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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 THURSDAY,
8 MARCH 24, 2011

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(CONFERENCE CALL INITIATED)

CINDY JONES: Hi. This is Cindy Jones with
PMT. Can I help?

MALE PARTICIPANT: Hi Cindy. How are you?

CINDY JONES: Good.

MALE PARTICIPANT: Hey, I am looking -- is
Tim Harris there? Or whoever's acting for him at this
time.

CINDY JONES: Who are you looking for, and
I can tell you. I'm the director here.

MALE PARTICIPANT: Oh okay. Then you may
be the person I'm looking for. I was looking for Tim
Harris.

CINDY JONES: Oh, well, we have three
different shifts going on 24/7. So, he's probably off
shift.

MALE PARTICIPANT: Okay. Well what I'm
trying to do is, I have a plume prediction model that
we put together that we want to have NRC take a look
at. Make sure we're all aligned on the calculations
and format.

CINDY JONES: Right.

MALE PARTICIPANT: So I was just wondering
who to send that to.

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1 CINDY JONES: I tell you, why don't you send
2 it to PMT --

3 MALE PARTICIPANT: PMT12.hac@nrc.gov?

4 CINDY JONES: Yes.

5 MALE PARTICIPANT: Okay. Attention to
6 anybody in particular?

7 CINDY JONES: It's not, it's PMT12.hoc.

8 MALE PARTICIPANT: At nrc.gov?

9 CINDY JONES: Yes. And that'll come right
10 to me.

11 MALE PARTICIPANT: What's your name again
12 ma'am? I'm sorry.

13 CINDY JONES: It's Cindy Jones, J-O-N-E-S.

14 MALE PARTICIPANT: Thank you, Cindy.

15 CINDY JONES: My pleasure. Thanks.

16 MALE PARTICIPANT: Yes.

17 CINDY JONES: Bye-bye.

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(CONFERENCE CALL INITIATED)

CINDY JONES: Cindy Jones, PMT.

MIKE MCBIRDIE (phonetic): Hi Cindy. My name's Mike McBirdie. I work in Regulatory Affairs Group at San Onofre Nuclear Generating Station.

CINDY JONES: Yes.

MIKE MCBIRDIE: And I'm calling to report the daily air samples that we've been providing to the NRC.

CINDY JONES: Great. Can you email us that information?

MIKE MCBIRDIE: Yes. I guess I can do that.

CINDY JONES: That would be very helpful.

MIKE MCBIRDIE: Okay. Let me get an email address for you.

CINDY JONES: Okay. And we appreciate you sending that in very much.

MIKE MCBIRDIE: Okay. That's no problem. Okay. What was the email?

CINDY JONES: It's P as in Pat, M as in mother, T as in Tom.

MIKE MCBIRDIE: Okay.

CINDY JONES: The number 12.

MIKE MCBIRDIE: PMT12.

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1 CINDY JONES: Dot hoc.

2 MIKE MCBIRDIE: Hotel, Oscar, Charlie?

3 CINDY JONES: Yes. At NRC.gov.

4 MIKE MCBIRDIE: At NRC.gov. Okay.

5 CINDY JONES: And if you send that and any
6 future ones, you can send to the same email address.
7 I'll send you a note back that says we received it.

8 MIKE MCBIRDIE: Okay. And so in the email,
9 I'll just put the numbers that we measure today.

10 CINDY JONES: Exactly, and we'll add it to
11 our table.

12 MIKE MCBIRDIE: Okay. Great.

13 CINDY JONES: Thank you.

14 MIKE MCBIRDIE: You're welcome.

15 CINDY JONES: Okay. Bye bye.

16 MIKE MCBIRDIE: Bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Mr. Ostendorff's office.

TERRY REIS: Hi. This is Terry Reis, PMT Director down in the Op Center. Is Mike available?

FEMALE PARTICIPANT: Hold on one second, please.

MIKE FRANOVICH: Hey, Terry.

TERRY REIS: Hey, Mike.

MIKE FRANOVICH: Good morning.

TERRY REIS: Hey. I was on the outskirts of the Commissioner Assistant's briefing that was just finished. Was it you that was asking the question about RadNet?

MIKE FRANOVICH: Yes. I was. I got, unfortunately, dropped off the line. I got back on the line and talked about that. Yes. I was curious about that. To me, that's something new. I mean, I'm not that familiar with it.

TERRY REIS: Well, we just looked it up. It is up and running, and they are integrating the Fukushima data into it.

MIKE FRANOVICH: Oh.

TERRY REIS: You can get into it right from

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1 the EPA's front page.

2 MIKE FRANOVICH: Okay. So, it's there. Yes.

3 I did see that they had a press release from some samples
4 they had taken on Friday of last week, West Coast samples.

5 And, so, I was curious whether or not that system is,
6 it's not exactly RadNex or whatever it's called, CDX.

7 TERRY REIS: It's called RadNet.

8 MIKE FRANOVICH: There's a CDX database
9 system that I didn't find it particularly user-friendly.

10 So I was wondering if they were going to do something
11 more for the public.

12 SANDY WASTLER: It doesn't seem to say so.

13 They do note on here that it can be difficult to follow
14 the data because the data because the data's complex.

15 TERRY REIS: Well, Mike, I think that part
16 is part of the broader issue of do you know that now
17 we're getting the environmental data. NEI is collecting
18 it, providing it to us. And we're providing it to EPA.

19 We have an action to coordinate with EPA
20 to get and have an integrated assessment of that data.

21 In that context, we can make it more useful for the
22 public.

23 MIKE FRANOVICH: Yes. That would be great,
24 because I've noticed -- you've probably looked at the
25 MEXT system that the Japanese are using. Their ministry

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1 posts the data for their prefectures, and --

2 SANDYWASTLER: Yes. We get that on a regular
3 basis.

4 MIKE FRANOVICH: Interesting report, the
5 Fukushima prefecture and how they do that one. Of course,
6 they're actually, you know, they've got a lot more sample
7 points to work with.

8 But just from a public communication stand
9 point, I found the Japanese actually have some pretty
10 good approaches in terms of communicating the risks to
11 the public and that sort of thing.

12 TERRY REIS: Yes. The other thing that was
13 said on the phone, we could point you to it if you haven't
14 found it, but the AMS data, the two day ago AMS data
15 is on the DOE website.

16 MIKE FRANOVICH: Yes. I'm going to look that
17 up today. I didn't realize that. So, that's helpful.
18 I guess they map, do they map out the country or where
19 they're surveying?

20 TERRY REIS: Yes. It's a bunch of slides
21 of their runs. If you can't find it, I can send you
22 the link.

23 MIKE FRANOVICH: Okay. I'll take a look this
24 morning. Yes. I try to share with the Commissioner as
25 much as what's out there for the public communication

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1 piece in particular. He's just got a very strong interest
2 in communicating risks and making sure messages are getting
3 out there.

4 TERRY REIS: Okay. All right. In fact, I'm
5 just going to send you the link right now.

6 MIKE FRANOVICH: Yes. I appreciate that.
7 That's very helpful.

8 TERRY REIS: Okay, Mike.

9 MIKE FRANOVICH: Well, thank you. Thanks.
10 Appreciate it.

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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.

CRAIG: Hello. Craig. May I help you?

TERRY REIS: Yes. Hi. This the NRC
Protective Measures Team. My name is Terry Reis. Is
Dave Bowman available?

CRAIG: Hold on. Let me (inaudible). All
right, Terry. You got the NIT. He should be on here
shortly.

TERRY REIS: Thank you.

BOB JARRELL: Hello.

TERRY REIS: Dave?

BOB JARRELL: No. This is Bob Jarrell. Is
this Terry Reis?

TERRY REIS: Yes. It is.

BOB JARRELL: I'm sorry?

TERRY REIS: Yes. It is.

BOB JARRELL: Okay. How do you spell your
last name?

TERRY REIS: Odd. Very oddly. R-E-I-S.

BOB JARRELL: Okay. Good. He just stepped
out. Can I take a message and get a phone call or a

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1 phone number from you?

2 TERRY REIS: Sure. Okay. We're at
3 301-816-5419.

4 BOB JARRELL: 301-816-5419. Any subject?

5 TERRY REIS: Yes. The subject is it appears
6 about 10:00 last night there was a conference call that
7 agreed upon some source term assumptions for a new NARAC
8 modeling run.

9 And senior management and technical staff
10 here are questioning those assumptions. We want to try
11 to get some input before you guys get too far. We believe
12 it was called the Plausible Realistic Case.

13 BOB JARRELL: Yes. I think you're late.

14 TERRY REIS: You think we're late, huh?

15 BOB JARRELL: Yes. I just talked to NARAC,
16 and they're doing the final QA on it right now.

17 TERRY REIS: Are they on shift now? We were
18 told they're only working day shift.

19 BOB JARRELL: Well, they just are coming
20 on.

21 TERRY REIS: Okay.

22 BOB JARRELL: Let me put you on hold here
23 just a second.

24 TERRY REIS: Yes. I think it's really
25 starting to (inaudible).

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(CONFERENCE CALL INITIATED)

DAVID BOWMAN: Hi. This is David Bowman.

TERRY REIS: Hi, David. My name is Terry Reis. I'm the Protective Measures Team Director here on day shift today at the NRC. And what's occurred is, it appears that between 9:00 and 10:00 last night there was a conference call that agreed upon some assumptions for the source term for a new NARAC run.

(b)(5)

(b)(5)

DAVID BOWMAN: Okay. I mean, all I can give you is history. There was a conference call yesterday afternoon at 17:00. And there were a couple folks, I think, Cindy Jones from your staff was on that.

And it was discussed, and I believe, at that point, the Protective Measures staff

(b)(5)

(b)(5)

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(b)(5)

TERRY REIS: Okay. So, we already voiced this concern then.

DAVID BOWMAN: Well, you did. I think I would encourage you to, you may want to circle back with Cindy if she's available. But there wasn't, I mean, I don't know the details.

TERRY REIS: Who is this at the White House?

(b)(6) who?

DAVID BOWMAN: (b)(6) He's OSTP. He's (b)(6) deputy. I can't speak to the core damage. He seemed to be --

TERRY REIS: We don't have a problem with the core damage. (b)(5) yes.

DAVID BOWMAN: They discussed this. (b)(5)

(b)(5)

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(b)(5)

So I mean, I think, I hear your concerns and you probably should convey them to the White House, but just for your awareness, there was a bit of a discussion about this at the 5:00 call last night.

TERRY REIS: Okay. That's helpful. What we have in the emails was 0.5 percent per day.

DAVID BOWMAN: Yes. That's what was decided on.

TERRY REIS: And that is a design leak rate. And we know we wouldn't have gotten any doses near what we got.

DAVID BOWMAN: Okay. All right. Well, I mean, I suggest you convey this to (b)(6) and if you would be willing, please copy us on it. And, you know, we'll stand by.

TERRY REIS: That's the one and the second issue is we don't know, we don't understand why the first assumption is, it says here no spent fuel fires. Maybe that's okay, but we don't know why there's no, you know, we know there's (inaudible).

DAVID BOWMAN: I can't tell you guys.

(b)(6)

(b)(5)

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1 TERRY REIS: Okay.

2 DAVID BOWMAN: (b)(5)

3 (b)(5)

4
5
6 TERRY REIS: Okay. We'll take that to our
7 executive team and see what they want, if they want to
8 pass it on to the White House.

9 DAVID BOWMAN: I mean I, you know, we've
10 done this so many times, (b)(5)

11 (b)(5)

12
13 TERRY REIS: Right. And we just came on,
14 and we also have some information what the Japanese assumed
15 it was during certain time periods too. And so, you
16 know, they're probably in as good a place to be assuming
17 some leak rate, we're doing those source terms based
18 on what they have.

19 So, we'll have that data pretty soon. But
20 we still have to, we can't do Tokyo, as you know, and
21 so, that was I believe the intent of this plausible best
22 case.

23 DAVID BOWMAN: Right. That's what they're
24 looking for.

25 TERRY REIS: We're going to go ahead and

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1 do what we think is the source term from the three reactors
2 and the release rate for our own edification and if it
3 shows something different or we don't get any changes
4 that were either recommended or agreed to from the White
5 House then we'll revisit it later.

6 DAVID BOWMAN: Well, (b)(5)

7 (b)(5)

8 (b)(5)

9 So, you know, I encourage
10 you guys, if you think it should be different, let them
11 know. And I think we're, I talked to our modelers, they're
12 close to having this one done.

13 In fact, they should be done. They're just
14 doing their QAQT, so we'll have it. But if we need to
15 do another one, we probably should get started rather
16 than, you know, being tasked to do it again at 6:00 p.m.
17 tonight.

