAASTROM: Yes, I'd be happy to. This is John Naastrom from NARAC. So the last prediction that was distributed was a NARAC, CM Home Team product

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1 for impact on the West coast, at different locations
2 on the West Coast, what kind of doses people might
3 experience.

4 So that went out as an e-mail kind of text
5 message, and the next product that was given the priority
6 was to do a regional Japan plume prediction. So this
7 would be kind of using current weather conditions to
8 give estimates of the dose rates, how would they evolve
9 over the next 24 hours plot.

10 That's for Operations, Navy and other
11 operations, situational awareness to what is happening
12 with the current wind condition and which way the plume
13 is going, kind of over Japan.

14 So what we're assuming for that, just because
15 it was going to be quick and expeditious, is to use the
16 emission rates that we used yesterday. So that would
17 be, we're using three marker isotopes.

18 We're assuming xenon-133 at 500 curies per
19 second, cesium-137 at 5 curies per second, and iodine-131
20 at 0.5 curies per second. So that's not necessarily
21 what the current conditions are, but that's a quick
22 calculation that will allow us to get something out for
23 situational awareness and people are desperate for that.

24 The other thing that's going on is, I was
25 on a conference call earlier, conference call with the

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1 NIT and the NRC is now working on source terms for a
2 40 percent melt case that -- sorry?

3 MALE PARTICIPANT: NRC should be online,
4 too.

5 RICK MAURER: Okay, if NRC is on, they would
6 be in a much better position to give the update.

7 BRUCE WATSON: Yes, that's what we're doing
8 for all three units, looking at a 40 percent core melt
9 situation for all and design leak rates, release rate,
10 at this time.

11 JOHN NAASTROM: Okay, now one quick comment
12 on that is, I think you guys are aware, it would be useful
13 to have like, the highest probability, highest dose
14 contributing nuclides. I think we had, like Jeff said,
15 a 15, they were --

16 BRUCE WATSON: Right. We did that, we
17 established that on Friday.

18 JOHN NAASTROM: Okay, very good.

19 BRUCE WATSON: The other question we heard,
20 was it 0.5 curies of iodine-131 or 5 curies per second
21 of?

22 JOHN NAASTROM: That would be 0.5 curies
23 per second of iodine-131.

24 BRUCE WATSON: Okay. We thought we heard
25 5 earlier, okay, so it's 0.5. Okay, thank you.

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1 JOHN NAASTROM: Sure. And again, that may
2 or may not be, maybe that's more like a 10 percent core
3 melt release rate. I don't know. It's scaled to
4 measurements, so, but it gives us something to hang our
5 hat on for now.

6 MALE PARTICIPANT: Do you plan to compare
7 it to the half percent release per day?

8 JOHN NAASTROM: I didn't really analyze it
9 for that, but we can look at that.

10 MALE PARTICIPANT: How it compares to the
11 design leak rate would be a good number to know.

12 JOHN NAASTROM: Yes. Well, the design leak
13 rate and the core melt, obviously. So yes, so as far
14 as the NRC stuff goes, are you guys going to do a separate
15 analysis for Units 1, 2, and 3 with different release
16 times?

17 BRUCE WATSON: What we're going to do is,
18 we're going to use the same release rate and what we're
19 doing is, we're trying to differentiate the different
20 times when the core went into its melt. Melting.

21 So the source terms may be slightly different
22 based on the time factor.

23 JOHN NAASTROM: Okay, so the emission, the
24 release rate and curies per second may be the same, but
25 you'll have different release duration?

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1 BRUCE WATSON: Yes, over, the release rate
2 is going to be the design rate, which we said was, I
3 think, 0.5 percent of the containment per day.

4 JOHN NAASTROM: Right.

5 TERRY KRAUS: Hey John, this is Terry at
6 Sandia. Can you share that source term with us through
7 the Home Team when you get it?

8 JOHN NAASTROM: I think the NRC would
9 normally extend that to CMHT and NARAC would get it at
10 the same time. But, is that true, NRC? Do you have CMHT
11 in your distribution list there?

12 TERRY KRAUS: They have in the past.

13 JOHN NAASTROM: Okay, I'm just asking NRC
14 if they can, if you need that e-mail, terry, why don't
15 you give that e-mail for, out right now.

16 TERRY KRAUS: Okay, that's
17 cmht@nnsa.doe.gov.

18 BRUCE WATSON: A little slower, please?

19 TERRY KRAUS: Cmht@nnsa.doe.gov.

20 MALE PARTICIPANT: Thank you.

21 BRUCE WATSON: Thank you.
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23
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JOHN NAASTROM: Okay, so anything more?

I can give you a little more update on NARAC stuff. Not the first priority stuff, but the additional things that we're doing in a smaller background, maybe some of 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?

RICK MAURER: No, go ahead.

JOHN NAASTROM: Okay. So the other question, the immediate priority, as I said, is to kind of get out a regional Japan region kind of forecast for current conditions, where the plume's going to go.

And then we anticipate we would then update that using the 40 percent melt case source terms for Unit number 1, 2, and 3 with, as appropriate. So that would be the next step for a Japan region calculation, as we haven't started that yet, so we'll keep working with NRC.

The next, the other thing that we've been working on for more US impact, we've been doing calculations with the same three marker isotopes where we just release 1 curie of each, like over 12-hour periods and then try to track that over the Pacific to see when

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1 material might be detected in the US, for example, or
2 Hawaii, or any of the US territories.

3 So that's the kind of calculation that was
4 used to put out the earlier text e-mail message about
5 impact on the US cities. So the thing that I think would
6 be helpful for the CM Home Team, and Steve Homann just
7 joined us here at the NARAC CM Home Team, is that, as
8 we did before, keep working on DRLs so that we can take
9 those calculations, so those marker isotopes, and then
10 try to scale them to do estimates of dose.

11 And I think what we've put out so far is
12 just ground shine dose at the (inaudible) the CM Home
13 Team DRLs that Sandia provided. But if we could come
14 up with both ground shine and cloud shine DRLs that we
15 can use to scale our results.

16 You know, (inaudible) 1 curie of cesium-137,
17 1 curie of iodine-131, 1 curie of Xenon-133, how can
18 we scale those results based on what's looking like now,
19 the referencesource term will be this 40 percent melt
20 case that NRC is working on for all three of the reactor
21 units.

22 So I think that's the thing I think we need
23 the most for the next step after we get done with these
24 initial regional Japan, you know, plume predictions.
25 I think at the high level, that's everything kind of

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1 we're working on and everything we're looking to get
2 from you guys on the phone.

3 Any questions or comments or fill in
4 information?

5 MALE PARTICIPANT: John, just to verify,
6 talking to Dave Bowman, are we using the NOAA weather
7 forecast model, or?

8 JOHN NAASTROM: Yes, we're using, for the
9 trans Pacific calculations we're using the NOAA global
10 model, it's called GFS, and then we're using that same
11 NOAA GFS model to initialize a high resolution weather
12 model that we run here over the Japan region.

13 And there's very little observations coming
14 out of Japan because of their infrastructure damage,
15 so meteorological observations are hard to come by, also
16 though, you know, observations from the global network
17 goes into the NOAA model, so they are influenced by the
18 weather observations and then we do a high resolution
19 zoned weather forecast model for the Japan region on
20 top of that.

21 So it's influenced by, you know, global and
22 regional observations, whatever is available, those go
23 into the NOAA model.

24 MALE PARTICIPANT: Okay, so, okay,
25 understand. Okay, let's see, Cm Home Team, what are

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1 you guys working on?

2 MALE PARTICIPANT: Well, as far as far as
3 assessment goes, we're working with NARAC (inaudible).

4 MALE PARTICIPANT: Okay. I'm getting some
5 feedback here. I'm not sure why. Can you guys hear me?

6 MALE PARTICIPANT: We can hear you fine at
7 NRC.

8 TERRY KRAUS: Okay. Yes, we're working with
9 NARAC. We did some unit dose rates, or unit doses from
10 (inaudible) based on cesium deposited on the ground for
11 various time phases. So as John said, we can estimate
12 the doses (inaudible) time if a plume comes down at various
13 locations.

14 We're going to start looking at the dose
15 from the air, also. We got some more data, as far as
16 I know, all the data that's available that we can understand
17 and that has lat, long, and time, is loaded up into RAMs,
18 so right now that is about 58 data points is all we have.

19 The RSL GIS folks are trying to put those
20 on a map at this time and so -- say it again?

21 MALE PARTICIPANT: (Inaudible) you need,
22 that map has actually been uploaded to CM Web already.

23 TERRY KRAUS: Okay, great. And ultimately,
24 we would like to speak with someone from Japan regarding
25 the food, because it looks like the plume, around this

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1 time in Japan, is bending back onto the main island and
2 so besides protective action decisions, there may be
3 some food ingestion pathway concern.

4 But we just have no understanding of what
5 their concerns are because we can't talk to anyone.

6 MALE PARTICIPANT: Yes, Terry, I mean,
7 (inaudible). Everyone else can weigh in here, but I
8 don't think we're really directly supporting the Japanese
9 yet, (b)(5)

10 (b)(5)

11
12 But I guess that's just my take on it, if
13 anyone wants to say anything else, they can.

14 MALE PARTICIPANT: Yes, from headquarters
15 we're supporting the US interests and personnel in Japan.

16 MALE PARTICIPANT: So Rick, you'll let us
17 know, I guess, if there's any requests that come out
18 of that, right?

19 RICKMAURER: Right. Yes, right now we don't
20 have an official request, (b)(5)

21 (b)(5)

22 you know, (inaudible), so we worked
23 with the associate people to get (inaudible), but we're
24 not mobilizing everyone yet, but we --

25 MALE PARTICIPANT: We're getting everybody
ready and --

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1 DAN BLUMENTHAL: Hey Dave, this is Dan
2 Blumenthal. You guys are speaking of leaning forward.

3 I just got a call from Lieutenant Colonel of the Joint
4 Staff, and I guess he talked to Bob and then this guy
5 said that the folks at NOAA should start coordinating
6 with the aerial port squadron and now it's just so, so
7 the folks know what our AMS load is and they have all
8 their paperwork necessary in case we go somewhere.

9 They started that wheel moving. What?

10 MALE PARTICIPANT: (Inaudible) is looking
11 at --

12 DAN BLUMENTHAL: No, I'm just telling you,
13 yes, you did work, and then so somebody actually called
14 and said to start doing stuff. Is that okay, Bob?

15 MALE PARTICIPANT: Bob just left, Dan.
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RICK MAURER: Dan? Question, Dan.

DAN BLUMENTHAL: Yes, Rick?

RICK MAURER: Has the team leader on all three teams that are deploying FIRM (indiscernible, possibly "FIRMAC"), MRT, the AML have five two-man teams?

DAN BLUMENTHAL: Yes. So and Roger Thompson, well, and then there'll be a (inaudible) also and Roger nominated himself for, you know, if we deploy any CM HT folks.

MALE PARTICIPANT: Dan --

DAN BLUMENTHAL: You have to speak up.

MALE PARTICIPANT: Hey, Mr. Cole (phonetic) just stopped in and asked me, he said, he wanted to know just how many bodies, how much more, and I had that data and gave it to him. He said, you've got (inaudible), he said, no, Courtney's (phonetic) working on that.

He goes, be sure to include passport numbers because you'll find somebody that doesn't have one at the last minute.

DAN BLUMENTHAL: Okay, Courtney, are you on?

COURTNEY (PHONETIC): Yes, I'm on, Dan. We've got a nice (inaudible) put that there pretty quick.

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1 DAN BLUMENTHAL: Yes, and she can go into
2 ARMS and get my official passport number.

3 COURTNEY: Okay.

4 MALE PARTICIPANT: Okay. I've got the
5 (inaudible) that you sent in in the last day or so, Courtney,
6 I got all three of those. So we're, found it. If you
7 update those, and when you update the list of names,
8 you can just forward that to us.

9 COURTNEY: Okay. Yes, the ANS is set
10 (inaudible). The CMOC (phonetic) and the CMAB (phonetic)
11 are going to be at (inaudible).

12 MALE PARTICIPANT: Do we need to -
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COURTNEY: And one thing I want to make sure that the CMOC is the whole group and then that CMAB is part of that group. So if you guys want two separate entities, that means another, we haven't set a contingency for that.

MALE PARTICIPANT: The smaller embassy ops plan is a subset of the main one, if that was one of the options to go with just the US embassy support.

COURTNEY: Well, I do, too, have some additional (inaudible) 38 people.

MALE PARTICIPANT: But the main plan encompasses the US interests, of course.

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MALE PARTICIPANT: Hello?

MALE PARTICIPANT: I'm sorry, we muted ourselves.