18 TERRY REIS: Okay. What hours is NARAC
19 working? We were told day shift only yesterday.

20 DAVID BOWMAN: No. It's not. They're
21 shutting down for, like, four or five hours in the middle
22 of the night, and that was just to give them a breather.

23 I mean, if we have high priority runs --

24 TERRY REIS: They'll stay.

25 DAVID BOWMAN: They'll stay. Exactly.

TERRY REIS: So, they're pretty much working,

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1 what are their specific hours. Do you know?

2 DAVID BOWMAN: I believe they were shut,
3 their intention, the last couple nights they've shut
4 down between 1:00 a.m. and 6:00 a.m. Eastern. So, they'll
5 be here until midnight anyway. And, like I said, if
6 we have a high priority run, we'll keep them around.

7 TERRY REIS: Okay. We were just
8 mis-informed.

9 DAVID BOWMAN: Okay.

10 TERRY REIS: Because we're waiting until
11 10:00 to call them and 7:00 a.m. there.

12 DAVID BOWMAN: They came in at 6:00 p.m.
13 our time. They're there now. I haven't talked to them,
14 but I'm sure they're there.

15 TERRY REIS: Because they were there at 3:00
16 a.m.

17 DAVID BOWMAN: Yes. Our time.

18 TERRY REIS: Okay. Thank you, Dave.

19 DAVID BOWMAN: All right. Bye.
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(CONFERENCE CALL INITIATED)

(b)(6)

TERRY REIS:

(b)(6)

Good morning. I'm the
Protective Measures Team Director here on the day shift
at the NRC.

(b)(6)

Hey, Terry Reis. How are you
doing?

TERRY REIS: Good. I have a couple folks
with me, Sandy Wastler and Bruce Watson. And what we
wanted to discuss with you is we just got off the phone
with Dave Bowman at the NIT. And we were, you know,
keeping up with what was agreed to is a constant battle.

(b)(5)

(b)(5)

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1 (b)(5)

2 And so, we explained this to Mr. Bowman,
3 and he indicated that he was on the conference call last
4 night. (b)(5)

5 (b)(5)

12 (b)(5)

13 (b)(6)

(b)(5)

14 (b)(5)

15 TERRY REIS:

(b)(5)

16 (b)(5)

17 (b)(6)

(b)(5)

18 (b)(5)

22 TERRY REIS:

(b)(5)

23 (b)(6)

(b)(5)

24 (b)(5)

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1 (b)(5)

2
3 Okay.

(b)(5)

4 (b)(5)

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9 TERRY REIS: Got you.

10 (b)(6)

Right.

(b)(5)

11 (b)(5)

12
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14
15
16 TERRY REIS: Okay.

17 (b)(6)

(b)(5)

18 (b)(5)

19
20 TERRY REIS: That's fine.

21 (b)(6)

(b)(5)

22 (b)(5)

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(CONFERENCE CALL INITIATED)

(b)(6)

(b)(5)

(b)(6)

or you could try, if he's not there,

(b)(6)

TERRY REIS: Okay,

(b)(6)

(b)(5)

(b)(5)

TERRY REIS: Thank you.

(b)(6)

You bet. Bye bye.

TERRY REIS: Bye-bye.

AUTOMATED MESSAGE:

(b)(5)

(b)(5)

TERRY REIS:

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(6)

Hello.

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1 TERRY REIS: Hi. (b)(6)

2 (b)(6) Yes.

3 TERRY REIS: Glad we caught you. My name
4 is Terry Reis. I'm with the NRC. I'm the current day
5 shift director of the Protective Measures Team. (b)(5)

6 (b)(5)

7
8
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10
11
12 (b)(6) Yes.

13 TERRY REIS: (b)(5)

14 (b)(5)

15
16
17
18
19
20 (b)(6)

(b)(5)

21 (b)(5)

22 TERRY REIS: (b)(5)

23 (b)(5)

24 (b)(6)

(b)(5)

25 (b)(5)

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1 (b)(5)
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6 TERRY REIS: Right.

7 BRUCE WATSON: (b)(5)

8 (b)(5)
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15 (b)(6)

(b)(5)

16 BRUCE WATSON:

(b)(5)

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(b)(5)

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1 BRUCE WATSON: (b)(5)

2 (b)(5)

3 (b)(6)

(b)(5)

4 (b)(5)

5 BRUCE WATSON:

(b)(5)

6 (b)(5)

11 (b)(6)

Okay.

12 TERRY REIS:

(b)(5)

13 (b)(5)

21 (b)(6)

(b)(5)

22 (b)(5)

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(b)(5)

BRUCE WATSON: Okay.

TERRY REIS: (inaudible)

(b)(5)

(b)(5)

(b)(6)

(b)(5)

(b)(5)

BRUCE WATSON:

(b)(5)

(b)(5)

(b)(6)

(b)(5)

BRUCE WATSON:

(b)(5)

(b)(6)

(b)(5)

BRUCE WATSON: Right.

(b)(6)

(b)(5)

(b)(5)

BRUCE WATSON: Okay.

(b)(6)

(b)(5)

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13 BRUCE WATSON:

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(b)(5)

TERRI REIS:

(b)(5)

(b)(5)

BRUCE WATSON:

(b)(5)

(b)(5)

TERRI REIS:

(b)(5)

(b)(5)

BRUCE WATSON:

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Right, well I think --

BRUCE WATSON:

(b)(5)

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BRUCE WATSON: Okay.

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BRUCE WATSON:

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BRUCE WATSON: Okay.

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BRUCE WATSON: Right.

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BRUCE WATSON: (b)(5)

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BRUCE WATSON: (b)(5)

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2 (b)(5)
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8 BRUCE WATSON: (b)(5)
9 (b)(5)
10 (b)(6) Okay.
11 TERRY REIS: (b)(5)
12 BRUCE WATSON: (b)(5)
13 (b)(5)
14 (b)(6) (b)(5)
15 (b)(5)
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17
18 BRUCE WATSON: (b)(5)
19 (b)(5)
20
21 (b)(6) Right.
22 BRUCE WATSON: (b)(5)
23 (b)(5)
24 TERRY REIS: (b)(5)
25 (b)(6) (b)(5)

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1 (b)(5)

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TERRY REIS:

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BRUCE WATSON: We understand.

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(b)(5)

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BRUCE WATSON:

(b)(5)

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(b)(5)

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(b)(6)

Okay.

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BRUCE WATSON: Okay?

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(b)(6)

Thanks.

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1 BRUCE WATSON: All right. Any other
2 questions? Hold on.

3 SANDY WASTLER: Just out of curiosity, is
4 there a call at 11:00 today with Aoki?

5 (b)(6)
6 I am not aware of it, but
7 let me look at my Email to see if something has come
8 in while I --

9 SANDY WASTLER: I hadn't seen anything myself,
10 and that was a question we had. And I think this is a
11 meeting, the re-meeting from yesterday because we had
12 such sort notice that this came out of. So, I'm just
13 curious.

14 (b)(6)
15 Yes. I know I let them know
16 we can't have meetings with six minutes notice.

17 SANDY WASTLER: I know, that's what I said.

18 BRUCE WATSON: By email.

19 SANDY WASTLER: By email. I got up, went
20 to the ladies room, came back and it was on.

21 BRUCE WATSON: We had specifically asked
22 for a call if there was going to be a meeting so we would
23 be alerted to it.

24 SANDY WASTLER: Yes. It was not --

25 (b)(6)
26 Yes. I don't have anything
27 in my email. I have, I know I've tried to call Steve
28 Aoki this morning and have sent him an email. And I haven't

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1 gotten a response yet. So, I'd assume there is no call.

2 BRUCE WATSON: Okay.

3 SANDY WASTLER: All right. Thank you.

4 (b)(6) Okay. So, I look forward to
5 hearing from you soon.

6 BRUCE WATSON: Thanks for your help.

7 (b)(6) Okay. Bye.
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(CONFERENCE CALL INITIATED)

RAY CLARK: EPA Environmental Unit. It's Ray Clark.

TERRY REIS: Ray, hi. Good morning. My name is Terry Reis. I'm with the NRC. I'm the Protective Measures Team Director here in our Op Center.

I was directed to initiate dialog with you about getting to a point where we preform an integrated assessment of all the environmental data that we're receiving at our U.S. power plant as a result of the Japanese event.

As my understanding has it, NEI is taking up, the Nuclear Energy Institute is taking up the burden of actually collecting the data from the site. They're transmitting it to the NRC and then we're transmitting it to you.

But, we're looking to have some sort of protocol of how that's going to be integrated and assessed and communicated to the public. So, that's the purpose of my call.

RAY CLARK: Okay. My understanding from this end is it's not, we're not releasing it to the public. This is just OSTP wanting us to compile all the data that we have, to just go to them.

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4 TERRY REIS: Okay. So, your understanding
5 is that you're just collecting the data to transmit to
6 OSTP.

7 RAY CLARK: That's my understanding. I can
8 double check to be sure, because that was a message I
9 saw go by here when we were asking --

10 TERRY REIS: Do you know who your contact
11 in OSTP is?

12 RAY CLARK: I would, I'd have to check to
13 be sure. No because I haven't been dealing with them.

14 TERRY REIS: All right. Can you check and
15 get back to me?

16 RAY CLARK: Okay. Sure.

17 TERRY REIS: Okay. My number is
18 301-816-5419.

19 RAY CLARK: Okay.

20 TERRY REIS: How much data are you receiving?

21 RAY CLARK: Well, we've only received a
22 couple of things --

23 TERRY REIS: A handful?

24 RAY CLARK: Yes. It's just environmental
25 stuff. It all fits on one page so far, that I've seen.

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1 Like from the, I don't have it in front of me, but starting
2 maybe on the 18th or something and went through yesterday,
3 I believe. See if it's over here still. Hang on just
4 a minute if you would.

5 TERRY REIS: Thank you.

6 RAY CLARK: Yes. It started on the 18th and
7 ran through the 23rd. (inaudible) The only sort of title
8 I see on it is Reported Measurements from Various NRC
9 Operating Reactors.

10 TERRY REIS: Okay. Well, my understanding
11 is this is going to be a continual thing that you're
12 going get to continue.

13 RAY CLARK: Right.

14 TERRY REIS: NEI is going to continue to
15 reach out to its members and collect this data and then
16 we're going to forward it to you. And so I think we are
17 looking at you guys to perform an assessment of, you
18 know, the data and whether it is or is not made public,
19 put it in some kind of format that illustrates what's
20 going on.

21 RAY CLARK: Yes. Again, my understanding
22 is we're trying to get data from the national lab, from
23 the, what do they call it, comprehensive test man for
24 the organization, your guys and our system.

25 TERRY REIS: Your RadNet?

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1 RAY CLARK: Right. And just compile all that
2 together just to give them, the apparent comment was
3 that nobody was really putting all the U.S. environmental
4 data together, so they asked us to do it and the assignment.

5 So, to my knowledge, that's all it is. We're
6 just going to get the data and put it together in some
7 sort of readable form, hopefully. And then send it up
8 to them.

9 TERRY REIS: Can you make sure you coordinate
10 with us before you send it to the White House?

11 RAY CLARK: Sure. I can pass that up the
12 line here.

13 TERRY REIS: Okay.

14 RAY CLARK: You realize I'm low on the totem
15 pole.

16 TERRY REIS: Way down the line, huh?

17 RAY CLARK: Exactly. But I'll check to be
18 sure with our management here that it was not intended
19 to go public at least from the EPA.

20 TERRY REIS: All right. Let me give you our
21 phone number and our email address.

22 RAY CLARK: Okay.

23 TERRY REIS: Again, my name is Terry Reis
24 or it's shift work so whoever the PMT Director is. That's
25 Protective Measures Team. The phone number is

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1 301-816-5419 and our Email is PMT12.hoc@nrc.gov. Did
2 I get that right?

3 RAY CLARK: PMT12 at (inaudible)

4 TERRY REIS: PMT12.hoc.

5 RAY CLARK: I'm trying to see if that's the,
6 I think that's probably the address we got from, doesn't
7 really say. Okay. Yes. I actually talked with, again,
8 I have to dig the note out if I can find it. Randy Sullivan
9 or Wayne Schmidt this morning.

10 TERRY REIS: Yes. Randy is, he was our
11 midnight guy. I relieved him.

12 RAY CLARK: Oh. Okay. So, they were the
13 first ones that told me about this. Okay. Yes. I will
14 go confirm that, that we don't have any intention to
15 go public. I'll let you know on that. And if I can get
16 the contact for the person over at OSTP, that as well.