MALE PARTICIPANT: Okay, I've got three Ops plans from you guys. One from (inaudible), one from (inaudible) and through the CMEB?

MALE PARTICIPANT: Right.

COURTNEY: (Inaudible) what we're saying, in terms of personnel, the set of EB, the embassy people are part of the overall team. So if we want two separate groups, you want to have 25 one place and 13 somewhere else, that means we have to make sure we populate that.

MALE PARTICIPANT: The intent was to give the option of a smaller team to address a smaller core issue.

COURTNEY: It really didn't change much, we just have to make sure we populate different people.

MALE PARTICIPANT: The way I understand it is that we'd have three, the three sets of teams, the three?

MALE PARTICIPANT: Well, if you had two CM teams, would they be at all co-located as far as a base of operations, or would those two ground components be

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1 completely geographically separate as far as base of
2 operations?

3 MALE PARTICIPANT: What we had worked on
4 yesterday is --

5 MALE PARTICIPANT: I was asking Bob, so I
6 know what we worked on. I was asking Bob what the thinking
7 was so we could rewrite the plan if needed.

8 MALE PARTICIPANT: So what you're saying
9 is that the CMOC and the CMEB are the same? One is just
10 a reduced load? Is that correct?

11 MALE PARTICIPANT: Yes, the CMOC is your
12 main team and you take the CMEB out of that team to do
13 what you need to do in the embassy.

14 MALE PARTICIPANT: Correct, you have the
15 small team option.

16 MALE PARTICIPANT: Oh, okay, got you, got
17 you. Okay, so --

18 MALE PARTICIPANT: So if the White House
19 decides they just want to go, like monitor embassies
20 and bases and things like that, then you only need this
21 smaller component.

22 MALE PARTICIPANT: Yes, just pull a sub team
23 out of the main team and do what you need to do.

24 MALE PARTICIPANT: I understand. I got you
25 know, I understand. I misunderstood. Okay, well, go

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1 with what you've got. I'm going to find Mr. Cole and
2 let him know that we made a miscalculation here and I
3 didn't understand completely. So I will get back to
4 you. Continue to march on. We'll --

5 MALE PARTICIPANT: But you didn't give him
6 wrong numbers. I mean, what is it, 38?

7 MALE PARTICIPANT: (Inaudible) I gave him,
8 I full counted some and I didn't realize I was doing
9 that. So I'm going to go (inaudible) --

10 COURTNEY: Actually, that should be fine.
11 Yes, the biggest thing is, that would be, we need to
12 know exactly what we're doing. We don't want to double
13 people up.

14 MALE PARTICIPANT: The AMS is going and the
15 CMOCs is going. Now, do you need the CMEB in addition
16 to the CMOCs? I don't think so. I didn't realize that --

17 MALE PARTICIPANT: No, because they're part
18 of that 38-person CMOC.

19 MALE PARTICIPANT: I understand that now
20 (inaudible) --

21 MALE PARTICIPANT: They're part of the 24
22 or 25. If we got separate, that means there's 38 --

23 MALE PARTICIPANT: No, they're part of 28,
24 not 26. Okay, yes.

25 MALE PARTICIPANT: Correct.

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1 MALE PARTICIPANT: Hey guys, can we this
2 is an assessment. We just heard a rumor that the Japanese
3 store their spent fuel on top of a roof by the turbine
4 building. If that's true, then maybe that's why we're
5 seeing cesium and it's not necessarily a fuel cladding
6 damages.

7 MALE PARTICIPANT: This is the NRC. In these
8 boiling waste reactor designs, the reactor's spent fuel
9 pool is in the reactor building and right now, with Unit
10 1 having the roof blown off and Unit 3 with the roof,
11 I guess, compromised or off, the spent fuel pool is open
12 to air and our Reactor Safety Team is looking into that,
13 but with the spent fuel, as long as there's no leaks,
14 we have days, if not a week to be concerned about the
15 fuel heating up and the lack of cooling.

16 But right now it is, the spent fuel pool
17 is open to the atmosphere, but it is not a release point
18 or a concern at this time. Any questions about that?

19 MALE PARTICIPANT: Okay, thank you.

20 MALE PARTICIPANT: All right, thank you.

21 MALE PARTICIPANT: Okay, so let's schedule
22 the next conference call at 1300 Eastern Time, so that's
23 in about an hour and a half.

24 WENDY PEMBERTON: This is Wendy at RSL.
25 I just wanted to offer my (inaudible) too, they're

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1 (inaudible) monitoring and assessment plan, and
2 (inaudible) of the NIT for Alan Remick and that's also
3 available on CMWeb.

4 MALE PARTICIPANT: Okay, thank you.

5 WENDY PEMBERTON: Sure.

6 MALE PARTICIPANT: Hey John Naastrom, are
7 you still there?
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: 586-8100, and it says
ask for NIT.

OPERATOR: 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?

BRUCE WATSON: Yes, this is the NRC
Operations Center. Can we be transferred over to the
NIT?

DANIEL: Yes. One second. All right, you
all are connected to the NIT.

BRUCE WATSON: Yes, this is Bruce Watson
and Kathryn Brock and Christy Liu (phonetic).

RICK MAURER: Okay, this is Rick Maurer at
the NIT.

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(CONFERENCE CALL INITIATED)

RICK MAURER: Hello?

BRUCE WATSON: Yes? Who are we speaking to?

RICK MAURER: This is Rick Maurer at the NIT.

BRUCE WATSON: Okay, Rick. How you doing? This is Bruce Watson.

RICK MAURER: Doing good.

BRUCE WATSON: And Kathryn Brock and Christine Liu at the NRC Headquarters protective Measure Team. We have had, I guess at the 11:00 o'clock timeframe, actually, the 10:00 o'clock call, we had agreed to send NARAC some stuff by noon.

We actually got it out of here around 12:30.

We had also said we were going to have a call around 2:00. We were wondering if they were ready to, they've reviewed the data and want to have a chat about it.

Like, we told naval Reactors we would get them some information by, I think 4:00. And so that's one thing we need to follow up on. A call with NARAC.

And then also, this morning, was it CMP said that they wanted to have periodic phone calls, but we never heard the interval of the calls that they wanted to have.

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1 And so we wanted to follow up on --

2 RICK MAURER: Okay, yes, our next call is
3 at 3:00 o'clock with the CM Home Team. And NARAC will
4 be on there at 3:00.

5 BRUCE WATSON: At 3:00?

6 RICK MAURER: Yes. You want to talk, get
7 in touch with them before then?

8 BRUCE WATSON: I guess we'd like to know
9 if they have any questions beforehand.

10 RICK MAURER: Okay.

11 BRUCE WATSON: Yes, 3:00 is when we turnover
12 here for shift change, but we'll accommodate the call.

13 RICK MAURER: Okay. Let me get your number
14 again. I had 5419, is that correct?

15 BRUCE WATSON: Yes, 301-(inaudible)
16 16-5419.

17 RICK MAURER: Okay. Because I called that
18 earlier and I kept getting a busy.

19 KATHRYN BROCK: Oh? We were on the phone
20 awhile ago, but. Give him this number, too.

21 BRUCE WATSON: Okay, and that's 301-816-5414,
22 right?

23 KATHRYN BROCK: No, 4415.

24 BRUCE WATSON: 4415.

25 RICK MAURER: 4415, okay.

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1 KATHRYN BROCK: There's two phones here.

2 RICK MAURER: Okay, and you have the call
3 in number for the 3:00 o'clock? The 877 number?

4 KATHRYN BROCK: No.

5 BRUCE WATSON: We had that somewhere.

6 KATHRYN BROCK: What is it again?

7 RICK MAURER: 877-336-1274.

8 KATHRYN BROCK: Okay, what's the bridge
9 number?

10 RICK MAURER: Access code is (b)(6) pound.

11 KATHRYN BROCK: Got it. Thank you.

12 BRUCE WATSON: Okay.

13 RICK MAURER: Okay.

14 BRUCE WATSON: Thanks, Rick.

15 RICK MAURER: We'll see you guys at 3:00.

16 KATHRYN BROCK: All right, bye.

17 BRUCE WATSON: Bye.

18 RICK MAURER: Thank you.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Is it 3 o'clock?

OPERATOR: Welcome to AT&T's -- To join the conference as the host, press star. Otherwise, press pound. There are four participants on the call, including you. You are joining your conference as a participant.

For a menu of available commands, press star, pound.

(Crosstalk)

MALE PARTICIPANT: (Inaudible) talking about the weather.

MALE PARTICIPANT: Somebody's got to talk about the weather.

MALE PARTICIPANT: Oh, one of the predictions I had (inaudible) --

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: (Inaudible)

HANS (PHONETIC): This is Hans (phonetic) out of Sandia Home Team. Who was just asking if there's anybody there. Were you looking for us?

KATHRYN BROCK: This is the (inaudible), the NRC Headquarters, from the PMT.

HANS: Oh, okay. Were you looking for -- we were having a discussion and I just didn't know if you were looking for the assessment group or just looking for anybody.

MALE PARTICIPANT: The PMT is NARAC's group.

MALE PARTICIPANT: (Inaudible) for the PMT and NARAC.

RICK MAURER: Hi, this is Rick Maurer (inaudible) with the NIT.

MALE PARTICIPANT: Hey Rick, how are you?

RICK MAURER: Good, thanks. Wasn't the conference in two hours with NRC and NARAC and Home Team and NIT?

MALE PARTICIPANT: Every two hour conference call starting when, right now?

RICK MAURER: Started 11:00 this morning, but there's one starting at 3 o'clock Eastern Time.

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1 MALE PARTICIPANT: Okay, so 1300 Mountain
2 there'll be a conference call and it's on this bridge
3 line?

4 RICK MAURER: Right now. It's starting
5 right now.

6 MALE PARTICIPANT: 3 o'clock Eastern is 1
7 o'clock here.

8 MALE PARTICIPANT: Oh, I get it, okay, so
9 we'll listen.

10 RICK MAURER: Is NARAC on? Let's wait a
11 few minutes for NARAC.

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(CONFERENCE CALL INITIATED)

JOHN NAASTROM: Hi, this is John Naastrom from NARAC.

RICK MAURER: Hey John. (Inaudible) Dave Young from the NIT and we've got the NRC on as well. We can start out by giving an update of (inaudible) results we put out (inaudible).

JOHN NAASTROM: Yes, in fact, I need, we just got done. We're in the middle of sharing those out. Haven't got them to the NRC folks yet. But --

MALE PARTICIPANT: He's NARAC, call him back.

JOHN NAASTROM: -- that was the (inaudible) the dose rate process that we found --

MALE PARTICIPANT: Hello?

JOHN NAASTROM: -- using the, you know, the 500 curie per second Xenon, .5 curies per second of cesium, and 5 curies per second of iodine, so that's just kind of situational awareness (inaudible) that the Navy wanted to continually know where the plume was going over Japan.

MALE PARTICIPANT: Oh, okay, hold on. Hey guys --

MALE PARTICIPANT: (inaudible) Tony?

MALE PARTICIPANT: That's (inaudible) per

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1 hour?

2 JOHN NAASTROM: Yes, there's a separate
3 (inaudible) the dose rate, a dose rate (inaudible)
4 reality.

5 (crosstalk)

6 MALE PARTICIPANT: But we have some
7 frustration.

8 JOHN NAASTROM: And I have trouble hearing
9 you. If folks aren't speaking, can they put their phones
10 on mute?

11 MALE PARTICIPANT: Yes, John, the question
12 was, is that release at the beginning of each hour?

13 JOHN NAASTROM: No, it's, well, it released
14 for 48 hours at that same rate, so it's the same model
15 simulation. We're just showing you that the dose rate
16 snapshot at every hour for --

17 MALE PARTICIPANT: And I guess Bill adds
18 on to the next one?

19 JOHN NAASTROM: Right, but you know, the
20 wind's moving it away, right, so it continues to (inaudible)
21 the plume just gets carried in different directions.

22 MALE PARTICIPANT: Okay. All right. Okay,
23 so those are out for review and a copy will go to the
24 NRC as well?

25 JOHN NAASTROM: Yes, I got, I think we're,

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1 you know, I think the main users of those has been the
2 Navy folks. They have ships out there, so if the NIT
3 could just let us know when they're ready, anyone else
4 they would like it shared with.

5 MALE PARTICIPANT: Okay. That's, working
6 with the interagency group on the process of releasing
7 NARAC products, but we haven't received that yet. Okay,
8 so what are you, the next set you're going to work on?

9 JOHN NAASTROM: Well, we have a plot, once
10 we leave this call I'll go proof it. (b)(5)

11 (b)(5)

12
13
14 And then the CM home Team and the Sandia
15 folks, the Sandia Home Team have worked out the DRL.
16 It's well below the DRL for food ingestion, (b)(5)

17 (b)(5)

18
19 And then the, I guess the next step is trying
20 to figure out how to, you know, you guys need to figure
21 out how you want to package that information and distribute
22 it.

23 MALE PARTICIPANT: And then the next step
24 is the, you said the percent damage?

25 JOHN NAASTROM: Right, yes, you mean the

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1 40 percent, which we've been looking at that. I think
2 one of the things that, if the NRC is on the line, we'd
3 like to talk about, is what release start times should
4 we be, because I don't think we should be assuming --

5 BRUCE WATSON: Yes, we just spoke, this is
6 NRC. We just spoke with Phil, and our release start
7 times are when the core comes uncovered. He said he
8 understood that. At NARAC.

9 MALE PARTICIPANT: Okay.

10 JOHN NAASTROM: Okay, so, and do we have
11 the core uncover time?

12 BRUCE WATSON: Yes, those are in the run
13 from, with the RASCAL run.

14 JOHN NAASTROM: Yes, okay, I see that now.

15 BRUCE WATSON: Okay?

16 JOHN NAASTROM: Yes. Okay, perfect. Now
17 the other thing, I don't know if Phil asked you for,
18 but is there a way you guys can quickly re-send it with
19 the 15 most important nuclides?

20 BRUCE WATSON: I think those were sent
21 beforehand. We could re-send them, though.

22 JOHN NAASTROM: Oh no. I thought maybe there
23 was a larger list than that.

24 BRUCE WATSON: No, no.

25 JOHN NAASTROM: Okay, one of the files we

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1 were looking at was a much larger list than that.

2 MALE PARTICIPANT: Yes, this one's huge.

3 JOHN NAASTROM: Huge. Maybe you guys sent
4 it (inaudible).

5 BRUCE WATSON: All right. We'll re-send
6 them just in case.

7 JOHN NAASTROM: Great, thank you very much.

8 MALE PARTICIPANT: Yes, I was going through
9 pulling them up. So, good.

10 MALE PARTICIPANT: (Inaudible) have .5
11 release rate? It's only 5 percent release rate? Per
12 day?

13 MALE PARTICIPANT: Right, of core. So .5,
14 I guess 40 percent?

15 MALE PARTICIPANT: That's a question to the
16 NRC. I think you guys used a .5 percent per day, right?

17 MALE PARTICIPANT: That's what it shows on
18 here.

19 MALE PARTICIPANT: He probably ran off to
20 do the math. Yes, we're looking at the assumptions here.

21 MALE PARTICIPANT: I've read that
22 (inaudible), can't find it.

23 MALE PARTICIPANT: It says .54 percent per
24 day on, .54 percent per day.

25 MALE PARTICIPANT: Okay, so just to

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1 summarize, you'll do each of the three reactors
2 independently, 40 percent core, uncovered, or damaged,
3 at a rate of .5 percent per day?

4 MALE PARTICIPANT: Correct.

5 JOHN NAASTROM: Right. Yes.

6 MALE PARTICIPANT: That'll go into our next
7 round of reasons. And how long will you run that? Same
8 thing? The 24-hour period, or?

9 MALE PARTICIPANT: I think (inaudible) 48
10 it.

11 MALE PARTICIPANT: Forty-eight hours?

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: Yes, for that, let's see,
14 I haven't looked at the NRC assumptions. Is that what
15 they use? The RASCAL can go for 48 hours with, I mean,
16 their nuclides.

17 MALE PARTICIPANT: Okay, so yes, it's a
18 48-hour release.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Okay, so now
(inaudible) --

MALE PARTICIPANT: I guess I'm wondering
if (inaudible) same start times for all three reactors,
right? And I guess in the absence of anything else,
that's what we need to assume, but I'm just wondering,
is there any other information that would give us a clue
that Reactor 1 started earlier and that Reactor 2 and
3 went later, I guess, would be the question?

That's probably a question for the NRC, I
guess, but I think they're not there, is that right?

MALE PARTICIPANT: They were online.

BRUCE WATSON: We're here. Sorry. What was
the question again?

MALE PARTICIPANT: (Inaudible) I understand
we're assuming that we'll start the releases for all
three units at the core uncovering time.

BRUCE WATSON: Right, and that's at
different times.

MALE PARTICIPANT: Oh, okay, and where are
those? Are they in your report? They probably are,
right?

BRUCE WATSON: Yes, there are different

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1 times in each one of them. Based on what we were able
2 to derive from the information we've gotten so far.

3 MALE PARTICIPANT: Yes, yes, I'm sorry.
4 Everything is right in front of us, we just haven't had
5 a chance to read it yet, so I understand.

6 BRUCE WATSON: We know we're not perfect,
7 but we try.

8 MALE PARTICIPANT: You're okay.

9 MALE PARTICIPANT: (Inaudible)

10 MALE PARTICIPANT: Okay, anything else from
11 John at NARAC?

12 TERRY KRAUS: John, Terry Kraus, I want to
13 talk with you when we're done with this one.

14 MALE PARTICIPANT: Yes, so I guess maybe
15 a quick question to talk about is, and the priority for
16 this is to do the dispersion over Japan, obviously, and
17 then I guess get ready to do the transport across the
18 Pacific after that. Am I correct in that assumption,
19 Rick?

20 RICK MAURER: I think that's the way we want
21 to go.

22 BRUCE WATSON: This is the NRC. We want
23 to make sure we get some updated meteorological data
24 and forecasts from you guys.

25 JOHN NAASTROM: Actually, I think we just

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1 send out an update in the last hour. It may have come
2 from personal e-mail, like Joe Bones (phonetic) may have
3 sent that.

4 BRUCE WATSON: Okay. We'll try and get
5 someone to verify that.

6 JOHN NAASTROM: Okay.

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(CONFERENCE CALL INITIATED)

RICK MAURER: Does the NRC have anything?

BRUCE WATSON: No. We're just going to verify we got the updated material. The other thing we're doing is, we were looking at some survey data from this morning. We were looking at some of the survey data we did get from the sites this morning, and we're trying to make some assumptions about on site ground deposition.

And so we're just working on that now. So we don't have any conclusions.

MALE PARTICIPANT: Do you have any data that you can share that we can all start looking at, or is that too preliminary?

BRUCE WATSON: I would call it too cryptic and preliminary at this time.

MALE PARTICIPANT: Okay. Is this data from the plant itself?

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Are you still there?

BRUCE WATSON: I'm sorry, who are you talking to?

MALE PARTICIPANT: To the NRC, you said you had new ground deposition data. Is that from the --

BRUCE WATSON: No. We're trying to derive from some of the microsievert readings we had over the last couple of days, trying to make some educated guesses on what might be ground deposition on the sites, so it's old stuff.

You know, there is such a thing as sea breeze and other things, and we're wondering why we were seeing some of the more elevated readings in the past on the western side of the plant, and that's something we contributed it to.

So it's all just speculation on our part at this point.

MALE PARTICIPANT: Understand.

BRUCE WATSON: Okay.

MALE PARTICIPANT: (Inaudible) Home Team (inaudible).

MALE PARTICIPANT: As far as assessment goes, so we're just working with NARAC to develop the final,

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1 or the next set of data products. The more data we get,
2 the better off, and we're just not getting much data.
3 But that's something that no one on this line can control.

4 So nothing new.

5 RICK MAURER: Okay. Okay, does anybody else
6 have anything they'd like to add at this conference call?

7 MALE PARTICIPANT: We wanted to verify when
8 the next call is.

9 RICK MAURER: I'm going to go with 2 hours,
10 which would be 1700 Eastern Time.

11 DAN BLUMENTHAL: Hey Rick, this is Dan
12 Blumenthal.

13 RICK MAURER: Go ahead, Dan.

14 DAN BLUMENTHAL: I had a couple of questions.
15 One, I had e-mailed you guys a question earlier about
16 the ECN. And I was wondering if (inaudible) there anyone
17 had a chance to get feedback. It was in the plan, but
18 turns out we need an extra NA 44 support person to make
19 sure it gets configured properly over there to work in
20 Japan.

21 MALE PARTICIPANT: Right.

22 DAN BLUMENTHAL: And the decision was no,
23 we couldn't have that extra person, then Joe Nichols
24 (phonetic) did have an option of leaving the ECN home

25 and (b)(5)

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1 (inaudible), but that wouldn't be as reliable.

2 So I was wondering if there was a decision
3 yet.

4 MALE PARTICIPANT: We'll check with
5 (inaudible). I know --

6 DAN BLUMENTHAL: Well, just let us know here.
7 And the second thing was, actually we just had a briefing
8 here with all the deploying people and one person asked
9 a really good question is, you know, if conditions worsen,
10 you know, evacuation-related or whatever, I assume, so
11 are we taken care of under the DoD or whatever other
12 umbrella?

13 MALE PARTICIPANT: I will check that one.
14 By taken care of, what do you mean?

15 DAN BLUMENTHAL: Well, if people, if
16 conditions worsen, if there's another tsunami and people
17 are evacuating, people just want a warm, fuzzy feeling
18 that they're not hanging out there, that's all.

19 MALE PARTICIPANT: Understand.

20 RICK MAURER: We'll find out about that.

21 DAN BLUMENTHAL: And also, do we have any -- we
22 don't have anything more than we're pre-staging to Yokota,
23 right? We don't have any operational taskings yet, do
24 we?

25 MALE PARTICIPANT: I don't know.

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1 DAN BLUMENTHAL: Okay.

2 MALE PARTICIPANT: We haven't had any
3 operational taskings at this point.

4 DAN BLUMENTHAL: Okay, that was all I had.

5 MALE PARTICIPANT: Our understanding is,
6 and Dave, correct me, is its pre-positioning of the team
7 at this point.

8 DAN BLUMENTHAL: Okay, that's what I thought.

9 I just wanted to check because you guys are closer to
10 center of, yes.

11 MALE PARTICIPANT: Yes, we haven't heard
12 any operational taskings at this point.

13 DAN BLUMENTHAL: Okay, thank you. I don't
14 have anything else.

15 MALE PARTICIPANT: Okay.

16 RICK MAURER: Rhonda (phonetic), you have
17 anything?

18 MALE PARTICIPANT: Hold on. Rhonda, do you?
19 Nothing from Rhonda.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: When is the next call?

MALE PARTICIPANT: The next call is at 1700 Eastern, so in 2 hours.

MALE PARTICIPANT: Okay. Thank you.

MALE PARTICIPANT: You can't (inaudible) yet. Okay. When you get to the log on --

DAN BLUMENTHAL: We're good here.

MALE PARTICIPANT: All right, thanks, Dan. We'll get back to you on those questions, Dan. We'll talk to Dave.

DAN BLUMENTHAL: Okay. I'm in the Rock.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Okay.

RICK MAURER: Okay, see you at 1700.

JERRY (PHONETIC): Hey, John Naastrom?

STEVE (PHONETIC): Hey Jerry, this is Steve. John just stepped out. I'll get him back in. Hold on.

JERRY: Okay. Well, are you, okay.

STEVE: Go ahead.

JERRY: I'll wait until he comes back.

STEVE: Okay.

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2 KATHRYN BROCK: NRC.

3 MICHAEL DUDEK: Hi, this is Michael Dudek
4 down here at USAID. Who am I speaking with?

5 KATHRYN BROCK: Kathy Brock. How you doing?

6 MICHAEL DUDEK: Good. How are you doing?

7 KATHRYN BROCK: Good.

8 MICHAEL DUDEK: I'm sitting here with USAID
9 representative and she's got an IOU to her administrator
10 on NRC modeling and what we're doing, who we're working
11 with and we need a (inaudible).

12 MALE PARTICIPANT: So it's not going to
13 become public, I don't think, but --

14 MICHAEL DUDEK: We need a paragraph or a
15 couple of sentences on what we're doing, what we're looking
16 at, how we do things. Can you help her with that?

17 KATHRYN BROCK: Yes. I think basically what
18 we're doing is, we're trying to do our models based on
19 the official information that we've received, okay?

20 MALE PARTICIPANT: Okay. I'm sorry, can
21 you, I'm going to talk while you talk, if that's all
22 right?

23 KATHRYN BROCK: Okay. You guys jump in if
24 I say something stupid.

25 MALE PARTICIPANT: Oh, I'm the only one on

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1 the line.

2 KATHRYN BROCK: Oh no, I'm talking to the
3 people here.

4 MALE PARTICIPANT: Oh, okay.

5 KATHRYN BROCK: So --

6 MALE PARTICIPANT: I won't know if it's
7 stupid, so.

8 KATHRYN BROCK: They will. We've been, okay,
9 so conducting our analysis using, what did I say?
10 Officially available data from the government of Japan.
11 We are working with our counterparts in DoE to benchmark
12 the analysis we do with the analysis that they're doing.