17 TERRY REIS: All right. Thank you.

18 RAY CLARK: All right. Appreciate it.

19 TERRY REIS: Thanks.

20 RAY CLARK: Yes.
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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: This is Joe Diccico,
and I am not able to answer the phone at the moment.
Please leave a message if you wish. Have a great day.

AUTOMATED MESSAGE: Hi. You've reached
Adelaide S. Giantelli at the U. S. Nuclear Regulatory
Commission, Source Management and Protection Branch.
I can't take your call right now, but if you leave your
name, number and a brief message, I'd be happy to call
you back. Have a good day.

TERRY REIS: Hi Adelaide. This is Terry.
Could you please give me a call on my Blackberry?

(b)(6)

Thank you.

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(CONFERENCE CALL INITIATED)

KAREN:NARAC. This is Karen.

BRUCE WATSON: Karen, this is Bruce Watson
at the NRC Operations Center, Protective Measure Team.

KAREN: Yes. Hi Bruce.

BRUCE WATSON: I don't know if I need to
talk to John Naasstrom or not, but this is the request.
Can we get an Email from you guys listing all the products
you have sent to us since this Japan thing started?

KAREN: Oh, okay. Okay, so, all products

--

BRUCE WATSON: Yes.

KAREN: (inaudible) email sent all the
products that we sent to NRC.

BRUCE WATSON: Yes. We're trying to verify
we have everything here to make sure we have everything
under control, so to speak, from an administrative
standpoint.

KAREN: Okay, Bruce. And what is the number
there at NRC?

TERRY REIS: PMT. I'm sorry. This is Terry
Reis. PMT12 period hoc@nrc.gov.

KAREN: Okay. T as in Tom. M as in Mary.
T as in Tom.

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1 BRUCE WATSON: No. P.
2 TERRY REIS: No. P as in Paul.
3 KAREN: Let's do this again. P.
4 TERRY REIS: Protective Measures Team.
5 BRUCE WATSON: PMT.
6 KAREN: Oh, okay. PMT.
7 BRUCE WATSON: 1, 2.
8 KAREN: Yes.
9 TERRY REIS: Period.
10 KAREN: Yes.
11 TERRY REIS: H as in horse. O as in Oscar.
12 C as in carrot. At nrc.gov.
13 KAREN: Got it. Okay. And what is the phone
14 number there?
15 BRUCE WATSON: We're not sure.
16 301-816-5100. That's our main Operations Center. Then
17 ask for the PMT.
18 KAREN: Okay. Great. Let me see if I can
19 get someone to do that. And then --
20 TERRY REIS: What we're really looking for
21 is, you know, not just which products, but what assumptions
22 when into those products.
23 BRUCE WATSON: Now, I don't know if that
24 can done or not.
25 TERRY REIS: What we're really looking for,

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1 what was the source term.

2 BRUCE WATSON: We've done numerous source
3 terms. Some of them we didn't have run. So, what we
4 want to do is make sure we also know what the runs were
5 that were sent to us.

6 KAREN: Okay.

7 BRUCE WATSON: Okay?

8 TERRY REIS: Yes. Let's just get a start
9 and see what it looks like. And then we'll go from there.

10 KAREN: Okay. I'll see if someone can get
11 that out to you.

12 BRUCE WATSON: Thank you.

13 TERRY REIS: Thank you.

14 KAREN: Okay. Certainly.

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(CONFERENCE CALL INITIATED)

TRISH: NRC.

TERRY REIS: Hey, Trish. Hi. It's Terry Reis over in the Op Center.

TRISH: Terry, how are you?

TERRY REIS: Hey, I got you on speaker here with just me and Sandy. Hey, thank you for forwarding this (inaudible).

TRISH: What? The DHS PAGs?

TERRY REIS: Yes.

TRISH: Yes. They're useful.

TERRY REIS: Well, I would think they're useful because we're trying to answer the question, and the back shift drew up something that I don't find particularly useful.

Now, for temporary reentry guidance and, you know, reading this, was it your intent that, you know, there's no need to reinvent the wheel (inaudible).

TRISH: Yes. I think there is no need to reinvent the wheel. I think the DHS RDD PAGs while written for an RDD IND can certainly be applied and they were the ones that were supposed to be included into the EPA PAGs before that whole debacle started.

TERRY REIS: Okay. So, do you know what the

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1 status of this after this was Federal Register Note what
2 because --

3 TRISH: This is Federal Register Note and
4 it's there and it's agreed upon guidance that is to policy
5 of the United States Government for an RDD IND event.

6 TERRY REIS: So, am I reading it correctly
7 when I go to Appendix 4, and I look at D it talks about
8 these operational guidelines. And then it doesn't give
9 any numbers. Do I revert back to the intermediate phase
10 PAGs?

11 TRISH: Well, I think what it is trying to
12 get you to do is to look at the overall situation that
13 you are facing, look at the guidance that's there, look
14 at what the societal cost and other things are and then
15 come up with something that works.

16 TERRY REIS: Okay.

17 TRISH: So, you could just simply revert
18 back to the intermediate guides because we are really
19 the intermediate phase at this point. The drawback to
20 the intermediate guide, it says if you free-release people
21 back, you know, and if it's an area where you think they
22 could be, you know, approaching the PAGs, then --

23 TERRY REIS: Then you're in trouble. You
24 don't have an answer, right.

25 KAREN: We have no way to keep track of them.

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1 So, you know, we need to figure out where can they go,
2 what makes sense, and what areas? A hundred milligrams
3 per year is a pretty good value to work with, because
4 that's the NRC (inaudible) dose limits, right?

5 TERRY REIS: Oh yeah. Well, if you go to
6 the earlier guidance, the 1992 EPA, it says they become
7 RAD workers and they're subject to occupational limits
8 which would suggest you could go up to 5R, right?

9 KAREN: Well, not the members of the public.

10 TERRY REIS: Well, if you look at, where
11 were we reading that?

12 SANDY WASTLER: That was right there.

13 TERRY REIS: Yes. If you look in
14 EPA-400-R-92-001 in the back of it.

15 KAREN: What page?

16 TERRY REIS: Table E19.

17 KAREN: Okay.

18 TERRY REIS: Okay and then if you go to E7.

19 KAREN: Yes.

20 TERRY REIS: Okay. It's the second
21 paragraph there. It talks about members of the public.

22 It says, Individuals who reenter the
23 restricted zone or who perform tasks involving exposure
24 rates that would cause their radiation dose to exceed
25 that permitted by the PAGs should do so in accordance

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1 with existing Federal radiation protection guidance for
2 occupationally exposed workers.

3 KAREN: Yes. But I think that's for people
4 who are coming back into work. I don't think that was
5 ever meant for --

6 TERRY REIS: Don't think so. The paragraph
7 above says, Persons may need to reenter the restricted
8 zone --

9 TRISH: -- for a variety of reasons,
10 including radiation monitoring, recovery work, animal
11 care, property maintenance, and factory or utility
12 operation. That's kind of actually aimed, Terry, towards
13 workers.

14 You've got to come back in to work the water
15 treatment system. You've got to come back in to care
16 for kennel of animals. You've got to come back and take
17 care of your farm. It's not meant for Mom and Pop and
18 the kids to trail on back in.

19 TERRY REIS: Okay. We have Eric here. He
20 says he's an expert in this area.

21 TRISH: Eric.

22 ERIC: Hi, Trish.

23 TRISH: Hey, how are you?

24 ERIC: I'm terrific. Thank you.

25 TRISH: Yes. Talk to Eric. (Inaudible.)

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1 SANDY WASTLER: Okay.

2 TERRY REIS: Okay.

3 TRISH: And, you know, if you don't like
4 what Eric has to say, you can call me back.

5 TERRY REIS: All right.

6 TRISH: But I'm here if you need any
7 additional insights or anything. But take a look at the
8 DHS PAGs, and the idea is it kind of gives us some liberty.

9 And it's actually not this DHS, it's an
10 interagency Federal Government effort. It kind of gives
11 us some liberty to kind of craft these kind of guidelines
12 --

13 TERRY REIS: Situational.

14 TRISH: Yes. Which is very important
15 because the Japanese might want to be at this level,
16 but, in fact, the reality is, given their other situation,
17 this becomes more acceptable to return some people to
18 normal. And I think that's a real important thing that
19 we need to consider.

20 TERRY REIS: Well, do you, one thing we're
21 not clear on is the (inaudible) here to develop reentry
22 guides for U.S. personal or for Japanese personal?

23 TRISH: Well, I thought it was for U.S.
24 personal because why --

25 TERRY REIS:

(b)(5)

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1 (b)(5)

2 TRISH: I think though whatever we develop
3 may --

4 TERRY REIS: May be adopted.

5 TRISH: Well, may be certainly looked at
6 and might be seriously considered, i.e. adopted by other
7 countries including the host country.

8 So, I think what we need to do is to make
9 sure that we develop something that, I mean, we have
10 the opportunity to kind of break through ground and develop
11 something that makes sense. And I think that we should
12 do that.

13 TERRY REIS: Okay.

14 TRISH: Okay?

15 TERRY REIS: Thanks.

16 TRISH: Sure.

17 TERRY REIS: Bye.

18 TRISH: Bye.
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(CONFERENCE CALL INITIATED)

SANDRA WASTLER: Hello.

OPERATOR: Hi. I got a gentleman here from the EPA to talk to you about dose assessments.

SANDRA WASTLER: Okay.

OPERATOR: Okay. Hold on, please.

SANDRA WASTLER: Hello.

MALE PARTICIPANT: Yes.

SANDRA WASTLER: This is Sandra Wastler at the PMT and the NRC Operations Center.

MALE PARTICIPANT: Yes.

SANDRA WASTLER: Can I help you, sir?

MALE PARTICIPANT: Just curious. Do you know, and I don't know that you will, just wanted to ask, the people that gather the iodine. I guess that's what I'm being asked to ask (inaudible). Is that being collected using charcoal canisters? Do you know?

SANDRA WASTLER: I'm sorry. I'm having trouble hearing you with everybody around.

MALE PARTICIPANT: It sounds pretty loud, yes. Is the data being collected just on --

SANDRA WASTLER: What data?

MALE PARTICIPANT: From the power plants that you've sent out.

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1 SANDRA WASTLER: Oh. Okay. Hang on a
2 second.

3 (Pause)

4 SANDRA WASTLER: I'm afraid we can't give
5 you the answer. You're going to have to get it from the
6 individual power plant would be the only way we could
7 do it.

8 MALE PARTICIPANT: Okay. Well, that's what
9 I --

10 SANDRA WASTLER: Because they have the
11 ability to use whatever mechanism they want.

12 MALE PARTICIPANT: Sure. Absolutely.
13 That's why I didn't know if you could answer it or not.
14 (Inaudible.) Okay.

15 SANDRA WASTLER: All right. Sorry I
16 couldn't help.

17 MALE PARTICIPANT: All right. No. That's
18 fine.

19 SANDRA WASTLER: All right. Bye bye.
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(CONFERENCE CALL INITIATED)

STEVE LAVIE: U.S. NRC, Protective Measures Team. This is Steve Lavie.

RON BASKETT: Oh, hi Steve. This is Ron Baskett from NARAC. I was trying to reach Bruce Watson if he's available.

STEVE LAVIE: Bruce Watson has rotated off.

RON BASKETT: Okay.

STEVE LAVIE: I'm his relief.

RON BASKETT: All right. Bruce has requested, called in earlier today with a request to have a list of all the products, NARAC products sent to NRC.

STEVE LAVIE: Yes.

RON BASKETT: Were you aware of that?

STEVE LAVIE: I was not directly aware of it. I do know he's looking for a final report from the run that was made.

FEMALE PARTICIPANT: He did call and ask for that. Yes.

STEVE LAVIE: Okay. Someone else here has confirmed that Bruce did make that call.

RON BASKETT: Okay. I was wondering if that was just a list of those Emails or those available on

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1 CMweb.

2 STEVE LAVIE: All your, all the stuff that
3 you've sent us is in CMweb?

4 RON BASKETT: Well, there's a lot of products
5 on CMweb that have been shared. Yes.

6 FEMALE PARTICIPANT: No. I think he just
7 wanted what you, the runs that you sent us.

8 RON BASKETT: By Email?

9 FEMALE PARTICIPANT: Yes.

10 RON BASKETT: Oh okay. Yes. We could do
11 that. And that would be us sending to you or the NIT
12 sending to you? Or both?

13 STEVE LAVIE: (Inaudible) is fine.

14 RON BASKETT: What is that?

15 STEVE LAVIE: I don't think we necessarily
16 need to get NIT involved. You're not giving us any new
17 information. You're just giving us a tabulation of what's
18 been sent.

19 RON BASKETT: Right. Okay.

20 STEVE LAVIE: One other question while I
21 have you on the line, though. And let me alert you.
22 We are trying to set up a teleconference with NIT, you
23 folks, and (b)(6) at the White House for sometime
24 this evening.

25 They don't know when it's going to be set

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1 up. And the topic of discussion is possible revision
2 to the source term based on data we've received from
3 the Japanese regarding their releases.

4 RON BASKETT: Okay.

5 STEVE LAVIE: We just want to discuss it
6 to see where we want to go with it.

7 RON BASKETT: All right. Let's see. Who's
8 involved in that? You say who's invited. The NIT--

9 STEVE LAVIE: That was (b)(6) and NIT

10 --

11 RON BASKETT: (b)(6) and NIT and --

12 STEVE LAVIE: And you folks. NIT is setting
13 the call up.

14 RON BASKETT: Okay.

15 STEVE LAVIE: Actually Dave Bowman is setting
16 it up.

17 RON BASKETT: All right. Got it.

18 STEVE LAVIE: And he's going to send an Email
19 to all the participants (b)(5)

20 (b)(5) One other question
21 before we can let you off the line, the seven source
22 term run that was done earlier today. We received a
23 type-written summary of it. I think it's draft under
24 review. Has the final gone out?

25 RON BASKETT: Right. Let me check on that.

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1 I don't think so. Steve, that's for U.S. impact?

2 STEVE LAVIE: Yes. All U.S. areas.

3 RON BASKETT: That's a draft circulating
4 for review not finalized.

5 STEVE LAVIE: Okay. Thank you.

6 RON BASKETT: Sure. Okay.

7 STEVE LAVIE: (Inaudible.)

8 RON BASKETT: Okay, Steve.

9 STEVE LAVIE: Thank you.

10 RON BASKETT: Bye bye.

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(CONFERENCE CALL INITIATED)

STACEY ROSENBERG: Hello. Stacey Rosenberg,
NRC, Protective Measures Team.

HEADQUARTERS OPERATIONS OFFICER: Yes,
ma'am. Headquarters Operations Officer. I have George
Acey (phonetic) on the line.

STACEY ROSENBERG: George Acey? From
where?

MALE PARTICIPANT: I know who. Put him
through please.

HEADQUARTERS OPERATIONS OFFICER: All right.
I'm going to connect him right now. Here he is.

MALE PARTICIPANT: Thank you.

GEORGE ACEY: Hello.

KIMBERLY: Oh, George. Hi. There you are.
It's Kimberly.

GEORGE ACEY: I hear you.

KIMBERLY: I was, the shift that just left,
they conveyed to me two errors.

GEORGE ACEY: Okay.

KIMBERLEY: RASCAL fatal errors. And I just
needed to let you know of them before it got lost somewhere.

GEORGE ACEY: Yes.

KIMBERLEY: If it's a good time: to do that,

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1 you got your pen and paper?

2 GEORGE ACEY: I'm ready.

3 KIMBERLEY: Okay. So, one of them was the
4 same error that I called you about the other day. Error
5 number 13. A fatal error. The problem description was
6 type mismatch.

7 The module was mod case file. And the
8 procedure was calc (inaudible). To resolve that, a few
9 days ago, we just ended up reinstalling RASCAL.

10 GEORGE ACEY: Yes. See, when I worked on
11 it, I think that's the one I worked on with maybe Rich
12 after I talked to you or somebody.

13 KIMBERLY: Okay.

14 GEORGE ACEY: All we did was reboot the
15 computer.

16 KIMBERLY: Oh. Okay.

17 GEORGE ACEY: I worked with him, and it
18 appeared that for some reason Windows was not allowing
19 the files to be deleted because --

20 KIMBERLY: Oh, right. Okay.

21 GEORGE ACEY: You know, you and I were working
22 on it, and you deleted them and then they came right
23 back.

24 KIMBERLY: Right. Okay. Well, they
25 experienced it again. So.

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1 GEORGE ACEY: It's just on PMT02?

2 KIMBERLY: That one was done on PMT11.

3 GEORGE ACEY: Oh okay. So, it's not just
4 that one.

5 KIMBERLY: Right.

6 GEORGE ACEY: We had a strange problem on
7 the GIS machine the other day as well, which was a totally
8 different set of software, and once we rebooted, the
9 problem went away. So, I don't know whether it's an XP
10 issue or a network issue or RASCAL or what.

11 KIMBERLY: Yes. I know. The other error,
12 the newest one here is error number 53. A fatal error.
13 Problem description file not found. The module is mod
14 calc control, and procedure is met data set up.

15 What Eric was doing is he was trying to specify
16 a five inch diameter hole, and he would click the calculate.
17 You know, he would go through all the buttons and then
18 at the very end hit the calculate button.

19 It would look like it was going to go, but
20 what would happen is that all windows would just
21 automatically close except for the very first RASCAL
22 window when you open the program. Either that would happen
23 or he would get this fatal error window.

24 GEORGE ACEY: How long of a calculation was
25 he trying to do?

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1 KIMBERLY: I think it was a 48 hour run.

2 GEORGE ACEY: Right, 48 hours is problematic.

3 Who was it? Somebody else saw a similar problem with
4 48 hour runs. The puff model is what's giving us the
5 problem, but it seems somehow related to release rate.

6 So, if you have a less of a release rate,
7 the problem or the module can, the transport model can
8 get all the way to 48 hours. With high release rates,
9 it kicks out. I've talked to the developer of that code,
10 and he's supposedly looking at it. But I haven't seen
11 anything back.

12 KIMBERLY: Okay.

13 GEORGE ACEY: What, the kind of the
14 work-around is, well, there's two work-arounds. If all
15 you really care about is getting the source term file
16 so you can export it, then don't, just run the close
17 end model. You have the three distances and one that
18 says close end only.

19 KIMBERLY: Yes.

20 GEORGE ACEY: Just pick close end only.
21 The source term file will be the same. It's just you
22 try, the code won't try to run that puff model.

23 KIMBERLY: Okay.

24 GEORGE ACEY: If you have to go out farther,
25 if you need the puff model, just try ramping it back

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1 to like 36 hours or something like that.

2 KIMBERLY: Okay.

3 GEORGE ACEY: I played with it for a long
4 time and sometimes, you know, I could have the release
5 rate, (b)(5)

6 (b)(5)

7
8 KIMBERLY: Okay.

9 GEORGE ACEY: And so all I was seeing by
10 the added 24 hours was just a little bit more ground
11 shine.

12 KIMBERLY: Okay. All right.

13 GEORGE ACEY: So, I've got the guy working
14 on that, but I don't think I'm going to hear back from
15 him before, in time to get anything done tomorrow.

16 KIMBERLY: All right. That's fine. Just
17 wanted to make you aware of these before it got lost
18 in the shift changes.

19 GEORGE ACEY: I appreciate it.

20 KIMBERLY: Okay.

21 GEORGE ACEY: Would it be useful if I try
22 to write these up and then Email something to your work
23 station?

24 KIMBERLY: I think that can't hurt.

25 GEORGE ACEY: Okay. I'm in the office --

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1 KIMBERLY: When are you going on --

2 GEORGE ACEY: I'm in the office tomorrow
3 and then I'm out for the entire next week.

4 KIMBERLY: Okay. Where are you going?

5 GEORGE ACEY: (b)(6)

6 (b)(6)

7 KIMBERLY: Oh great, and you're bringing
8 your cell phone with you, right?

9 GEORGE ACEY: (b)(6)

10 (b)(6)

(b)(6)

11 KIMBERLY: Oh,

12 (b)(6)

13 GEORGE ACEY: Yes.

(b)(6)

14 (b)(6)

15 KIMBERLY: Okay.

16 GEORGE ACEY: But in the evenings I'm sure
17 I can get to it.

18 KIMBERLY: Yes. Sure. All right. Great.
19 Thanks a lot.

20 GEORGE ACEY: How come things never break
21 when I'm there?

22 KIMBERLY: I don't know. It's like Newton's
23 fourth law or something. Okay.

24 GEORGE ACEY: Yes. I was there all day
25 yesterday and nothing happened.

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1 KIMBERLY: Yes. Allright. Well,thankyou
2 George. I appreciate it.

3 GEORGE ACEY: So, these are errors that
4 you're able to recover from. They're just annoying.

5 KIMBERLY: They're very annoying. No. The
6 program crashes, or we're not able to go forward.

7 GEORGE ACEY: Yes. Right.

8 KIMBERLY: Now, if we can recover, I mean,
9 move a long with the work-arounds, then we're okay.

10 GEORGE ACEY: The reinstall, I think, is
11 a Red Herring. I don't think that's fixing the problem.

12 KIMBERLY: Okay.

13 GEORGE ACEY: Maybe it is, but I can't
14 reproduce that one here in my office.

15 KIMBERLY: Okay.

16 GEORGE ACEY: But all the symptoms that I
17 got with working with Rich the other day on the phone
18 seemed like it was a Windows issue. But, so, maybe what
19 I'll write is suggest reboot first.

20 KIMBERLY: Reboot first. All right. Will
21 do.

22 GEORGE ACEY: All right. Have fun.

23 KIMBERLY: Thank you, sir. Okay. Bye bye.

24 GEORGE ACEY: Bye.
25

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC.

HEADQUARTERS OPERATIONS OFFICER: Hi. It's Headquarters Operations Officer. I have a gentleman from DOE on the line that's inquiring about a conference call that they're waiting on on a bridge line right now. And they were expecting someone from the PMT to join them.

MALE PARTICIPANT: Oh. Okay.

HEADQUARTERS OPERATIONS OFFICER: Can I put them through, and maybe he can explain it to you?

MALE PARTICIPANT: Is he on the bridge line right now?

HEADQUARTERS OPERATIONS OFFICER: He's on the bridge line, but he's also on my line. And he wants to talk to somebody over there. Can I just put him through to you?

MALE PARTICIPANT: Sure.

HEADQUARTERS OPERATIONS OFFICER: Okay. Here he is.

BOB JARRELL: Hello.

MALE PARTICIPANT: Hello.

BOB JARRELL: Hello.

MALE PARTICIPANT: Hello.

BOB JARRELL: Yes. Is this the NRC

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1 Protective Measures Team?

2 MALE PARTICIPANT: Yes. This is the NRC PMT.

3 BOB JARRELL: This is Bob Jarrell over at
4 Department of Energy. Understand you guys had requested
5 a conference call. It was supposed to start at 4:15,
6 16:15 today on the DOE bridge line 202-245-2099 with
7 a pin of (b)(6) We are standing by.

8 MALE PARTICIPANT: Okay. The Director --

9 BOB JARRELL: And the White House is on with
10 us.

11 MALE PARTICIPANT: Okay. The person that
12 might have set it up is not here right now. So, let me
13 try to find someone that knows about this call. I'm just
14 the coordinator. I'm trying to find out what this call
15 is.

16 BOB JARRELL: Who is the person who did that,
17 you know?

18 MALE PARTICIPANT: I am not sure, but I can
19 try to find out right now. Can you give me the number,
20 the call in number again? 202 --

21 BOB JARRELL: 202-245-2099 with a pin of
22 (b)(6)

23 MALE PARTICIPANT: 245-2099. (b)(6) and
24 this is a call with the DOE that the NRC requested. Correct?

25 BOB JARRELL: NRC requested it, this call

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1 with DOE and the White House. And both other parties
2 are on the line waiting.

3 MALE PARTICIPANT: Okay. Let me try to find
4 someone for this call and get right back to you.

5 BOB JARRELL: Okay.

6 MALE PARTICIPANT: All right. Thank you.

7 BOB JARRELL: All right. Bye.

8 MALE PARTICIPANT: Also, one more thing.
9 Do you know what this call was in regards to?

10 BOB JARRELL: No. I'm not sure.

11 MALE PARTICIPANT: You're not sure?

12 BOB JARRELL: Yes. It was --

13 MALE PARTICIPANT: Was this to discuss any
14 source terms or?

15 BOB JARRELL: NRC requested it. It's on
16 modeling.

17 MALE PARTICIPANT: On modeling? Okay.

18 BOB JARRELL: Yes.

19 MALE PARTICIPANT: All right. Let me try
20 to find someone, and I'll have someone call that line.

21 BOB JARRELL: Okay.

22 MALE PARTICIPANT: All right. Thank you.

23 BOB JARRELL: Do you have my number here?

24 MALE PARTICIPANT: I have the 202-245-2099
25 number. What's your number? Bob Jarrell?

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1 BOB JARRELL: Yes. We're at 202-586-8100.