13 So it's a coordinated effort.

14 MALE PARTICIPANT: Okay, one second.

15 KATHRYN BROCK: Am I heading on the right
16 path for what you want?

17 MALE PARTICIPANT: I believe you are. It
18 wasn't entirely fair to me because I had --

19 KATHRYN BROCK: What else, you guys? What's
20 the question, again?

21 MALE PARTICIPANT: Well, it was a rather
22 vague question, to be honest, but it's just basically,
23 what is NRC doing in terms of modeling. And I'm --

24 KATHRYN BROCK: Okay, so we're watching very
25 close, but we're closely watching changes in

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1 meteorological data to see how it impacts our analysis.

2 That's one of the big things right now, because the
3 wind is generally blowing out to sea, but as it shifts
4 towards land, we want to analyze that so that we can
5 reinforce that the protective measures taken by Japan,
6 which is like, evacuations, that they're adequate and
7 appropriate.

8 MALE PARTICIPANT: Okay.

9 KATHRYN BROCK: You'll make it sound like
10 real English, right?

11 MALE PARTICIPANT: Oh, yes, you did really
12 well. Okay, that's awesome.

13 KATHRYN BROCK: Great.

14 MALE PARTICIPANT: I'm going to rudely hang
15 up abruptly, but I'm so grateful for this.

16 KATHRYN BROCK: All right, take care.

17 MALE PARTICIPANT: Okay, thank you.

18 KATHRYN BROCK: Bye.

19 MALE PARTICIPANT: Bye.
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC, this is the PMT.

MARIA JULIA MARINISSEN: Yes, you know, I
(inaudible) take a message, team director.

MALE PARTICIPANT: We're here. Go ahead.

MARIA JULIA MARINISSEN: Oh, this is Maria
Julia Marinissen from HHS, (inaudible). We have a request
from the White House to answer some specific questions
about the incident in Japan and they, someone from the
White House asked to contact you because you work with
(inaudible) assessment messages. Is that correct?

MALE PARTICIPANT: Oh, okay. Hang on, we're
just talking.

MARIA JULIA MARINISSEN: All right.

MALE PARTICIPANT: Oh, all right. Okay,
what are your questions?

MARIA JULIA MARINISSEN: Well, we have a
series of questions in writing, and also to receive writing
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?

MALE PARTICIPANT: Yes.

MARIA JULIA MARINISSEN: Okay. Do you have
an e-mail where I can send the questions?

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1 MALE PARTICIPANT: Yes, it's
2 pmt12.hoc@nrc.gov.

3 MARIA JULIA MARINISSEN: Okay, it's
4 pmt12.hoc@nrc.gov, right?

5 MALE PARTICIPANT: Yes.

6 MARIA JULIA MARINISSEN: All right, we will
7 send you the questions. We (inaudible) request, they
8 want the answers like, 4:15 or 4:30 at the maximum because
9 we have to run it by our assistant secretary, Dr. Freeman
10 before it goes to the White House.

11 So if you like, you can (inaudible) answer
12 something really quick, I need to know if we have to
13 wait for you or not, it'd be fantastic.

14 MALE PARTICIPANT: We'll see what we can
15 do.

16 MARIA JULIA MARINISSEN: Thank you.

17 MALE PARTICIPANT: Do you have a call back
18 number in case we have any?

19 MARIA JULIA MARINISSEN: Yes, it's 202 --

20 MALE PARTICIPANT: 202.

21 MARIA JULIA MARINISSEN: --205 --

22 MALE PARTICIPANT: 205.

23 MARIA JULIA MARINISSEN: -- 4214.

24 MALE PARTICIPANT: 4214. Is there anyone
25 specific to ask for?

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1 MARIA JULIA MARINISSEN: yes, I mean, it's
2 my phone, it's Maria Julia Marinissen.

3 MALE PARTICIPANT: Maria?

4 MARIA JULIA MARINISSEN: Yes. Marinissen.
5 And I'm going to send you an e-mail right now so you
6 will have my name.

7 MALE PARTICIPANT: Okay. Thank you.

8 MARIA JULIA MARINISSEN: Thank you so much,
9 I appreciate it.

10 MALE PARTICIPANT: Okay.
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: These are the ones that,
okay, can I have this or do you want me to bring it back?

MALE PARTICIPANT: (Inaudible)

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: No way we could have
pushed this (inaudible) without me.

RICK MAURER: I got the NIT and Dave Young
and NARAC on.

MALE PARTICIPANT: Hello?

RICK MAURER: This is NARAC on here.

MALE PARTICIPANT: I haven't heard, this
is (inaudible) and Nellis (phonetic).

RICK MAURER: Okay, is this Jimmy
(phonetic)?

JIMMY (PHONETIC): Yes, sir.

RICK MAURER: Hey, this is Rick Maurer at
the NIT. We're just waiting for NARAC.

JIMMY: Okay.

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(CONFERENCE CALL INITIATED)

RICK MAURER: Okay, let's go ahead and get started. I think we're still waiting on NARAC, but they've got a deadline to get a couple of plots out for a 1800 briefing. Let's start with the CM Home team. What you guys working on?

MALE PARTICIPANT: I asked her to send me a list of (inaudible) he doesn't want to give me contact information (inaudible) --

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(CONFERENCE CALL INITIATED)

RICK MAURER: Let's go ahead and get started.

I know we're waiting on NARAC, but could CM Home Team give an update?

STEVE: NARAC's here, this is Steve and Kevin Foster. And we'll get John is you need him.

RICK MAURER: Okay, I know he's working hard.

STEVE: Yes, exactly.

RICK MAURER: Okay, can you give us an update, Steve?

STEVE: so basically, they're working on the revised dose plot using the radiological data for each of the reactors at 40 percent core, .5 percent per day over two days. So that's in process.

RICK MAURER: Okay, let's see, CM Home Team, what are you working on?

MALE PARTICIPANT: We've got the guys, they're building the pallets, all the personnel have departed home to get their baggage. On their way back. We've got Nellis, we've been here helping us with the palleting.

Been in contact with Chris back in your area and he's trying to get us some names and point of contact in Yokota of things that we (inaudible) with such as

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1 billeting, food, transportation, things like that,
2 internet contacts. We're working all those issues.

3 RICK MAURER: Okay, all right, good. Let's
4 see, is the NRC on?

5 KATHRYN BROCK: Yes, the NRC is here.

6 RICK MAURER: Okay. Do you have any updates?

7 KATHRYN BROCK: We don't have any new
8 information here. No updates.

9 RICK MAURER: All right. Let's see, Dan
10 Blumenthal, are you on?

11 MALE PARTICIPANT: No, Dan has left, he's
12 gone to build himself a little go package as well. He's
13 going to be back shortly. What do you need?

14 RICK MAURER: Oh, no, I'm just going around
15 the table, see if anybody has anything they want to bring
16 up.

17 MALE PARTICIPANT: All right.

18 RICK MAURER: Okay, so --

19 TONDA (PHONETIC): Hey, Rick?

20 RICK MAURER: Yes, go ahead.

21 TONDA: Yes, this is Tonda (phonetic) at
22 Home Team. You asked about Home Team, we didn't answer.
23 Basically we got the dose assessment stuff back to NARAC
24 on the plot, should it hit landfall on the West coast
25 or Hawaii or Anchorage.

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1 And then we're answering your questions about
2 the plots and working on a shift schedule for long term
3 coverage for this, and that's about it. Just trying
4 to gain a little more situational awareness.

5 RICK MAURER: Okay, all right, sounds good.
6 We're going to do a shift change here at 1900, so I'd
7 like to schedule the next conference call for 2000 Eastern
8 Time. (Inaudible) getting back in at 2000 Eastern Time.
9 Thank you.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC, this is the PMT.

PHIL VOGT (PHONETIC): Yes, this is Phil Vogt (phonetic) calling, I'm returning Tom Galletta's (phonetic) call.

MALE PARTICIPANT: Just a moment. Tom?

TOM GALLETTA: Hello, this is Tom Galletta.

PHIL VOGT: Hi, Tom. This is Phil Vogt.

TOM GALLETTA: Phil, we were looking to see if you had some actual met data from early in the event that we could replace the forecast updating with.

PHIL VOGT: All of our normal observations went away after the earthquake. We have no observations whatsoever except for like, at Sendai Airport.

TOM GALLETTA: Okay. We were looking at Sendai and we're also looking at Okahama or Omahama? Onekama?

PHIL VOGT: We haven't been able to find anything that we feel is close enough and is representative of what's going on on the coast right there.

TOM GALLETTA: Okay.

PHIL VOGT: I do know that there are meteorological observations taken at the power plants in Japan. I'm pretty sure that that data is not out

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1 in the public though, but I'm hoping at some point we'll
2 be able to get to that data from either Jerry or other
3 organizations.

4 But we don't have any observational information
5 that we believe is relevant. Even remotely relevant
6 at this time.

7 TOM GALLETTA: Okay. So the bottom line
8 is, you've only used forecasts?

9 PHIL VOGT: Correct.

10 TOM GALLETTA: in NOAA? Okay. Would you
11 be willing to give us a call at some point if you found
12 something reliable?

13 PHIL VOGT: If we ever get real obs, you
14 bet you.

15 TOM GALLETTA: Okay.

16 PHIL VOGT: We can do that.

17 TOM GALLETTA: Very good.

18 PHIL VOGT: All right, Tom.

19 TOM GALLETTA: Thank you.

20 PHIL VOGT: Yes, bye.

21 TOM GALLETTA: Bye now.

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(CONFERENCE CALL INITIATED)

MICHELLE HART: NRC, this is the PMT.

RICK LENTZ: Hi, how are you doing? My name is Rick Lentz, I'm the Director of Radiological Controls at Naval Reactors. I'm calling with regard to issues in Japan and I have some new radiological data. Am I talking to the correct person?

MICHELLE HART: You are talking to the correct person, yes.

RICK LENTZ: Okay, what's your name, ma'am?

MICHELLE HART: My name is Michelle Hart, I'm the Radiological Assessment Assistant Director.

RICK LENTZ: Okay, and so I'm sorry, I've missed your name?

MICHELLE HART: Michelle Hart.

RICK LENTZ: Michelle?

MICHELLE HART: Hart, H-A-R-T.

RICK LENTZ: Okay, I got it. Okay. Not sure where you're at in this, but I presume you know that the wind has shifted to the southwest?

MICHELLE HART: Yes, we do know that, thanks.

RICK LENTZ: Okay. We are getting positive radiological data now all the way down to Yokosuka near where we have the George Washington aircraft carrier.

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1 MICHELLE HART: Okay.

2 RICK LENTZ: I'll just run you through some
3 of the data we have right now. We got, at 1800 Eastern
4 Standard Time, a 1 cubic meter portable air sample, so
5 a particulate measurement of about 2.4 times 10 to the
6 ninth eighth microsieverts per milliliter.

7 MICHELLE HART: Okay, that's 2.4 10 to the
8 minus 8 microcuries per milliliter?

9 RICK LENTZ: Yes ma'am.

10 MICHELLE HART: And that's particulates?

11 RICK LENTZ: Yes ma'am.

12 MICHELLE HART: Gross?

13 RICK LENTZ: Yes ma'am. However, we did
14 get a radio nuclide breakdown on that and it is consistent
15 with what we've seen (inaudible). So we saw
16 iodine-131, -132, tellurium -132, iodine-133, and
17 cesium-134 and -137. And when you look at the spectral
18 (inaudible), it is consistent with what we saw on Reagan
19 when she was out east, off the coast.

20 MICHELLE HART: Okay.

21 RICK LENTZ: Let's see, additionally we got
22 a water sample from a tank and, (inaudible) it was the
23 barge they have out there and we detected iodine-131
24 and cesium-137 in that as well. So again, consistent
25 with the type of radioactivity we're seeing in the plume.

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1 Lets see here. Additionally, we stated to
2 get airborne radio Ii levels inside the aircraft carrier.

3 The maximum we saw there was 7.5 times 10 to the minus
4 9th microsieverts per milliliter.

5 MICHELLE HART: Okay, that was 7.5 10 to
6 the minus 9th microsieverts per milliliter?

7 RICK LENTZ: Yes ma'am. One second, please.
8 I'm sorry, correction. That one turns out to be 3 times
9 10 to the minus 9th. The folks that took it were using
10 cobalt (inaudible).

11 MICHELLE HART: Okay, 3 times 10 to the minus
12 9th, (inaudible) 3.

13 RICK LENTZ: Yes, same order of magnitude,
14 but.

15 MICHELLE HART: Okay.

16 RICK LENTZ: Additionally, we are now
17 starting to see ground deposition outside. At 1904
18 Eastern Standard Time we received a report that there
19 was 450 (inaudible) series per a direct probe on the
20 ground. So the plume is starting to deposit a little
21 (inaudible) activity as far down as Yokosuka.