2 MALE PARTICIPANT: 586-8100?

3 BOB JARRELL: 8100. Yes.

4 MALE PARTICIPANT: And they can ask for Bob
5 Jarrell.

6 BOB JARRELL: That's the number I'm at, but
7 the number you want to, whoever it is to call is that
8 other number.

9 MALE PARTICIPANT: Yes. Call that number.
10 Okay.

11 BOB JARRELL: Okay. Thanks. Bye.

12 MALE PARTICIPANT: All right. Thank you.
13 Bye.

14 BOB JARRELL: Bye.
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(CONFERENCE CALL INITIATED)

STEVE LAVIE: Hello. This is Steve Lavie from
the NRC.

STEVE AOKI: Hi. This is Steve Aoki, DOE.

STEVE LAVIE: Okay. Steve.

DAVE BOWMAN: This is Dave Bowman. We've got
(inaudible) our NARAC folks, NRC, (b)(6) and Dr.
Aoki.

STEVE LAVIE: Okay.

DAVE BOWMAN: Okay, so, I mean, NRC, this is Dave
Bowman again. You talked to me a little earlier today,
and I think this was sort of at your request to (inaudible).

So I'm going to turn it over to you.

(b)(5)

(b)(5)

STEVE LAVIE:

(b)(5)

(b)(5)

(b)(6)

(b)(5)

STEVE LAVIE:

(b)(5)

(b)(5)

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STEVE LAVIE:

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STEVE LAVIE:

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8 STEVE LAVIE:

(b)(5)

9 (b)(5)

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(b)(5)

14 STEVE AOKI: (Inaudible)

(b)(5)

15 (b)(5)

17 STEVE LAVIE:

(b)(5)

18 (b)(5)

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STEVE LAVIE:

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STEVE LAVIE:

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STEVE LAVIE: Now --

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STEVE LAVIE:

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Okay.

STEVE LAVIE:

(b)(5)

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STEVE LAVIE:

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(b)(5)

(inaudible).

STEVE LAVIE:

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STEVE LAVIE:

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FEMALE PARTICIPANT: (b)(5)

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FEMALE PARTICIPANT:

(b)(5)

(b)(6)

Right.

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

(b)(5)

STEVE LAVIE:

(b)(5)

STEVE AOKI:

(b)(5)

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13 (b)(6)

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MALE PARTICIPANT: What was the question?

16 FEMALE PARTICIPANT: (b)(5)

17 (b)(5)
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22 STEVE AOKI:

(b)(5)

23 (b)(5)
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STEVE AOKI:

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(b)(5)

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STEVE LAVIE:

(b)(5)

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(b)(5)

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(b)(5)

24

STEVE LAVIE:

(b)(5)

25

(b)(6)

(b)(5)

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1 (b)(5)

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2 STEVE LAVIE:

3 (b)(5)

6 (b)(6)

7 Yes.

8 STEVE LAVIE:

(b)(5)

9 (b)(5)

11 (b)(5)

11 Right. Right.

12 STEVE LAVIE:

(b)(5)

13 (b)(5)

14 STEVE AOKI: Okay, but --

15 (b)(6)

(b)(5)

16 (b)(5)

17 STEVE AOKI: All right.

18 (b)(6)

(b)(5)

19 (b)(5)

20 STEVE LAVIE:

(b)(5)

21 (b)(6)

(b)(5)

22 STEVE LAVIE: Yes.

23 (b)(6)

(b)(5)

24 STEVE LAVIE:

(b)(5)

25 (b)(5)

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1 STEVE AOKI: (b)(5)
2 (b)(5)
3 (b)(6) Yes.
4 MALE PARTICIPANT: (b)(5)
5 (b)(6) (b)(5)
6 (b)(5)
7 STEVE LAVIE: (b)(5)
8 (b)(5)
9
10 (b)(6) Okay.
11 STEVE LAVIE: (b)(5)
12 (b)(5)
13 (b)(6) (b)(5)
14 (b)(5)
15 STEVE LAVIE: (b)(5)
16 (b)(5)
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18 (b)(6) (b)(5)
19 STEVE LAVIE: (b)(5)
20 (b)(5)
21 (b)(6) (b)(5) --
22 STEVE LAVIE: (b)(5)
23 (b)(5)
24 (b)(6) (b)(5)
25 (b)(5)

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1 STEVE AOKI: (b)(5)
2 STEVE LAVIE: (b)(5)
3 (b)(5)
4 (b)(6) Yes. That would be great.
5 STEVE LAVIE: (b)(5)
6 (b)(5)
7 (b)(6) Oh. No. No. That's okay.
8 STEVE LAVIE: Okay.
9 (b)(6) (b)(5)
10 (b)(5)
11 STEVE LAVIE: (b)(5)
12 (b)(5)
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17 (b)(6) (b)(5)
18 STEVE LAVIE: (b)(5)
19 (b)(6) (b)(5)
20 STEVE LAVIE: (b)(5)
21 (b)(6) (b)(5)
22 STEVE LAVIE: Oh, yes. Yes.
23 (b)(6) (b)(5)
24 (b)(5)
25 STEVE LAVIE: Yes.

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1 (b)(6) (b)(5)
2 (b)(5)

3 STEVE LAVIE: Yes.

4 (b)(6) (b)(5)
5 (b)(5)

6 STEVE AOKI: Yes.

7 FEMALE PARTICIPANT: We have a question for the
8 NRC. Steve.

9 STEVE LAVIE: Yes.

10 FEMALE PARTICIPANT: (b)(5)
11 (b)(5)
12
13

14 STEVE LAVIE: (b)(5)
15 FEMALE PARTICIPANT: (b)(5)

16 (b)(5)
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23 STEVE LAVIE: (b)(5)

24 (b)(5)
25 FEMALE PARTICIPANT: (b)(5)

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1 STEVE LAVIE: (b)(5)

2 FEMALE PARTICIPANT: Okay. Okay. Thank you.

3 STEVE LAVIE: Thank you.

4 (b)(6)

(b)(5)

5 (b)(5)

6 STEVE LAVIE: Yes.

7 (b)(6)

(b)(5)

8 (b)(5)

9 STEVE LAVIE: Yes.

10 (b)(6)

(b)(5)

11 STEVE LAVIE: Yes.

12 (b)(6)

(b)(5)

13 (b)(5)

18 STEVE LAVIE:

(b)(5)

19 (b)(5)

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(b)(5)

(b)(5)

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FEMALE PARTICIPANT:

(b)(5)

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STEVE LAVIE:

(b)(5)

(b)(5)

FEMALE PARTICIPANT:

(b)(5)

(b)(6)

(b)(5)

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FEMALE PARTICIPANT:

(b)(5)

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1 STEVE LAVIE: Ten minutes.

2 FEMALE PARTICIPANT: (b)(5)

3 STEVE LAVIE: (b)(5)

4 (b)(5)

7 FEMALE PARTICIPANT: Okay. Thank you.

8 STEVE LAVIE: Okay. Thank you. So, let me make
9 sure --

10 MALE PARTICIPANT: (b)(5)

11 (b)(5)

17 (b)(6)

(b)(5)

18 (b)(5)

21 MALE PARTICIPANT: Okay.

22 (b)(6)

(b)(5)

23 (b)(5)

25 MALE PARTICIPANT: All right. Okay. Thank you.

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1 STEVE LAVIE: (b)(5)

2 (b)(5)

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5 (b)(6)

This is NRC?

6 STEVE LAVIE: Yes.

7 (b)(6)

(b)(5)

8 (b)(5)

9
10 STEVE LAVIE: Yes.

11 (b)(6)

(b)(5)

12 (b)(5)

13 STEVE LAVIE: Yes.

14 (b)(6)

15 Yes. If you provide that, that's
easy to add up.

16 STEVE LAVIE: You're Steve Aoki?

17 (b)(6)

No. I'm

(b)(6)

18 STEVE LAVIE: You're (b)(6)

19 (b)(6)

Yes.

20 STEVE LAVIE: Do we have his Email address?

21 (b)(6)

It's (b)(6)

(b)(6)

22 FEMALE PARTICIPANT: And it's

23 STEVE LAVIE: (b)(6) right?

24 (b)(6)

No. No.

(b)(6)

25 STEVE LAVIE: Oh T. I'm sorry.

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1 (b)(6)
2 STEVE LAVIE: (b)(6)
3 (b)(6)
4 (b)(6)
5 STEVE LAVIE: Right.
6 (b)(6) (b)(6)
7 (b)(6)
8 STEVE LAVIE: (b)(6) Okay.
9 (b)(5) Okay.
10 STEVE LAVIE: We'll copy that, we'll get that to
11 you.
12 (b)(5) Okay.
13 STEVE LAVIE: Okay. Thanks. Bye. Well, thank
14 you folks.
15 MALE PARTICIPANT: NRC, one question for you guys.
16 STEVE LAVIE: Certainly.
17 DAN: (b)(5)
18 (b)(5)
19 STEVE LAVIE: Yes.
20 DAN: (b)(5)
21 (b)(5)
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1 (b)(5)

2 STEVE LAVIE: (b)(5)

3 (b)(5)

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5 DAN: (b)(5)

6 (b)(5)

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11 STEVE LAVIE: Okay. We can do that.

12 FEMALE PARTICIPANT: (b)(5)

13 (b)(5)

14
15 DAN: (b)(5)

16 (b)(5)

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18 FEMALE PARTICIPANT: On a draft. Okay.

19 DAN: -- (b)(5)

20 (b)(5)

21
22 FEMALE PARTICIPANT: (b)(5)

23 (b)(5)

24 STEVE LAVIE: Thanks everybody.

25 KEVIN: Steve Lavie, are you still on?

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1 STEVE LAVIE: Yes.

2 KEVIN: Steve, this is Kevin at NARAC.

3 STEVE LAVIE: Yes, Kevin.

4 KEVIN: (b)(5)

5 (b)(5)

7 STEVE LAVIE: Yes.

8 KEVIN: (b)(5)

9 (b)(5)

10 STEVE LAVIE: (b)(5)

11 (b)(5)

12 FEMALE PARTICIPANT: (b)(5)

13 (b)(5)

14 STEVE LAVIE: (b)(5)

15 (b)(5)

16 FEMALE PARTICIPANT: Okay.

17 STEVE LAVIE: (b)(5)

18 (b)(5)

21 FEMALE PARTICIPANT: Thank you.

22 STEVE LAVIE: (b)(5)

23 (b)(5)

24 FEMALE PARTICIPANT: (b)(5)

25 (b)(5)

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(b)(5)

(b)(5)

FEMALE PARTICIPANT:

MALE PARTICIPANT: (Inaudible.)

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

FEMALE PARTICIPANT: Oh. Okay.

(b)(5)

FEMALE PARTICIPANT: Yes.

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

STEVE LAVIE: Sounds like tomorrow morning.

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

STEVE LAVIE: Yes. They're going to do that,
right.

FEMALE PARTICIPANT: And tomorrow, sometime
tomorrow morning.

STEVE LAVIE: Right.

FEMALE PARTICIPANT: Like what time?

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2 (b)(5)

3
4 STEVE LAVIE: (b)(5)

5 (b)(5)

6 FEMALE PARTICIPANT: Right.

7 STEVE LAVIE: (b)(5)

8 (b)(5)

9 FEMALE PARTICIPANT: (b)(5)

10 FEMALE PARTICIPANT: Yes.

11 FEMALE PARTICIPANT: (b)(5)

12 (b)(5)

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16 FEMALE PARTICIPANT: No.

17 FEMALE PARTICIPANT: (b)(5)

18 (b)(5)

19 FEMALE PARTICIPANT: Okay.

20 NEILE (phonetic): (b)(5)

21 (b)(5)

22
23 FEMALE PARTICIPANT: (b)(5)

24 (b)(5)

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1 NEILE: Okay. Thank you.

2 FEMALE PARTICIPANT: Thank you. Bye bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

MALE PARTICIPANT: Yes, ma'am. That's correct.

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

MALE PARTICIPANT:

(b)(5)

(b)(5)

FEMALE PARTICIPANT: Okay. Yes. We did get that.

MALE PARTICIPANT: Okay.

FEMALE PARTICIPANT: We have that. Thank you very much.

MALE PARTICIPANT: Most excellent. You have a good evening then.

FEMALE PARTICIPANT: All right. You too.

MALE PARTICIPANT: All right. Bye bye.

FEMALE PARTICIPANT: Bye.

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(CONFERENCE CALL INITIATED)

HEADQUARTERS OPERATIONS OFFICER: Hi. PMT?

STACEY ROSENBERG: Yes.

HEADQUARTERS OPERATIONS OFFICER: Hi.

Headquarters Operations Officer. I have a gentleman from Palo Verde on the line for you.

STACEY ROSENBERG: Oh. All right.

HEADQUARTERS OPERATIONS OFFICER: Can I put him through?

STACEY ROSENBERG: Sure.

HEADQUARTERS OPERATIONS OFFICER: Here he is.

STACEY ROSENBERG: Hello.

JAMES BAUMGARD (phonetic) : Hi. This is James Baumgard at the Palo Verde Nuclear Generating Station.

STACEY ROSENBERG: Hello. This is Stacey Rosenberg of the Protective Measures Team.

JAMES BAUMGARD: Good evening, Stacey. I just sent an electronic mail message containing our sample results for our daily samples today to you, and I wanted to verify that you'd received those.

STACEY ROSENBERG: James Baumgard. Let me just try to open the attachment. It's a fax, looks like.

JAMES BAUMGARD: One of the sample data sheet is

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1 a fax and the other one is a PDF of a previous message.

2 STACEY ROSENBERG: Okay. Let me take a look at
3 that.

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(CONFERENCE CALL INITIATED)

CINDY JONES: Cindy Jones, Protective Measures,
NRC.

OPERATOR: Hi Cindy. I got Alan Blamey of the
Japan team.

CINDY JONES: Yes. Hi, how are you?

OPERATOR: Well, hold on. I'll connect you
through.

ALAN BLAMEY: Hello.

CINDY JONES: Hello. Hi. This is Cindy Jones at
the NRC.

ALAN BLAMEY: Cindy, Alan Blamey calling with the
Japan team.

CINDY JONES: Hi, Alan.

ALAN BLAMEY: Hi. Hey, I have quick favor to ask
you guys. At this point in time, we're in the, I shouldn't
say we, the United States Government is in the process
of offering about a million doses of it's KI out of the
strategic stockpile.

The issue with that, and I shouldn't say there's
an issue with it, but one of the items, the expiration
date is coming up very, in short order. And I talked
with the CDC person here at the embassy right now, and
they aren't requesting any specific help.

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1 However, I worked with Trish Milligan a while
2 ago. And I know she did some work on shelf life expiration.

3 And all I wanted to do, if I get a phone call from the
4 CDC person later today, I'd just like to verify that
5 Trish is still working for, she's available to answer
6 questions on shelf life and provide any information that
7 may be applicable.

8 CINDY JONES: Yes. She's not on shift tonight,
9 but she is available, and I recall when that came up
10 two years ago or so, she actually tried to get a letter
11 from Ambex (phonetic) regarding the shelf life and
12 extension and so forth. And we may be able to have that.

13 I know there was some difficulty by them because
14 they wanted to be able to have, you know, (b)(5)

15 (b)(5)

16
17 ALAN BLAMEY: Yes.

18 CINDY JONES: And it's my understanding that CDC
19 or the strategic stockpile did not have a lot of KI available.

20 They do have a number of child doses that we could use
21 for adults. They would just have to increase the amount,
22 I think it's in liquid form.

23 ALAN BLAMEY: Right.

24 CINDY JONES: But, yes, she would, Trish would
25 still be available for answering questions on that.

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1 ALAN BLAMEY: Okay. Yes.

(b)(5)

2 (b)(5)

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6 CINDY JONES: Exactly.

7 ALAN BLAMEY: You know. So, while we know that's
8 not the case, we don't want to give the opinion that
9 it is. So, the individual, I did let him know that we
10 may have that information if needed. So.

11 CINDY JONES: Is there a way that I can get maybe
12 your email? What I can send is an email to Trish tonight.
13 When she gets it in the morning, she has that paperwork.
14 We can electronically send that to you.

15 ALAN BLAMEY: Oh. That would be fine. That would
16 be fine. My email is alan.blamey and the spelling is
17 A-L-A-N dot B-L-A-M as in Michael, E as in Edward, Y
18 as in Yankee.

19 CINDY JONES: Okay.

20 ALAN BLAMEY: And then if she has a chance, if
21 she's on tonight, if she can go back and pull some of
22 that stuff. Now, this is will be going to CDC, so it's
23 an inter-government. And they may not even need it at
24 this point in time. But I just wanted to verify that
25 if they do need it that we'd be able to turn that around

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1 fairly quickly.

2 CINDY JONES: Okay. Great. And Alan, it's
3 alan.blamey, B-L-A-M-E-Y, and it is at what?

4 ALAN BLAMEY: NRC.gov.

5 CINDY JONES: Okay. Great. Very good. Thanks,
6 Alan.

7 ALAN BLAMEY: Okay. Thank you.

8 CINDY JONES: And I'll cc you on the email I send
9 to Trish too.

10 ALAN BLAMEY: Okay. Excellent.

11 CINDY JONES: And you'll be getting it from PMT12,
12 just so you know.

13 ALAN BLAMEY: Okay. Thank you very much.

14 CINDY JONES: Thank you. Bye bye.

15 ALAN BLAMEY: So long.

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(CONFERENCE CALL INITIATED)

STEVE: (Inaudible.)

CINDY: Hey, Steve. It's Cindy.

STEVE: Hi, Cindy.

CINDY: Stacey, we just got a call from the White House regarding the information on that containment. Stacey, do you want to mention what you heard, so, I don't think you're going to need to work on the --

STEVE: Okay. I'm on my way up. I've reached to a point where I'm wasting my time, I believe. I (inaudible) get this out.

CINDY: Yes. I think, just come on up and forget about it.

STEVE: The units are not canceling, and I don't know why. So, I'm going to close this out and come up.

CINDY: That would be great.

STEVE: Thank you.

CINDY: Thanks.

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(CONFERENCE CALL INITIATED)

LUTAVIS (phonetic): NARAC. This is Lutavis.

STEVE LAVIE: Yes, Lutavis, this is Steve Lavis from the U.S. Nuclear Regulatory Commission Protective Measures Team. Could you connect me with, if he's still there, Ken Foster (phonetic) or Gail (phonetic) --

LUTAVIS: Sure. Just one minute. And I'm sorry your name was Steve Lavie?

STEVE LAVIE: Steve Lavie. Yes.

LUTAVIS: Just one minute, please. Thank you.

GAIL: Hi, Steve. This is Gail.

STEVE LAVIE: Hi, Gail. You're voice isn't familiar.

GAIL: Your voice is. We finally learned to spell your name correctly.

STEVE LAVIE: Oh, well. I'm not really worried about, all the way through high school and elementary school, I was always called Lavine.

GAIL: Lavine? Okay. We were having it Levy like L-E-V-Y.

STEVE LAVIE: Same direction. My parents used to get really -- Anyway, this is what, we have been trying to mess with the five percent, five-inch hole thingy.

GAIL: Oh, yes, the Unit 2?

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1 STEVE LAVIE: Yes. (b)(5)

2 (b)(5)

3
4
5 GAIL: Oh. (b)(5)

6 STEVE LAVIE: (b)(5)

7 (b)(5)

8 GAIL: Okay. I know you'll kind of keep working
9 on it, but we're just going to assume right now, to get
10 our runs done, that Unit 2 release is what RASCAL and
11 the 48 hour releases. You know, basically what you gave
12 us exactly --

13 STEVE LAVIE: I was going to suggest, you know,
14 in as much as this, even if the hole was there, okay,
15 that once the containment goes atmospheric, the release
16 is going to stop.

17 GAIL: All right.

18 STEVE LAVIE: The containment, undoubtedly, went
19 (inaudible) atmospheric after about a day. So, what I'm
20 going to suggest to you is take the Unit 3 one because
21 the power levels are consistent, and just multiply by
22 two, because the Unit 3, we're already giving it to you
23 for 100 percent.

24 GAIL: So, you are suggesting we just drop the
25 Unit 2 source you provided and use twice Unit 3?

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1 STEVE LAVIE: That's right. That'll be 100
2 percent.

3 GAIL: But Unit 2 and Unit 3 release at different
4 times.

5 STEVE LAVIE: Yeah. You're right. We'll rerun
6 it. I forgot about the release times. We'll get that
7 going.

8 GAIL: (Inaudible) because we have to run now
9 because, you know, we have to get something out by morning.

10 STEVE LAVIE: Right.

11 GAIL: We're running right now with your updated,
12 which looked like it was just multiplied by a factor
13 of six.

14 STEVE LAVIE: Well, what were you going to do with
15 the five percent? Now, explain it to me again because
16 earlier we weren't, you indicated you weren't going to
17 be able to do anything with it. So, are you going to
18 put in for 48 hours?

19 GAIL: Yes. Right now, that's what we're running
20 with. Okay, so, Unit 1 we are using, we used your six
21 (inaudible) you multiplied by six, right?

22 STEVE LAVIE: Right. Yes. That gives us 12 days.

23 GAIL: And at over 12 days, right?

24 STEVE LAVIE: Yes.

25 GAIL: On Unit 3, we just did what we did. That

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1 was already 24 hours.

2 STEVE LAVIE: Right.

3 GAIL: So, that's fine. So, Unit 2, we just use
4 exactly what you provided, you know, the RASCAL 48 hour
5 source term. That's it. Whatever was out in there, that's
6 what we put in.

7 STEVE LAVIE: Okay. Then you have everything we
8 can give you.

9 GAIL: Right. So, I mean, but, I mean, we're not,
10 you know, we really don't, I mean, I don't really feel
11 up to running yet another variant.

12 STEVE LAVIE: Right. We're suggesting not. You
13 know, what I was trying to do was address your concerns
14 earlier about the five inch hole, and unfortunately,
15 we hit a roadblock on that.

16 GAIL: Yes. We don't have any idea what the Unit,
17 you know, if the Unit 2 is release -- I think it closed
18 off after 48 hours and this is a reasonable source term.
19 If it isn't, but, I mean, we just had to go. So, that's
20 what we did.

21 STEVE LAVIE: Right.

22 GAIL: The other thing we are doing just because
23 we were playing around with it before you called back
24 with the, you know, the factor of six for Unit 1, is
25 we had actually calculated a every two days using the

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1 idea that, you know, there was 10 percent leakage. So,
2 we just inverted the (inaudible) exponential formula.

3 STEVE LAVIE: We considered doing that and the
4 one thing we did in this is that we had no way of restarting
5 RASCAL. We would always have to go back to the initial
6 activity.

7 GAIL: All right. So, we just did this by hand,
8 right? We just figured out for every, and we only did
9 it on the two day, you know, two day level of resolution.
10 We just did the, you know, the 10 percent per day, right?
11 Ten percent of what's left per day.

12 STEVE LAVIE: Yes. Let me just refresh what we've
13 discussed. Someone is listening over my shoulder. Unit
14 1, we're using 70 percent core melt, and we gave you
15 ten percent release rate. We multiplied that by six.

16 GAIL: Right. That's what you gave us. That's
17 correct.

18 STEVE LAVIE: Okay. For Unit 3, we gave you 33
19 percent and the 5-1/2 inch leak rate, and that's what
20 you're going to use.

21 GAIL: Exactly as it came out of RASCAL. The 48
22 hour source term.

23 STEVE LAVIE: And then Unit 3 should be 33 percent
24 core melt, which is what we gave you in the RASCAL run.
25 The 100 percent release rate per day.

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1 GAIL: All right. So, we just have a, over 24
2 hours we just release it.

3 STEVE LAVIE: Right.

4 GAIL: And use what you gave us. Yes.

5 STEVE LAVIE: Yes. Okay. So, I think we're both
6 in sync here. Maybe tomorrow in the daylight when they
7 get some engineers around, maybe they can figure out
8 what the hell the deal is with this five inch hole.

9 GAIL: Okay.

10 STEVE LAVIE: But right now, that's what we have.

11 GAIL: We'll just update and tell them that, you
12 know, you guys will look at it further, but for tonight,
13 we don't expect it.

14 STEVE LAVIE: We're putting that in a --

15 GAIL: Hello?

16 STEVE LAVIE: Yes.

17 GAIL: Sorry. (inaudible) got cut off for a
18 second.

19 STEVE LAVIE: You went on mute for a second.

20 GAIL: Okay.

21 STEVE LAVIE: Okay. With that, we'll let you get
22 back to work. Thank you. Sorry for the confusion and
23 everything else that's going on.

24 GAIL: Okay. So, yes. We'll just put it in the
25 log and let DOE know that you were not expecting an update

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1 for the Unit 2 so we ran it as is. That would be fine.

2 STEVE LAVIE: I don't have any problem with that.

3 GAIL: Okay. All right. Thank you, Steve.

4 STEVE LAVIE: Thank you, Gail.

5 FEMALE PARTICIPANT: Thanks.

6 GAIL: All right. Goodnight.

7 FEMALE PARTICIPANT: Goodnight.

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

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PMT Polycom Table Phone Audio Files

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(CONFERENCE CALL INITIATED)

JIM LUEHMAN: This is Jim Luehman at the Nuclear Regulatory Commission. I am either on the phone or away from my desk. At the tone, please leave me a message, and I'll get back to you as soon as I can.