22 MICHELLE HART: Okay, can you spell the name
23 of your location?

24 RICK LENTZ: Y-O-K-O-S-U-K-A, Yokosuka.

25 MICHELLE HART: Okay.

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1 RICK LENTZ: And to, it's basically a naval
2 base down there and we have USS George Washington parked
3 there right now.

4 MICHELLE HART: Okay, so you're on, near
5 the shore?

6 RICK LENTZ: Yes.

7 MICHELLE HART: Okay. Okay, and the water
8 sample was from what time?

9 RICK LENTZ: About 1800.

10 MICHELLE HART: 1800, along with the air
11 level?

12 RICK LENTZ: Yes. My guess is when they
13 were drawing a sample, they probably got it mixed in
14 with whatever plume happened to be in the space at the
15 time.

16 MICHELLE HART: Is that all the information
17 that you have for us at this time?

18 RICK LENTZ: Currently, yes.

19 MICHELLE HART: Okay, and can I get your
20 name again and a contact number in case we need to get
21 in contact with you again?

22 RICK LENTZ: Sure, my name is Rick Lentz,
23 L-E-N-T-Z.

24 MICHELLE HART: L-E-N-T-Z. okay.

25 RICK LENTZ: I'm the Director of

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1 Radiological controls for Naval Reactors and my number
2 is 202 --

3 MICHELLE HART: 202.

4 RICK LENTZ: -- 781 --

5 MICHELLE HART: 781.

6 RICK LENTZ: -- 5993.

7 MICHELLE HART: 5993.

8 RICK LENTZ: And if I am not here, my relief
9 for the back shift here will be George Davenport.

10 MICHELLE HART: Okay.

11 RICK LENTZ: D-A-V-E-N-P-O-R-T. And he can
12 be reached at the same extension.

13 MICHELLE HART: Okay. And that first name
14 again was?

15 RICK LENTZ: George.

16 MICHELLE HART: I'm sorry, George?

17 RICK LENTZ: George.

18 MICHELLE HART: Okay. All right, thank you
19 very much.

20 RICK LENTZ: No problem, take care.

21 MICHELLE HART: Yes, you, too.

22 RICK LENTZ: Bye.
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(CONFERENCE CALL INITIATED)

MICHELLE HART: NRC, this is Michelle Hart
in the PMT.

TONY ULSES: Yes, this is Tony Ulises calling
in. How you doing?

MICHELLE HART: I'm good, how are you?

TONY ULSES: Fine, thanks. I'm going to
walk back over to the embassy. Hey, I want to pass on
some information out here I just received, staff from
Yokosuka called me and woke me up a little bit ago indicating
that their rad monitors down there on several of their
assets are beginning to pick up some micro becherel levels
of activity.

Best I can tell from the e-mail,

(b)(5)

(b)(5)

I called his number back and it's not a good
number. So I just wanted to see if you guys are getting
any other reports about any activity measurements?

MICHELLE HART: This is in Yokosuka?

TONY ULSES: Yes, just south of Tokyo.

MICHELLE HART: South of Tokyo.

TONY ULSES: I'm going to keep trying to

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1 get a hold of this guy.

2 MICHELLE HART: let me see. And you said
3 it was micro becherel?

4 TONY ULSES: Yes, I forwarded you guys the
5 e-mail, okay, that I got.

6 MICHELLE HART: Okay.

7 TONY ULSES: I'll forward it to the liaison
8 team, that's the only e-mail address that I have, so
9 just go get it from them, all right?

10 MICHELLE HART: All right, thank you.

11 TONY ULSES: And I'm going to keep trying
12 to get a hold of this guy, name is something O'Malley
13 and we'll hook up in a title bit after I get a hold of
14 this guy, all right?

15 MICHELLE HART: All right. Thank you.

16 TONY ULSES: All right, it's on the way now.

17 MICHELLE HART: Thank you.

18 TONY ULSES: Bye.

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(CONFERENCE CALL INITIATED)

VINCE HOLOHAN: NRC, Vince Holohan.

TONY ULSES: hey Vince, it's Tony Ulises calling.

VINCE HOLOHAN: Hey, Tony, what's up?

TONY ULSES: Not much. Are you guys, is this the Protective Measures Team?

VINCE HOLOHAN: Yes, it is.

TONY ULSES: Did you guys get that e-mail that I sent you?

VINCE HOLOHAN: We got your e-mail.

TONY ULSES: Okay, I realized those activity measurements are extremely low. What I asked, I called back there and talked to the guy on the Ops desk and asked him if they have the ability to get any met data, thinking that you guys would eventually need that to be able to make heads or tails of that, so they're trying to get me contact information.

VINCE HOLOHAN: Tony, the --

TONY ULSES: (b)(5)

(b)(5)

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1 Apparently right now what's happening is,
2 the folks down at the base are talking to the ambassador
3 and general Fields, actually regarding that question
4 of whether they should take some sort of protective action
5 down there, so we'll wait and see what happens there,
6 but I just wanted to call and give you the latest.

7 VINCE HOLOHAN: Okay, so Tony, do you know
8 if they can confirm the thyroid doses and the TEDE doses
9 over a 12-hour period?

10 TONY ULSES: I'm not really sure, but you
11 know, what I need to do is get you guys a direct com
12 link with them. I have a DSM line for the guy at the
13 ops desk, but I'll call him back after we're done here
14 and see if I can get a direct line.

15 VINCE HOLOHAN: The reason I bring this up
16 is, you know, we've got RASCAL. RASCAL is good to about
17 15 miles, and we're really pushing the limits on what
18 we can do. And we shared the e-mail that you sent us.

19 We also got a phone call from the folks down
20 at Navy Reactors with some complementary information,
21 it's probably coming out of the same reporting. And
22 needless to say, the chairman is very concerned right
23 now that if DoD or at least the Navy is talking about
24 taking additional protective measures, have we given
25 adequate guidance to the ambassador in what we should

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1 be doing with American citizens that are in Tokyo?

2 TONY ULSES: That's my concern as well.
3 I share the same concerns.

4 VINCE HOLOHAN: So needless to say, we're
5 trying to run some calculations right now to see if we
6 can confirm or refute, but any additional information
7 you can send us would be greatly appreciated.

8 TONY ULSES: Okay, well what I'm trying to
9 get from the folks in Yokosuka is one, a number for the
10 people down there that can get you some met data. I
11 don't know if you need that, but I'm assuming you would.

12 And if you don't, tell me and I won't bother
13 pushing it anymore.

14 VINCE HOLOHAN: Well having some real
15 numbers would be nice. We've got projections that came
16 out of DoE, so, I mean, right now we're basically looking
17 at the winds coming out of the north, northeast from
18 Fukushima they should be heading right to Tokyo right
19 now.

20 The other thing is, they should continue
21 more to the east for a period of time as this front goes
22 through, and then the wind direction's reversing again.

23 TONY ULSES: All right. And I'm going to
24 try and also, you need to talk to the people who took
25 these measurements, or rather, put this stuff together

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1 to make sure you understand what the numbers mean? Is
2 that what I thought I heard as well?

3 VINCE HOLOHAN: That's it.

4 MALE PARTICIPANT: Hey, the chairman needs
5 help.

6 VINCE HOLOHAN: All right.
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(CONFERENCE CALL INITIATED)

TONY ULSES: You guys there?

MICHELLE HART: Yes, we're still here.

Vince had to go in the other room for the chairman.

This is Michelle Hart.

TONY ULSES: Okay, well can you answer my question? Do you guys need to talk to the folks down in Yokosuka that put these measurements together to try and better understand them? Because I can try to get that information as well.

MICHELLE HART: If you can try to get us hooked up with them, that would be great.

TONY ULSES: Okay, it's probably going to be a DSN line. I hope you guys have that capability in the Ops Center, I don't know.

MICHELLE HART: I don't know, either.

TONY ULSES: Because these guys, these guys talk DSN. I'm going to call this guy back right now and I'll get back to you, all right? Give me a minute.

MICHELLE HART: All right. Thank you, Tony.

TONY ULSES: All right. Actually, you know, hold, can you connect me with the Reactor Safety Team real quick? I need to ask them a question.

MICHELLE HART: I don't think I can do this

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1 from this phone, but I can do --

2 MALE PARTICIPANT: I can --

3 MICHELLE HART: We can bring somebody over?

4 We can bring somebody over.

5 TONY ULSES: Hold on.

6 MICHELLE HART: Tony Ulises on the phone.

7 BILL: Hey, Tony.

8 TONY ULSES: Oh, is this Bill?

9 BILL: The one and only.

10 TONY ULSES: Hey, Bill. I heard last night
11 that there was another explosion at Unit 2?

12 BILL: Yes.

13 TONY ULSES: Any idea what happened?
14 Because they had taken the roof off the building and
15 they shouldn't have had any hydrogen buildup following
16 that.

17 BILL: Well, they had, apparently, this
18 hydrogen explosion and as a result of the explosion they
19 lost pressure and the suppression pool went down from
20 three atmospheres to one atmosphere, essentially
21 equalized.

22 TONY ULSES: Oh, that's not good.

23 BILL: Now, they, you know, people are
24 theorizing that it was sort of a, you know, that the
25 containment is fractured. And the question I'm asking

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1 is, maybe it was just the relief valve. The vacuum breakers
2 on the suppression pool that lifted and somehow, you
3 know, stuck open or something, and then they got them
4 shut.

5 TONY ULSES: Yes, because I specifically
6 talked to that fellow last night, from NISA, I think
7 he was, and he told me specifically that they had taken
8 a large chunk of the roof off of the building, of the
9 reactor building at Unit 2.

10 What I need to do, Bill, on that is, I've
11 been, (b)(5)
12 see if I can figure out what's going on.

13 BILL: Okay. Hold on a second here. Okay
14 so anyway, that's my theory anyway, that somehow the,
15 you know, it was related to, that they did have an explosion
16 is related to the vacuum breakers and somehow there's
17 debris, maybe, an explosion, and the vacuum breaker stuck
18 open. You know what I'm talking about, right? The --

19 TONY ULSES: Yes, I understand. I
20 understand. So basically that violates the integrity
21 of primary containment, right? Once they can close that,
22 is that correct?

23 BILL: That's correct. And have you ever
24 seen these vacuum breakers?

25 TONY ULSES: No.

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1 BILL: Yes, it's just a big check valve and
2 there's a weight on it that keeps it, you know, it's
3 like, I think, I want to say some fraction of a pound
4 difference, right? And it's actually there to prevent
5 the collapse of the suppression pools.

6 So one would think if you had an explosion
7 near this vacuum breaker, it would pop open.

8 TONY ULSES: Yes, I agree. Well, you know,
9 ultimately we're not going to know, but the bottom line
10 is, they had an explosion and sounds like they lost primary
11 containment in Unit 2. Okay, all right Bill, thanks,
12 I got to get back to these navy guys and try and find
13 out what's going on down at Yokosuka.

14 BILL: Hey, hey, you heard about this 20
15 millirem, right?

16 TONY ULSES: Negative. What? Where is it?

17 MICHELLE HART: It was in the e-mail you
18 just sent us.

19 TONY ULSES: The what? Well, shit, I didn't
20 read my own damn e-mail, I guess. God dang it.

21 BILL: Why don't you read it to him?

22 TONY ULSES: I thought I saw 20, did I see
23 20 mr in here, is that what I was reading? I thought
24 it was 2.

25 MICHELLE HART: 20 mr TEDE, 120 mr thyroid.

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1 TONY ULSES: Yes, that's, I'm sorry, over
2 a 12-hour period.

3 BILL: You left out a period?

4 TONY ULSES: No, no, no, over a 12-hour
5 period.

6 BILL: But it's still, but this is what,
7 a hundred miles away?

8 TONY ULSES: Yes, roughly, or even, yes,
9 roughly, to the south.

10 BILL: You can imagine. If they're reading
11 roughly a little less than 2 millirem an hour, you know,
12 a hundred miles away, what the heck is it at the plant?

13 TONY ULSES: I don't know, we're trying to,
14 at this point I think we're trying to figure out how
15 to get that information. So okay, well, sorry, but I
16 got to go, I got to call these navy guys back.

17 BILL: Hey, sir thanks.

18 TONY ULSES: All right, thanks, bye.
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(CONFERENCE CALL INITIATED)

LOURDES (PHONETIC): NARAC, this is Lourdes,
may I help you?

MICHELLE HART: Yes, this is Michelle Hart
at the NRC Headquarters, PMT.

LOURDES: Michelle?

MICHELLE HART: Yes.

LOURDES: Michelle Hart?

MICHELLE HART: That is correct.

LOURDES: Yes. May I help you?

MICHELLE HART: Yes, we have some
information we've gotten from a Navy base in Japan about
some airborne radioactivity. We've converted it into
TEDE and thyroid doses and we wanted to see if there
was something that you could do to help us to confirm
these rates based on what we know in the plant now.

LOURDES: Oh, okay. Now, are you working
with someone here in the NARAC center, or?

MICHELLE HART: We were working with -- do
we have a contact name?

MALE PARTICIPANT: For NARAC?

MICHELLE HART: No, we don't.

MALE PARTICIPANT: Is that an extension,
4603?

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1 MICHELLE HART: We have extension 4603, we
2 don't have a name, for some reason.

3 LOURDES: Yes, unfortunately that's, and
4 did you want to add additional information to one of
5 our plots or you haven't seen the plots?

6 MICHELLE HART: I have seen some of the recent
7 plots, you know.

8 LOURDES: And you said this is Michelle?

9 MICHELLE HART: Michelle, yes.

10 LOURDES: And you're with the NSC?

11 MICHELLE HART: NRC, Nuclear regulatory
12 Commission.

13 LOURDES: NRC? Just one minute, please,
14 thank you.

15 MICHELLE HART: Thank you. I'm sorry. I've
16 confused her.

17 MALE PARTICIPANT: Get her number, so if
18 we call back.

19 MICHELLE HART: Right. I have the contact.

20 BRENDA POBANZ: Hi, this is Brenda Pobanz
21 at NARAC. You have some monitoring data from Japan?

22 MICHELLE HART: That is correct, yes.

23 BRENDA POBANZ: Okay, what, you have times,
24 locations?

25 MICHELLE HART: We have some information

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1 from the George Washington carrier at the Yokosuka base
2 and do we have a lat and long on that that we can give
3 them, or can you get that information?

4 I'm asking you.

5 BRENDA POBANZ: Yes, to make it work, we
6 kind of need lat, long, time it was taken, value, units.

7 MICHELLE HART: Right. Now what we have
8 is the data was taken on March 15 at 0700.

9 BRENDA POBANZ: Okay, is that local?

10 MICHELLE HART: I'm assuming that's local,
11 it does not say that specifically. It was airborne
12 radioactivity and we have 6,000 corrected counts per
13 minute. And they have in parentheses, (1.5 x 10⁻⁸
14 microcuries per milliliter).

15 BRENDA POBANZ: Let me, hang on for a second.
16 Kevin, the NRC is giving some data from the George
17 Washington. Is this the same data that you have, the
18 6,000 counts per second? Take it?

19 KEVIN: Sure.

20 BRENDA POBANZ: Okay, okay, sorry, I'm just
21 double checking here that we don't have it already and
22 I'm writing it down on another sheet of paper. Okay,
23 so I'm sorry, 6,000?

24 MICHELLE HART: Corrected counts per minute.

25 BRENDA POBANZ: Counts per minute, okay.

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1 MICHELLE HART: That's correct.

2 BRENDA POBANZ: Okay, 1.5 unit minus 8
3 microcuries per milliliter?

4 MICHELLE HART: That's correct.

5 BRENDA POBANZ: Okay.

6 MICHELLE HART: We have another one, 7 x
7 10⁻⁹ microcuries per milliliter. And they said that
8 this was result of a dose in a 12-hour period of 20 millirems
9 TEDE and 120 millirem thyroid CBE.

10 BRENDA POBANZ: Right, okay, millirem.

11 MICHELLE HART: Now of course, we're trying
12 to verify these does. We did not have the isotopic or
13 any of that information. This is gross airborne
14 radioactivity.

15 BRENDA POBANZ: Okay.

16 MICHELLE HART: And do we have the lat and
17 long? We have it, it's 35 degrees, 17.1 minutes north,
18 139 degrees, 40.4 minutes east.

19 BRENDA POBANZ: Okay. Thank you.

20 MICHELLE HART: And I'm sorry, who is this
21 I was talking to again?

22 BRENDA POBANZ: This is Brenda Pobanz.

23 MICHELLE HART: Okay. And spell your last
24 name?

25 BRENDA POBANZ: P-O-B-A-N-Z.

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1 MICHELLE HART: A-N-Z. Okay. And do you
2 have an approximate time that you think you might be
3 able to figure this all out?

4 BRENDA POBANZ: Well it's, you know, the
5 model runs are taking an awfully long time because we're
6 starting back from when the first one went and trying
7 to follow it the whole time. So it's going to take us
8 a couple hours.

9 MICHELLE HART: Okay.

10 BRENDA POBANZ: To figure all this out and
11 get a model run down that we can compare it to. Okay?

12 MICHELLE HART: Okay. And you were aware
13 of the second building, which is --

14 BRENDA POBANZ: The news is saying that yes,
15 are you aware of it being, is it another hydrogen explosion
16 or have you heard that it's another kind?

17 MICHELLE HART: I don't think it's the same
18 kind of explosion we saw before. Do you want to add
19 something, Vince, or? We don't really know. It seemed
20 to be for a slightly different reason than the previous
21 explosion.

22 VINCE HOLOHAN: The big difference right
23 now is, we've had a significant shift in the met data
24 so that the wind is now coming out of the north, northeast
25 and there's quite a bit of concern right now.

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1 We're trying to get information back to the
2 US embassy in Japan, so the question is, about the
3 protective status recommendations to US nationals there.

4 BRENDA POBANZ: Right, okay.

5 MICHELLE HART: So is this enough
6 information, or would you need additional?

7 BRENDA POBANZ: Well, we have various pieces
8 of information, so we're sort of adding this to everything
9 we have and trying to sort it all out, okay?

10 MICHELLE HART: All right.

11 BRENDA POBANZ: Okay, thank you guys.

12 MICHELLE HART: Thank you.

13 BRENDA POBANZ: Bye-bye.

14 MICHELLE HART: Bye.
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(CONFERENCE CALL INITIATED)

OPERATOR: Thank you. You will now be added to the conference.

MICHELLE HART: Hello, this is Michelle Hart from the NRC Headquarters Operations Center.

MALE PARTICIPANT: George, can we get together --

MICHELLE HART: Is there anyone on this line?

MALE PARTICIPANT: -- (inaudible) discussion here so we all focus on the big problem we have?

MAX HIGGINS (PHONETIC): Met station, this is Max Higgins (phonetic).

MICHELLE HART: Yes, I was given this number to get information -- I'm on a call here, excuse me -- I had this number to get information on some rad doses, reactivity readings we had from the Yokosuka base.

MAX HIGGINS: The Naval Reactor ECC will provide that data separately.

MICHELLE HART: I'm sorry. Say that again?

MAX HIGGINS: Naval Reactor's ECC will provide that data to you separately.

MICHELLE HART: Well, I had some questions about the data and how the doses were calculated. Is

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1 there somebody I can call to ask those specific questions
2 about how these were, to verify these numbers and see
3 how those millirems were analyzed? The assumptions that
4 went into that?

5 D.W. (PHONETIC): Max, this is D.W.
6 (phonetic), you ready for a 1000 APD reading?

7 MAX HIGGINS: D.W. this is Max standing by.

8 D.W.: Number one, 9.7 for the minus 11.
9 Number 3, 1.2 for the minus 10. And I won't be able
10 to give you flight deck data until about 10:15. We had
11 to get some guys up there with radios for communication.

12 MAX HIGGINS: Okay, understand. Number 1,
13 9.7×10^{-11} , and number 3 is 1.2×10^{-10} and flight deck
14 data to be provided in 10 to 15 minutes.

15 D.W.: Correct.

16 MAX HIGGINS: Is the NRC still on the line?

17 MICHELLE HART: The NRC is still here.

18 MAX HIGGINS: We talked separately about
19 the information, but I can give you a number for that.

20 MICHELLE HART: Okay, thank you.

21 MAX HIGGINS: You ready?

22 MICHELLE HART: Yes, I'm ready.

23 MAX HIGGINS: 202-781-5983.

24 MICHELLE HART: Is there a person's name?

25 MAX HIGGINS: John Halverson.

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MICHELLE HART: John Halverson? Thank you.

Sorry.

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(CONFERENCE CALL INITIATED)

MICHELLE HART: I got to call this guy.

MALE PARTICIPANT: Director's office.

MICHELLE HART: Yes, this is Michelle Hart
at the NRC Headquarters Operations center.

MALE PARTICIPANT: Sorry, Michelle who?

MICHELLE HART: Michelle Hart.

MALE PARTICIPANT: Hart? H-A-R-T?

MICHELLE HART: That's correct. I'm the
Radiological Assessment Assistant Director and we have
received some data from passed through one of our employees
in Japan from a Richard O'Malley out at Yokosuka.

MALE PARTICIPANT: Right.

MICHELLE HART: And we wanted to verify the
numbers that were given and see if you can give us some
additional information on how the TEDE and thyroid doses
were calculated that were given to us.

MALE PARTICIPANT: Okay. I'll do the best
I can. If I can't, I will find someone who can.

MICHELLE HART: Okay. This was
radiological data that was from the George Washington
and the nearby barge that was taken at approximately
0700 on 15 March.

MALE PARTICIPANT: Is that Japan time?

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1 MICHELLE HART: Yes. I believe so, anyway.
2 It does not say. The barge had 6,000 counts per minute.

3 MALE PARTICIPANT: Right, on top of it, yes.

4 MICHELLE HART: Right, airborne
5 radioactivity, and that was 1.5 e minus 8 microcuries
6 per ml.

7 MALE PARTICIPANT: 1.8 to the negative, I'm
8 sorry, what?

9 MICHELLE HART: Yes, 1.5 10 to the minus
10 8 microcuries per milliliter. Does that sound, is that?

11 MALE PARTICIPANT: Yes, those data points
12 are consistent with what I have in our system.

13 MICHELLE HART: And then one from the George
14 Washington itself, 7, 10 to the minus 9 microcuries per
15 milliliter.

16 MALE PARTICIPANT: Right, that was at 1700
17 Eastern Time, so 600 local. Or? Yes, I suck at this
18 conversion, 1600 local, I think.

19 MICHELLE HART: Yes, it says 0700, that's
20 probably --

21 MALE PARTICIPANT: Okay, might be right.

22 MICHELLE HART: And then the (inaudible)
23 12 area was 450 picocuries for the (inaudible), so.

24 MALE PARTICIPANT: So that's yes, that's
25 one reading from the same time period, which we've found

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1 higher than that more recently, I'm getting that data
2 together for you guys.

3 MICHELLE HART: Yes, we would be interested
4 in more recent data.

5 MALE PARTICIPANT: I am putting that
6 together as we speak.

7 MICHELLE HART: The e-mail also had that
8 the radioactivity for would result in the following dose
9 of our 12-hour period and it says 20 millirem TEDE and
10 120 millirem CDE thyroid.

11 MALE PARTICIPANT: 120 thyroid?

12 MICHELLE HART: 120 millirem thyroid.

13 MALE PARTICIPANT: That doesn't sound right.

14 MICHELLE HART: And that particular
15 information as well is concerning us here and we wanted
16 to try to verify how this was calculated. You know,
17 we don't have the isotopic, you know, how were those
18 previous numbers converted into those? Do you have any
19 additional information on that?

20 MALE PARTICIPANT: I believe I can walk you
21 through that. All right, working off of isotopic data
22 we have from swipes off the helicopter from yesterday,
23 I'm not sure, what we call modified probably (inaudible)
24 mixture.

25 MICHELLE HART: Okay, where was the

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1 helicopter located?

2 MALE PARTICIPANT: The helicopters flew
3 through, we believe to be the plume direction. It landed
4 at Atsugi Base where we took the swipes.

5 MICHELLE HART: Okay. Do you know how far
6 it was from the Fukushima plant?

7 MALE PARTICIPANT: I don't have that data
8 except anecdotally.

9 MICHELLE HART: Okay. So it was intended
10 to fly through the plume?

11 MALE PARTICIPANT: Right, it was going to
12 land within the 50 mile region.

13 VINCE HOLOHAN: So it was in a 50-mile region.
14 Okay.

15 MICHELLE HART: Okay, thank you.

16 MALE PARTICIPANT: And I believe we provided
17 the isotopic data to NRC yesterday.

18 MICHELLE HART: Okay, so it's the same
19 isotopic information from yesterday?

20 MALE PARTICIPANT: Yes.

21 MICHELLE HART: Do you know what time you
22 provided that?

23 MALE PARTICIPANT: See, NRC, DoE I did it
24 at 0530 yesterday. NRC I believe I provided it before
25 then, but I'd have to verify. I didn't do that physical

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1 transfer.