TERRY: Hey, Jim, it's Terry in the Ops Center. Can you please give me a call. I understand this phone doesn't work. So call 5100 and ask to be patched to the PMT.

I got Joe Decicco down here too on a satellite assignment. And he needs to go out of town. I want to know, can we free up Nima for the rest of the day, And possibly a half day tomorrow to relieve Joe? Joe needs, he just needs to go out. He's got a personal commitment. Let me know. Thank you.

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RECORDING: Welcome. You have reached the audio conferencing system. After the tone enter your conference pass code, followed by the pound key. Thank you. You are currently the only participant in this conference.

(Background conversations)

LEE VEAL: Hi, this is Lee Vel with EPA.

TERRY REIS: Hi, Lee, the NRC is on the line. My name is Terry Reis. And I have with me Kathy Brock and --

JASON LISING: Jason Lising.

TERRY REIS: Thank you.

LEE VEAL: Okay. And I have with me Sarah DeCair. And Debbie Dietrich is in -- I know they may join us shortly, our AAL in Homeland Security.

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(CONFERENCE CALL INITIATED)

LEE VEAL: Hi, NRC?

TERRY REIS: Yes, it was Terry and Kathy.

LEE VEAL: Oh, Terry, I'm sorry. I just wanted to say, in reading your note, I wanted to let you know that we do have intense public interest. We're getting something around the order of five million hits on our website for the month. Sort of in that range on average.

JOHN: Hi, this is John.

LEE VEAL: Hi, John.

TERRY REIS: Okay.

LEE VEAL: EPA is on, John, and NRC.

JOHN: Very good.

TERRY REIS: Hi, John. From the NRC, my name is Terry Reis. I'm the Protective Measures Team Director, at least on this shift. And I have, my assistant is Kathy Brock. Absolutely, we have a big interest in this topic. We want to get this solved.

JOHN: So I hope I captured the questions that we have properly. If not, let me know. I'm sure people may have other questions as well.

TERRY REIS: Well, John, can I jump right in there?

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1 JOHN: Please do, yes.

2 TERRY REIS: We think what's missing is what
3 we wrote in our initial email is, how is the -- You
4 got, how are we going to integrate it and communicate
5 it among the federal family. We're more interested in
6 how are we going to integrate it and communicate it to
7 the public, and manage the information to the public.

8 JOHN: Okay. So you're okay with it being
9 shared within the federal family? Is that correct?

10 TERRY REIS: Yes.

11 JOHN: Okay. That's -- We needed to make
12 sure that was the case. Because given that it's
13 voluntarily supplied data, that's not a given. So I
14 guess Lee, you know, you guys automatically put up data,
15 your data up to the public.

16 That doesn't mean that this data has to be
17 put up for the public. And I think we should just discuss
18 what the merits are, or demerits going into (inaudible).

19 LEE VEAL: I think that's, we really do need
20 to discuss that. EPA does feel strongly for our own
21 data, and it's release of course. But we're getting
22 things sent voluntarily from plants, you know, that is
23 another completely different area.

24 And we'd want to work very closely with NRC,
25 to see what you guys are thinking about in terms of public

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1 releases for that. Because that can be tricky for us
2 as well. I mean, I was just under the impression we
3 were going to try to consolidate this information for
4 the federal family.

5 JOHN: That's my first --

6 KATHY BROCK: Well maybe that gets
7 consolidated for the federal family. But we have to
8 have some kind of communication idea of what we're going
9 to share with the people.

10 TERRY REIS: Yes, we have to think ahead.
11 I don't know how we could possibly, you know, just keep
12 it among the federal family. I mean, it's a fact that
13 we have these elevated levels.

14 And, I mean, I think the, you know, speaking
15 for the NRC, I think we always have an interest in being
16 open and transparent with the public. But, you know,
17 we --

18 The direction that I'm getting from my
19 superiors is, we don't want to be the agency to manage
20 this data, and communicating it. But on the other hand,
21 we certainly don't want to hide it.

22 JOHN: So that's fine. So I think we should
23 support that, and figure out what we ought to be doing.

24 And I do think that EPA is the right people to be managing
25 it.

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1 Let's see. I don't think that, I mean, do
2 you think that this is an acute issue, that we need to
3 be ready to say something in the next three or four days?

4 Or do you think this is something that over the next
5 couple of weeks we need to manage?

6 SARAH DECAIR: I have a suggestion. This
7 is Sarah DeCair from EPA.

8 JOHN: Yes.

9 SARAH DECAIR: You know, we've prepared,
10 EPA has always prepared for this type of incident. Because
11 we've had a leadership role in the past, historically,
12 when foreign nuclear incidents potentially had impact
13 in the U.S. So we really have thought this through to
14 a great extent.

15 I think since we have RadNet, and since we're
16 already fully engaged, and fully lean forward on providing
17 public information, providing media information,
18 updating our web pages, and trying to paint the broad
19 brush picture of what the radiation levels are, what
20 concerns they should have regarding those levels. I
21 think we're in a really good position to do that
22 coordination for messaging.

23 JOHN: Great.

24 SARAH DECAIR: I think we're willing to pull
25 together and evaluate across programs, the radiological

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1 data in the U.S. Because we know that nobody else is
2 coordinating that yet. Nobody else is pulling that
3 together.

4 Like, for a domestic incident FRMC (phonetic)
5 would pull states and federal, and everybody's data
6 together. But they're obviously busy (inaudible).
7 We're willing to pull that together.

8 We've been testing out a draft spreadsheet,
9 where we pull in comprehensive test ban treaty data,
10 and a few nuclear power plant pieces of data, and put
11 that next to our RadNet data, just to be able to provide
12 the message that, at least as of today, radiological
13 levels in the U.S. appear to (inaudible) across the
14 programs that are doing measurements.

15 Those measurements appear consistent across
16 the United States, west coast to east coast. And we
17 haven't noticed any significant increases or decreases
18 in those levels.

19 So I think that's a coordinated public message
20 that, like in the first few days of this incident, we
21 had to coordinate our public messaging with Department
22 of Energy. So our public information offices from those
23 two agencies, and with NRC as well, we put, held hands,
24 wrote messages together, and issued coordinated public
25 information messages. I think we can do that again.

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1 I don't think EPA is willing or able to message
2 around specifically nuclear power plant data, or pouncing
3 on some test and treaty data, other than to say, that
4 we've looked at information from other programs, and
5 agree that, you know, the good news is, we're consistent
6 across programs.

7 We have different measuring techniques,
8 though, and different quality assurance techniques.
9 So we can't really put ourselves in a position to message
10 on those specific programs, outside of ours.

11 JOHN: But you can say, overall, this is
12 what we're seeing with our assets, and what it should
13 mean to the public.

14 TERRY REIS: Yes.

15 LEE VEAL: Yes, that kind of information.
16 Because again, when you're trying to -- Here's a good
17 example. When you have the nuclear power plant
18 methodology, and the sites, and the data they are producing,
19 once that goes public you would be surprised at the level
20 of questions.

21 Because we have just been fielding them on
22 RadNet. That you get regarding the methodology. How
23 did you collect it? Where did you collect it? And how
24 long did you collect it? It's amazing the level of detail
25 on that kind of question.

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1 And that information really only resides
2 with the power plant running the device. And they do
3 come up. We could make, you know, much broader statements,
4 as Sarah indicated.

5 But actually managing the data is a whole
6 different level of effort that I don't think probably
7 any of our agencies are ready to try and take on. Is
8 NEI planning to do any sort of public release on these
9 data, that would be helpful?

10 TERRY REIS: Well I don't know the answer
11 to that. I can try to pursue that. But we are, you know,
12 I think we're sensitive. And my management's sense of
13 it is, we don't -- We have a little bit of a heartburn
14 with NEI taking a lead role in this, and taking the posture
15 on it.

16 Because we think that, you know, the American
17 people deserve their Government to be telling them that,
18 you know, this is okay, or it's not okay, rather than
19 an industry trade group.

20 LEE VEAL: Yes. But that is the other part
21 of that equation that we have to consider, however.
22 Because they are obviously, anybody with radiation
23 monitoring can do whatever they want to on the web,
24 including, you know, releasing things.

25 I don't think generally from what we've seen

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1 so far there are any inconsistencies at all. So that
2 maybe I'm worried about an issue that isn't going to
3 occur.

4 TERRY REIS: You're not seeing elevated
5 levels of iodine and cesium?

6 LEE VEAL: We are. I'm sorry, I don't mean
7 that. I don't see any inconsistencies between the various
8 networks, in terms of, we are all seeing some elevated
9 levels nationwide, at various place, for iodine and cesium.

10 And we expect that to continue for some period, while
11 this incident is still unfolding.

12 SARAH DECAIR: Well maybe that's a good
13 message.

14 LEE VEAL: But we're not seeing, you know,
15 violations of a public health level, for example --

16 JOHN: Yes, I would --

17 LEE VEAL: -- in our plant data, that we
18 wouldn't see in our own data. That's what I mean by
19 consistency.

20 TERRY REIS: Yes. I think that message would
21 --

22 LEE VEAL: I didn't mean to be confusing
23 there.

24 TERRY REIS: Okay.

25 SARAH DECAIR: And I was curious. Because,

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1 I mean, I think, you know, that EPA and DoE have issued
2 a couple of joint press statements in the past few days,
3 because we've had detections.

4 DoE came up first with a detection that was
5 leaked. And then we got a detection. And we have issued
6 joint press statements to that effect. So, yes, we're
7 already messaging around slightly elevated levels, you
8 know, they're not levels of concern.

9 I think, I'm sure our press office would
10 be glad to coordinate with Nuclear Regulatory Commission
11 to make sure that either we have statements in our press
12 releases that are jointly crafted, and echo each others
13 sentiments --

14 TERRY REIS: That would be great.

15 SARAH DECAIR: I think, you know, I think
16 even NRC should probably be cautious. Because if it's
17 nuclear power plant data, not NRC collected data, you
18 know, again, the plant would be the voice to issue that.

19 TERRY REIS: Well it is -- Let me clarify
20 that. It is going to be NRC collected data. Because
21 --

22 SARAH DECAIR: Okay.

23 TERRY REIS: -- we are going out with an
24 instrument that's called a Regulatory Issue Summary,
25 and asking the plants to voluntarily report it. And

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1 then we'll be the funnel to get it to the EPA.

2 LEE VEAL: Oh, that's helpful, yes. That
3 takes us to a different area for --

4 TERRY REIS: Okay. But right -- You know,
5 that's going to take several days to get in place. But
6 right now you're getting it from wherever you're getting
7 it. I don't know where -- I think it's from us, but
8 not through --

9 LEE VEAL: Unofficial, yes.

10 TERRY REIS: -- just (inaudible).

11 LEE VEAL: Okay, that's helpful to know.
12 Is NRC interested in working, do you have a press person
13 that would want to work on a joint statement on these
14 data?

15 TERRY REIS: Eliot Brenner is the press
16 manager on this. And, yes. And he'll reach out to us
17 over here to help them out. So just contact Eliot.

18 LEE VEAL: Because what we could do is take
19 this in a couple of steps. Just have the technical people
20 look at the information that's available.

21 TERRY REIS: Okay.

22 LEE VEAL: Both ours --

23 TERRY REIS: Well we --

24 LEE VEAL: -- as well as NRC. And then have
25 the press officials work on that. We've had a lot of

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1 questions over here, that we could probably come up with
2 a list of typical Q&As --

3 TERRY REIS: Okay.

4 LEE VEAL: -- that might be applicable.
5 And see what you all think about that.

6 TERRY REIS: Well, yes, and --

7 SARAH DECAIR: That would be great.

8 KATHY BROCK: (inaudible) work on it.

9 TERRY REIS: I'll tell you, I'm very pleased
10 that this is, that you're willing to take the lead on
11 this. We really appreciate it. Because we've got enough
12 to do over here. And --

13 LEE VEAL: Well you're doing olympic work
14 in Japan too, as I understand it. I keep up with the
15 situation reports there as well.

16 TERRY REIS: Okay. Can I -- Who did --

17 LEE VEAL: John?

18 TERRY REIS: Can I just get your names again,
19 of who we're making these agreements with?

20 LEE VEAL: Okay. This is Lee Veal, V as
21 in Victor --

22 TERRY REIS: Yes, I got it in the email.

23 LEE VEAL: I'm the Director for Emergency
24 Management, the Center for Emergency Management, EPA.
25 Radiological Emergency Management at EPA. I'm sorry,

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1 it's been a long day all week.