2 MICHELLE HART: Okay.

3 MALE PARTICIPANT: We can send it again if
4 you guys need it again.

5 MICHELLE HART: That would be great, instead
6 of searching through our files.

7 MALE PARTICIPANT: Right. Do you have a
8 fax number?

9 MICHELLE HART: See the fax number anywhere?
10 We'll get that for you.

11 VINCE HOLOHAN: Was that 20 milligrams and
12 120 milligrams based on where the helicopter was when
13 it went through the plume? Or was (inaudible) Fukushima?
14 At the (inaudible). That's a big difference.

15 MALE PARTICIPANT: I'm not sure we're saying
16 20 thyroid. I think we're saying a hundred thyroid based
17 on --

18 MICHELLE HART: On more recent?

19 MALE PARTICIPANT: Based on ICRP, just
20 conversion from that dose.

21 MICHELLE HART: Oh, it's the same
22 information?

23 MALE PARTICIPANT: Right.

24 MICHELLE HART: Now these doses that were
25 calculated that I had mentioned earlier, would that be

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1 more related to where the helicopter was if you had looked
2 at that, or where the base is?

3 MALE PARTICIPANT: Essentially we backed
4 it out using dispersion calculations and correlating
5 with direct gamma readings we got from CVN 76 and airborne
6 data there. So to use the CVN 76 airborne data is downwind,
7 worked dispersion back in, created a range of distances,
8 and then we used the distance as best applied to Yokosuka.

9 MICHELLE HART: Okay.

10 MALE PARTICIPANT: I believe that was the
11 150-mile distance. (Inaudible) distance. So using that
12 is how we determined what the dose rates would be for
13 that period, assuming a 12-hour vent.

14 MICHELLE HART: Okay, so those are intended
15 to show what the dose rates would be at Yokosuka?

16 MALE PARTICIPANT: Right. Assuming
17 they're the same mixture.

18 VINCE HOLOHAN: Do they have real met data?

19 MICHELLE HART: Do you have any real met
20 data, you know, recent readings?

21 MALE PARTICIPANT: I'm sorry, I'm not
22 familiar with the term, met data.

23 MICHELLE HART: Meteorological data, wind
24 speed, direction.

25 MALE PARTICIPANT: Not that we've integrated

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1 into our calculations, no.

2 MICHELLE HART: Okay.

3 VINCE HOLOHAN: (Inaudible).

4 MICHELLE HART: I think we've got that fax
5 number for you. It is area code 301-816-5151. And put
6 attention to PMT.

7 MALE PARTICIPANT: PMT?

8 MICHELLE HART: That's correct.

9 MALE PARTICIPANT: Okay. I'll send our data
10 as well as our isotopic with that.

11 MICHELLE HART: All right. And so you'll
12 have more recent data than this?

13 MALE PARTICIPANT: Yes, we've got that up,
14 including that up, until mid load. Most recent data
15 is about 2046 Eastern Time.

16 MICHELLE HART: 2046 Eastern? Okay, thank
17 you.

18 MALE PARTICIPANT: All right.

19 MICHELLE HART: All right, I think that's
20 all the information that we wanted for now. Are you
21 a good contact for this sort of information if we have
22 a question in the future?

23 MALE PARTICIPANT: Yes.

24 MICHELLE HART: Okay, thank you very much.

25 MALE PARTICIPANT: You.

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MICHELLE HART: Bye.

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(CONFERENCE CALL INITIATED)

MICHELLE HART: This is Michelle Hart, The Headquarters PMT.

MARK ROLLINS (PHONETIC): This is Mark Rollins (phonetic), Headquarters Operations Officer. I've got Paul Holland on the line from Exelon. He was asked to call in for the PMT.

MICHELLE HART: Okay, thank you.

MARK ROLLINS: Connecting him now.

PAUL HOLLAND: Hello?

MICHELLE HART: Hello.

PAUL HOLLAND: Hello, this is Paul Holland from Exelon Corporation. I received a phone call from a Chip Pardee that the NRC asked to talk to me about the dose assessment results from over in Japan, something about a ship offshore, military?

MICHELLE HART: Yes.

PAUL HOLLAND: Pardon me?

MICHELLE HART: Excuse me. I'm sorry, say that again?

PAUL HOLLAND: yes, I was asked to call the NRC about some doses from off site from over in Japan.

MICHELLE HART: Was this work that you had done for naval Reactors or something, or what is this?

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1 PAUL HOLLAND: No, this has to deal with,
2 apparently the NRC, it was reported to the NRC that on
3 a ship offshore, military ship, 80 miles out is what
4 I was told, they, yes, they'd received like a 20 millirem
5 over 12 hours?

6 MICHELLE HART: Yes, that is what the
7 information that they had given us.

8 PAUL HOLLAND: Okay, and my question is,
9 since I was told to call here and offer up any assistance
10 that I could in terms of dose assessment.

11 MICHELLE HART: he said that he was told
12 to call us and offer any dose assessment assistance.

13 PAUL HOLLAND: yes, by Chip Pardee from
14 Exelon Corporation.

15 CATHY HANEY: Yes, this is Cathy Haney.
16 I believe our call went from our executive team and through
17 the various channels to get down to you. And I think
18 what they were looking for was from the standpoint of,
19 just from verification or I guess, more confirmation
20 of some doses based on some deposition rates that we
21 had.

22 So if we give you what numbers we have from
23 Naval Reactors, I guess what we're curious is, if you
24 guys can do some calculations to see what dose measurement
25 you would come up with?

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1 PAUL HOLLAND: Well, we can try, sure.

2 CATHY HANEY: Okay, so these are, again,
3 it's just, you know, multiple sources, the validity of
4 these numbers are being questioned, but what I'll do
5 is have Michelle just give you the numbers and if you
6 want to just do a, you know, see what you guys come up
7 with, that would be great.

8 PAUL HOLLAND: So let me ask you this
9 much -- this is contamination on individuals or was this --

10 CATHY HANEY: No, it's contamination on the
11 Navy base that's south of Tokyo.

12 PAUL HOLLAND: Okay.

13 MICHELLE HART: They have taken air readings
14 and --

15 PAUL HOLLAND: I'm writing this down, so
16 just bear with me for a minute, here.

17 MICHELLE HART: Sure.

18 CATHY HANEY: I'm going to put you on mute
19 for one second.

20 PAUL HOLLAND: That's fine.
21
22
23
24
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(CONFERENCE CALL INITIATED)

MICHELLE HART: Okay, I'm back. This is Michelle Hart. I'll give you the information that we have gotten from Naval Reactors. These measurements were taken at the Yokosuka base, and I can give you a lat and longitude on that.

PAUL HOLLAND: Yes, could you spell that for me, please?

MICHELLE HART: Yes, it's Y-O-K-O-S-U-K-A. And it's south of Tokyo more or less and the latitude and longitude are 35 degrees, 17.1 minutes north, 139 degrees 40.4 degrees east.

PAUL HOLLAND: East, all right. Okay. And what kind of contamination levels did they see on the ground?

MICHELLE HART: Okay. We have a 1.5×10^{-8} microcuries per milliliter.

PAUL HOLLAND: Of?

MICHELLE HART: It's a mix of isotopes. It includes iodine and cesium. We are still, we are waiting for the isotopic mix, that's one of the unfortunate things about this analysis.

PAUL HOLLAND: You're right, that would help, but okay, so this is what they saw on an air sample,

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1 then?

2 MICHELLE HART: This is on an air sample.

3 I have another value from the ship nearby, 7×10^{-9} .

4 PAUL HOLLAND: I didn't get that. Seven
5 what?

6 MICHELLE HART: 7×10^{-9} .

7 PAUL HOLLAND: Oh, 7.0×10^{-9} to the minus zero
8 nine?

9 MICHELLE HART: That's correct.
10 Microcuries per milliliter.

11 PAUL HOLLAND: Okay, same thing, iodine and
12 cesium or they don't know yet, or what?

13 MICHELLE HART: It's the same isotopic mix,
14 they're assuming, but we haven't gotten that mix, so
15 yes, it's iodine and cesium. They calculated a dose
16 of 20 millirem TEDE and 120 millirem CDE thyroid. And
17 we're trying to verify those numbers, the doses.

18 PAUL HOLLAND: Now, was this with, this is
19 just on their isotopic analysis or they're just assuming
20 this was all iodine when they did their --

21 MICHELLE HART: They did this with their
22 isotopic and they also applied some dispersion from the
23 plant area of some sort because the isotopic are really
24 taken from a different location than the ship is located
25 now.

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1 There was a helicopter that they swiped that
2 went though the plume, that they believe.

3 PAUL HOLLAND: So what you're saying is,
4 is the helicopter went through the plume and took a sample
5 and then flew back to the base?

6 MICHELLE HART: The values that I gave you
7 were taken at the base. The isotopic mix was taken from
8 swiping the helicopter after it had flown through the
9 plume and came back to the base.

10 PAUL HOLLAND: Now all right, now I
11 understand, okay. So the two are, so how far was the
12 helicopter away from the base or the site when it went
13 through the plume?

14 MICHELLE HART: What they told us, it was
15 within 50 miles of the site, the reactor site.

16 PAUL HOLLAND: Okay, so it's probably
17 somewhat representative of what they have at the base,
18 then.

19 MICHELLE HART: We would think so, and of
20 course, we're still waiting for them to send us the isotopic
21 mix, but I think, you know, we've done some analysis
22 here assuming that it's all iodine or it's iodine-131
23 or it's all cesium-137, so I'll let you make that decision
24 on how you want to handle that.

25 PAUL HOLLAND: Well, I can't, yes, I mean,

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1 I can still make the call. And they're saying this was
2 taken over a 12-hour period? Is that correct? The dose
3 that they calculated?

4 MICHELLE HART: The calculation of the doses
5 for a dose over a 12-hour period, that's correct.

6 PAUL HOLLAND: Now, do they by chance have
7 any copies, or could I get copies or information about
8 how they did their calculations?

9 MICHELLE HART: They have not provided that
10 to us and so I can't get you that information.

11 PAUL HOLLAND: All right, okay. I'm just
12 curious as to what they used for conversion factors,
13 so it's conversion factor. I'm assuming they probably
14 used Part 20 conversion factors?

15 MICHELLE HART: I am not sure. They did
16 mention something that they got a different, they got
17 a hundred millirem thyroid when they used ICRP 30. So
18 the 120 is apparently not ICRP 30.

19 PAUL HOLLAND: Yes, but the difference there,
20 we're splitting hairs, it really doesn't matter. Yes.

21 MICHELLE HART: So I'm assuming that they're
22 using the ICRP (inaudible) conversion factor.

23 PAUL HOLLAND: Okay. So how soon do you think
24 it will be until you get the actual --

25 MICHELLE HART: The isotopic mix?

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1 PAUL HOLLAND: Yes.

2 MICHELLE HART: It looks like we just got
3 it, so let me see, I'll look through it real quick ad
4 let you know what it says.

5 PAUL HOLLAND: All right. And you wouldn't
6 know how far the base is actually from the power plant,
7 would you?]

8 MICHELLE HART: It's approximately 179
9 miles.

10 PAUL HOLLAND: Miles, not kilometers?

11 MICHELLE HART: Yes, we're using miles on
12 that one.

13 PAUL HOLLAND: All right, so we'll round
14 it to 180 miles, how's that sounds?

15 MICHELLE HART: That sounds fabulous. Okay
16 I'm looking at this report and they did identify, is
17 it this one? We have iodine-131, iodine-132,
18 tellurium-132, iodine-133, cesium-134, and cesium-137.

19 PAUL HOLLAND: Do you have numbers for those?

20 MICHELLE HART: I have. I can give you a
21 weight mean activity?

22 PAUL HOLLAND: All I really need is, there
23 should be a concentration for each one of those,
24 microcuries per ml or something like that?

25 MICHELLE HART: Let's see. Maybe I'm

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1 looking at the wrong sheet. I have something that says
2 picocuries per ea. I don't know what ea is. Sample
3 quantity 1 ea. So it's one each.

4 PAUL HOLLAND: I'm sorry, one what?

5 MICHELLE HART: One ea. I don't know what
6 an ea is, but it says quantity is 1 ea.

7 PAUL HOLLAND: Well, it could just be one
8 each, one of one sample, that type of thing.

9 MICHELLE HART: Five hundred milliliter
10 bottle.

11 PAUL HOLLAND: Okay. Oh, a bottle.

12 MICHELLE HART: Yes.

13 PAUL HOLLAND: Okay, so now how did they
14 get this into a bottle? Because a bottle implies an
15 air sample. With air samples, particularly particulate
16 fillers and iodine (inaudible). Bottle implies somebody
17 went out and filled up a 500 ml marginally beaker or
18 something and counted it. That's significantly
19 different.

20 MICHELLE HART: Right, yes. That 's what
21 it says under the title calibration file. So I don't
22 know exactly what that means, but I can tell you what
23 the picocuries are for each of those isotopes.

24 PAUL HOLLAND: The picocuries?

25 MICHELLE HART: Yes. Picocuries for the

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1 sample.

2 PAUL HOLLAND: Okay, so it's picocuries per
3 how many milliliters was it?

4 MICHELLE HART: It says 500 milliliters.

5 PAUL HOLLAND: Five hundred milliliters,
6 okay, so the picocurie values?

7 MICHELLE HART: For iodine-131, 2.872 n to
8 the plus zero three.

9 PAUL HOLLAND: Okay.

10 MICHELLE HART: Iodine-132 --

11 PAUL HOLLAND: Now these were picocuries
12 per liter or picocuries per 500 ml?

13 MICHELLE HART: Per 500 ml.

14 PAUL HOLLAND: Picocuries per 500 ml. all
15 right.

16 MICHELLE HART: So that was Iodine-131.

17 PAUL HOLLAND: Yes.

18 MICHELLE HART: This is Iodine-132, 1.477
19 e plus zero 3. Tellurium-132, 1.727 e to the plus zero
20 3.

21 PAUL HOLLAND: All right.

22 MICHELLE HART: Iodine-133, 9.920 e to the
23 plus zero 2.

24 PAUL HOLLAND: Zero 2? All right.

25 MICHELLE HART: Correct. Cesium-134,

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1 7.571 e --

2 PAUL HOLLAND: Stop, hold it, 7.571?

3 MICHELLE HART: That's correct.

4 PAUL HOLLAND: Okay, e?

5 MICHELLE HART: Yes, e to the plus zero 1.

6 PAUL HOLLAND: Zero 1, okay.

7 MICHELLE HART: And then cesium-137, 1.585
8 e to the plus zero 2.

9 PAUL HOLLAND: Zero 2?

10 MICHELLE HART: That's correct.

11 PAUL HOLLAND: Okay, now this was the sample
12 that was taken, this sample came from where?

13 MICHELLE HART: This came off of the
14 helicopter. And the sample was taken at the base, but
15 it had flown through the plume within 50 miles of the
16 plant.

17 PAUL HOLLAND: Okay, so, it's interesting
18 how they, how'd they get a whatever, 500 ml liter bottle,
19 okay, I'm not sure how they did that, I guess that --

20 MICHELLE HART: Maybe their calibration is,
21 the file name is not really what it is.

22 PAUL HOLLAND: Yes, this sounds like,
23 because the only thing you could do here is, I can't
24 imagine that the helicopter is airtight to the point
25 where they could do that and make it back.

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1 MICHELLE HART: They wiped down the door
2 for this one.

3 PAUL HOLLAND: Oh, so this is --

4 MICHELLE HART: Can I put you on mute for
5 a moment?

6 PAUL HOLLAND: Yes, you may.

7 MICHELLE HART: Thanks.
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(CONFERENCE CALL INITIATED)

MICHELLE HART: I'm sorry, I'm back.

PAUL HOLLAND: That's all right.

MICHELLE HART: So that is the information that we have. Is there any other information that you think I can give to you? I know it's all sketchy and very strange.

PAUL HOLLAND: Yes, well, and it sounds like you said, they took a smear of the helicopter or something, they came up with these many picocuries on the smear, right?

MICHELLE HART: That is correct, that's my understanding.

PAUL HOLLAND: I don't think there's any 500 ml. There may be 500 square centimeters or something like that.

MICHELLE HART: And if they did a standard swipe, it would be 100 cubic centimeters.

PAUL HOLLAND: One would think it'd be a hundred square centimeters, not 500.

MICHELLE HART: Yes, not cubic, but squared, excuse me.

PAUL HOLLAND: I'm sorry, what?

MICHELLE HART: You were correct, a hundred

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1 square centimeters is the standard.

2 PAUL HOLLAND: All right. Then again, you
3 don't know what they did. We're guessing here anyway,
4 right?

5 MICHELLE HART: We're guessing to a certain
6 degree, yes. This is just giving us an idea to a certain
7 degree as to the mix of these isotopic.

8 PAUL HOLLAND: But again, just so I can say
9 this, we have 1.5×10^{-8} microcuries per milliliter
10 on an air sample that's actually taken at the base, right?
11 And then we had 7×10^{-9} microcuries per ml
12 taken on a boat that was nearby, correct?

13 MICHELLE HART: That's correct.

14 PAUL HOLLAND: I take it it's one of the
15 Navy ships or something like that? So the two numbers
16 there match up relatively close.

17 MICHELLE HART: That's fair. We agree.

18 PAUL HOLLAND: Those two numbers were in
19 the ballpark with each other. And so what you're asking
20 for is some confirmation on the 20 millirem TEDE and
21 the 120 millirem CDE thyroid, right?

22 MICHELLE HART: That's correct.

23 MALE PARTICIPANT: Or, there's more to it.
24 If that is a measured dose, 170 miles from the plant,
25 then what would the dose be in Tokyo where --

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1 PAUL HOLLAND: Oh, and how far is Tokyo from
2 the plant?

3 MALE PARTICIPANT: It is about 160 miles.

4 PAUL HOLLAND: Oh, so it's generally the
5 same distance, right?

6 MALE PARTICIPANT: Yes.

7 PAUL HOLLAND: Well, okay, so here's the
8 problem with this is, if this is from a plume that's
9 being released, and I'm assuming the wind has been blowing
10 in this general direction the whole time? Is that correct?

11 MALE PARTICIPANT: Yes, assuming the worst
12 case scenario is actually yes, it's been blowing in the
13 same direction for a number of hours (inaudible)
14 individual that's standing there and inhaling this kind
15 of a concentration.

16 PAUL HOLLAND: Right, and on that, so you
17 say Tokyo is approximately 160 miles in the same general
18 direction from the site and the base is 20 miles further
19 out. Is that what you said?

20 MICHELLE HART: That's correct.

21 PAUL HOLLAND: All right, hang on, I'm
22 writing stuff down. And yes, okay, so the only issue
23 you have with trying to do this is that plume is going
24 to meander all over the place. And it is very difficult
25 to try to do that type of a guesstimate, to be honest

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1 with you.

2 MICHELLE HART: We are having the same issue,
3 so if there's just some additional independent
4 verification of our general findings, I think is what
5 we're looking for. Whatever help you can provide.

6 PAUL HOLLAND: Yes, without a direct
7 measurement, it is going to be extremely difficult to
8 come up with something. I would say, though, with that
9 kind of a distance, you would not see a huge difference
10 in the values.

11 In other words, it's not going to be like
12 it's going to jump from 20 millirem TEDE up to 2,000
13 millirem TEDE in that short of a distance. It's just
14 not going to happen.

15 MICHELLE HART: I would agree.

16 PAUL HOLLAND: Yes. It's going to be
17 relatively, it might be higher, but then again, it might
18 also be lower just because of how the wind is moving
19 and that type of a thing. (Inaudible)

20 MICHELLE HART: Based on the terrain and
21 all that stuff.

22 PAUL HOLLAND: Yes. So many factors could
23 get involved in those. I mean, we can do a quick check
24 on the iodine concentrations and the, I mean, from what
25 I've seen, 1.5 e to the minus 8 over 12 hours, the 20

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1 and 120 are probably in the ballpark, but, pardon me?

2 MICHELLE HART: Yes, I agree.

3 PAUL HOLLAND: Yes, I mean, 1.5 e to the
4 minus 8 is, that's a lot of airborne activity. Now they're
5 sure they didn't cross contaminate the sample or anything
6 else?

7 MICHELLE HART: I cannot verify whether they
8 have or haven't cross contaminated anything.

9 PAUL HOLLAND: Well that might be one of
10 the questions that you want to ask them, you know, I
11 mean, that's a lot of activity for almost 200 miles away.

12 MICHELLE HART: Right. Well, the isotopic,
13 well I don't know, excuse me, we don't want to talk about
14 that. Strike that.

15 PAUL HOLLAND: Okay, what I'm talking about
16 is the 1 e minus 8 microcuries per ml. that's a lot
17 of activity to be that far out.

18 MICHELLE HART: That far downwind? I agree.
19 We agree.

20 PAUL HOLLAND: I'd like to see it much, much
21 lower than that, but that's why I'd really be curious
22 to see what their actual sample collection sheets and
23 their calculation stuff. I don't know if I'm being a
24 whole lot of help to you here.

25 MICHELLE HART: I understand. Any help that

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1 you can provide would be appreciated.

2 PAUL HOLLAND: Yes, well I understand. Well
3 let me sit here and ponder on this for awhile. And can
4 I call you back, then?

5 MICHELLE HART: You can, yes.

6 PAUL HOLLAND: And this is Michelle Hart,
7 correct?

8 MICHELLE HART: That's correct, and I'm in
9 the PMT.

10 PAUL HOLLAND: In the PMT?

11 MICHELLE HART: That's correct.

12 PAUL HOLLAND: Okay, and is the number
13 301-816-5100 still good number, right?

14 MICHELLE HART: That's correct, that'll
15 connect you to our Headquarters Operations Officer.

16 PAUL HOLLAND: Okay, well I'll see what I
17 can do, I'll make a few phone calls, get some confirmation
18 from some people that I know and we'll get back to you,
19 okay?

20 MICHELLE HART: Okay, thank you.

21 PAUL HOLLAND: You're welcome.

22 MICHELLE HART: All right, bye-bye.

23 PAUL HOLLAND: Bye.
24
25

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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center, Greg
Casto.

CHUCK TAYLOR (PHONETIC): Hey Mr. Casto,
this is Chuck Taylor over at the USAID. We were calling
because they had requested that, we're having trouble
getting in touch with, getting DoE to send us a liaison
over here.

GREG CASTO: Over to USAID?

CHUCK TAYLOR: Yes sir, and they been trying
to call the DoE Operations Center and we haven't gotten
any results from them yet.

GREG CASTO: What was the, I can confirm
the number of the NIT with you, which is 202-586-8100.

CHUCK TAYLOR: Okay, 586-8100?

GREG CASTO: That's correct.

CHUCK TAYLOR: That's their Ops Center number,
right?

GREG CASTO: That's correct. That's in
there, NIT, though.

CHUCK TAYLOR: Oh, okay, so that's the only
way you know that you can contact them and --

GREG CASTO: Well, that's who we've been
in communication with. As far as what you're asking

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1 for, I'm not sure if they're the right contact. But
2 the NIT has been, at least until recently, last time
3 we've contacted them, good to pick up the phone.

4 They might be able to help you find the right
5 source to make that request.

6 CHUCK TAYLOR: Okay. Well, we'll try that.

7 Thank you.

8 GREG CASTO: Okay.

9 CHUCK TAYLOR: Bye-bye.

10 GREG CASTO: Okay, bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Try 5983.

MALE PARTICIPANT: Oh.

MALE PARTICIPANT: This is John Halverson,
I think.

CHRIS NOSER: Naval Reactors ECC, may I help
you?

TRISHMILLIGAN: Hi, TrishMilligan, Nuclear
Regulatory Commission. With whom am I speaking?

CHRIS NOSER: This is Chris Noser.

TRISH MILLIGAN: Hi, Chris. We have a
request, and maybe you can give some information, and
maybe you might be able to help us out. When you have
Navy personnel obviously in Japan, and do we have any
potassium iodide there for those Navy folks, and if so,
do we have some that we could borrow for (inaudible)?

CHRIS NOSER: I'm sorry, I'm having trouble
just hearing you there. Are you asking whether there's
any potassium iodide available?

TRISHMILLIGAN: for your Navy folks in Japan,
and if you do, would we be able to get some for our staff
that's in Japan now?

CHRIS NOSER: Let me get back to you on that
in just a minute. Can I get your number? Your name is

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1 Chris Mulligan?

2 TRISHMILLIGAN: TrishMilligan, T-R-I-S-H.

3 CHRIS NOSER: Okay.

4 TRISH MILLIGAN: You can call 301-816-5419.

5 CHRIS NOSER: 5419?

6 TRISH MILLIGAN: When I've talked to you
7 guys in the past, you've done KI for folks in Japan.
8 I certainly don't think the Army has it. At any rate,
9 if you could check and let us know. We would need --

10 CHRIS NOSER: How many?

11 TRISH MILLIGAN: Fifteen packets which, for
12 our workers.

13 CHRIS NOSER: And where are they located?

14 TRISH MILLIGAN: The American Embassy in
15 Tokyo is where we'd get it to.

16 CHRIS NOSER: Okay. Let me get back to you
17 here shortly, okay?

18 TRISH MILLIGAN: Thank you.

19 CHRIS NOSER: Thanks.

20 TRISH MILLIGAN: Okay, bye.

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