2 TERRY REIS: Okay.

3 LEE VEAL: And we have Sarah DeCair, who
4 is HPNR group and a A team member. Decair is D-E-C-A-I-R.

5 I'm trying to represent, Debbie Dietrich is our political
6 leadership that was invited to this call, and is in another
7 meeting on Japan right now. And what we can do is formalize
8 this in an email. I think we have emails at this point.

9 TERRY REIS: Okay.

10 LEE VEAL: So I have John.

11 TERRY REIS: Right. You've been
12 communicating with -- We're pmt12.hoc@nrc.gov. And we
13 have directors around the shift. So, you know, currently
14 you're talking to Terry Reis and Kathryn Brock.

15 LEE VEAL: Okay. And that's pmt12, no dashes
16 or anything?

17 TERRY REIS: No, there is. I'm sorry. It's
18 pmt12, period, H-O-C, Headquarters Operations Center,
19 at NRC, Nuclear Regulatory Commission, dot gov.

20 LEE VEAL: John, does all this work for you?

21 JOHN: It sure does.

22 LEE VEAL: I'm sorry? I'm sorry? Yes, we
23 do not have DoE on the phone regarding this CTBT data.

24 John, do you think we need to have a conversation like
25 this with them? Or do you want us to just resolve it

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1 ourselves with DoE directly --

2 JOHN: If you want to give it a shot --

3 LEE VEAL: -- because it's part of the
4 agreement in getting that information, is that we weren't
5 going to do the press release.

6 JOHN: Yes. Why don't you give it a shot
7 with them. And let me know if there's questions.

8 LEE VEAL: Okay.

9 SARAH DECAIR: Yes, the good news is, we've
10 already been issuing those joint press releases with
11 Department of Energy. So our press offices are well
12 hooked up on that.

13 And it's just we have to kind of take the
14 temperature on whether we can say anything regarding
15 their CTBT data. And I bet we can't. But we can say
16 we looked at it. And that should make everybody pretty
17 happy.

18 LEE VEAL: Well I do want to be very sensitive
19 to, you know, if we're building partnerships here, data
20 sharing. If we have an agreement to do something, I
21 want to do it. Or an agreement not to do something,
22 I want to be very mindful of that as well.

23 Otherwise the message will be that we don't
24 cooperate very well. Is there anything else we need
25 to discuss? Let's see, on John's question is, we're

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1 talking a little bit about, a little bit more specifically
2 on how the data would be packaged into a data product,
3 and shared with the federal family.

4 TERRY REIS: And again, we're okay with
5 sharing with the federal family.

6 LEE VEAL: The overall message.

7 JOHN: Yes. So you know what? I was really
8 heading towards the question that we were asking.

9 LEE VEAL: Oh, okay.

10 JOHN: I wasn't sure that we were going public.
11 And so I think you guys know what you want to do, in
12 terms of the data product. I thought that (inaudible)
13 NRC with that. And we already know that we can share
14 it within the family.

15 And then when I talk about message, I think
16 we do have two messages that we need to think about.
17 One is the decision makers. And the other is the public.
18 And we know how to do that. And I think we can move
19 forward from there.

20 LEE VEAL: Okay, well --

21 TERRY REIS: Okay.

22 LEE VEAL: Good. I will, we'll write up
23 some notes on this. We'll get it out to the group to
24 make sure we have a joint understanding. We will bring
25 in one of our, include the public information, you know,

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1 director for the POC, and loop them in.

2 I'm thinking here. I'll brief up to Debbie.

3 And we'll move from there. It will be a little while,
4 you said, before you can execute the, I assume it's a
5 legal vehicle that you're working with with the plants,
6 to make those data available. And we'll wait to hear
7 from you on that?

8 TERRY REIS: Okay. Great.

9 LEE VEAL: Great. Anything else, John?

10 JOHN: That will do.

11 TERRY REIS: John, thanks for taking the
12 lead on this, for coordinating it.

13 JOHN: Noproblem. Thanks for all your help,
14 everybody.

15 LEE VEAL: Sure thing.

16 JOHN: Okay. See you.

17 LEE VEAL: Bye, bye.

18 TERRY REIS: All right. Thanks.
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(CONFERENCE CALL INITIATED)

HEADQUARTERS OPERATIONS OFFICER: Hello?

MALE PARTICIPANT: Hello.

HEADQUARTERS OPERATIONS OFFICER: Hi,
Headquarters Operations Officer. I have DoE on the line,
Dave, from DoE. Is it okay to put him through? Or should
I transfer him to a different number.

FEMALE PARTICIPANT: Oh, go ahead.

MALE PARTICIPANT: Go ahead.

HEADQUARTERS OPERATIONS OFFICER: Okay.
Here he is.

FEMALE PARTICIPANT: Hello.

DAVE TUGMAN (phonetic): Hello, this is Dave
Tugman from DoE. Have I reached the Protective Measures
Team?

FEMALE PARTICIPANT: Yes, you have.

DAVE TUGMAN: We would like to set up a
conference call with the White House, (inaudible), NARAC
and ourselves, to review the final stamp of approval
on the latest team model run by DoE and NRC's source
com. Are you guys available at 6:10? That's 20 minutes
from now.

FEMALE PARTICIPANT: At 6 o'clock? I'm
sorry?

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1 DAVE TUGMAN: Well, we wanted to give a little
2 bit of time. Say 6:10?

3 FEMALE PARTICIPANT: Yes.

4 DAVE TUGMAN: Okay. Are you ready to copy
5 down the number?

6 FEMALE PARTICIPANT: Yes, we are.

7 DAVE TUGMAN: Stand by.
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DAVE TUGMAN: Okay, ready to copy. It's

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FEMALE PARTICIPANT: (b)(6)

DAVE TUGMAN: 245.

FEMALE PARTICIPANT: (b)(6)

DAVE TUGMAN: (b)(6)

FEMALE PARTICIPANT: (b)(6)

DAVE TUGMAN: With a PIN code of --

FEMALE PARTICIPANT: Okay.

DAVE TUGMAN: (b)(6)

FEMALE PARTICIPANT: (b)(6)

DAVE TUGMAN: Correct.

FEMALE PARTICIPANT: Okay. At 6:10 p.m.

eastern time?

DAVE TUGMAN: Correct. About 20 minutes

from now.

FEMALE PARTICIPANT: Thank you.

DAVE TUGMAN: Thank you very much.

FEMALE PARTICIPANT: Bye, bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Yes. And it says, this is our plausible and realistic modeling scenario.

MALE PARTICIPANT: Yes. Although maybe we'll have to think of a better name. Yes, yes. Have you had a chance to review that, to see if it, if you're satisfied with the, you know, that the source term was the one that you specified?

FEMALE PARTICIPANT: Yes, it was reviewed by the previous shift. And they did verify that it was the source term that we had sent, and had all agreed upon.

MALE PARTICIPANT: Okay. Well, (b)(6) I think then, your questions are really for NARAC, right?

(b)(6) Right.

MALE PARTICIPANT: My fervent hope is that having done this, the transport, that all the results are stored. And with, I'm just going to call it post processing, they can produce whatever report we would want.

FEMALE PARTICIPANT: Without too much machinations for the next bit of products, you mean?

MALE PARTICIPANT: Yes. Yes, I think, I am hoping that that is a straightforward thing that doesn't

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1 take a long time to product.

2 FEMALE PARTICIPANT: Right.

3 MALE PARTICIPANT: I think the thing that's
4 time consuming is to actually do the atmospheric transport.

5 But after they've done that, and the have all of the
6 output from that, and that's all stored, then I assume,
7 and they have all the concentrations on the ground, and
8 that, you know, all the depositions to produce doses
9 for other times. Again, I'm just hoping. I'm hoping.

10 FEMALE PARTICIPANT: We'll find out.

11 MALE PARTICIPANT: I'm hoping.

12 MALE PARTICIPANT: Got a plan, right?

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: While we're still waiting
15 for NARAC to come on, can we just verify that we are
16 all looking at the same pieces of paper here?

17 MALE PARTICIPANT: Sure.

18 FEMALE PARTICIPANT: Sure.

19 MALE PARTICIPANT: Okay. So there is a set
20 of power point slides, says at the bottom, 1600 UCC Smart
21 25?

22 FEMALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: Okay. And then there
24 is a document, a report version --

25 FEMALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: -- that says at the top,
2 issued March 25 at 2007?

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: Okay.

5 MALE PARTICIPANT: Wait, at what time?

6 FEMALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Because the line says
8 1518 UTC.

9 MALE PARTICIPANT: Is that a different, are
10 we looking at different things here?

11 MALE PARTICIPANT: Wait. It says issued
12 March 25?

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: 1518, right?

15 MALE PARTICIPANT: Okay. Mine says 2007.

16 Is that --

17 FEMALE PARTICIPANT: Yes, mine says 1518.

18 FEMALE PARTICIPANT: NRC says 1518.

19 MALE PARTICIPANT: All right.

20 MALE PARTICIPANT: Stand by.

21 MALE PARTICIPANT: Just check things like
22 that.

23 FEMALE PARTICIPANT: A man with a lot of
24 experience.

25 MALE PARTICIPANT: Well you got an updated

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1 one. So you've been upgraded.

2 MALE PARTICIPANT: I have no idea if it's
3 been upgraded, or it's the time stamp when it was printed,
4 or something.

5 MALE PARTICIPANT: Is NARAC on the line?
6 We'll get them on the right bridge.

7 MALE PARTICIPANT: Okay.
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(CONFERENCE CALL INITIATED)

CINDY JONES: Hi, this is Cindy. I just sent NARAC an email. And have you tried to call them directly?

DALE (phonetic): Yes, this is Dale. I mean

--

CINDY JONES: Oh, okay. Sorry, Dale.

DALE: I'm looking for the (inaudible) that, you know, you asked for. I mean, we're still looking for it. I sent you at least two drafts. I don't know if they're the right thing. Someone's out there looking for the final one, because I didn't have it immediately available.

I have a hard copy printout, but not the report. So we sent you out two things daily. We sent you out the consequence reports separately. And then I sent you out a draft of the document, which is probably the same as this one.

But we just, I just haven't been able to find the final one yet. So you guys can check your email. Someone's looking now for the PDF that we put it all together in. But they haven't found it yet.

STEVE AOKI: I think the actionable thing for the purpose of sharing with the Japanese is this set of slides labeled 1600. Is that correct? That's

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1 what we're talking about. Yes, they're (inaudible),
2 yes, this. Okay.

3 So let's, maybe we should concentrate on
4 that. And just make sure that we are looking at that.
5 And confirm that everyone has reviewed it and we're
6 happy with it.

7 DALE: Could you guys restate what it is
8 you're looking at? Sorry, I've been out trying to find
9 these things.

10 STEVE AOKI: DoE NARAC simulation of a
11 plausible realistic case, TRC --

12 DALE: Okay. All right. So that's the one
13 we worked on yesterday. Is that correct?

14 STEVE AOKI: That was task (inaudible) --

15 MALE PARTICIPANT: Not today.

16 MALE PARTICIPANT: Issued last night.

17 STEVE AOKI: Did it last night, came out
18 today.

19 DALE: You did it last night and the final
20 copies came out to you guys today?

21 (b)(6) Yes.

22 DALE: Okay. Thank you.

23 STEVE AOKI: (b)(5)

24 (b)(5)

25 MALE PARTICIPANT:

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(CONFERENCE CALL INITIATED)

RECORDING: Welcome to the teladvantage conference manager. Please enter your conference ID.

FEMALE PARTICIPANT: We can do it real quick. Michelle can start.

RECORDING: There are currently four people in the conference. Please hold while we connect you. Please say your name.

FEMALE PARTICIPANT: Protective Measures Team, NRC.

RECORDING: Thank you.

FEMALE PARTICIPANT: Hello, this is the NRC Protective Measures Team.

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FEMALE PARTICIPANT:

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CINDY JONES:

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CINDY JONES: Cindy Jones, NRC, this is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Hi, Cindy, this is the HOO. I got Jack Foster on the line from Japan.

CINDY JONES: Great.

HEADQUARTERS OPERATIONS OFFICER: I'll patch him through. Here he is.

CINDY JONES: Hey, Jack.

JACK FOSTER: Hi, who is this?

CINDY JONES: This is Cindy Jones.

JACK FOSTER: Cindy, this is Jack Foster. I have Marie Miller here and Todd Jackson.

CINDY JONES: Good.

JACK FOSTER: Marie and Todd are, by the way, going to be replacing me. I'm leaving tomorrow.

So we wanted to go ahead and start the transition. This phone call is not our typical routine, you know, phone call, like we have the daily phone call. But we just wanted to kind of give you a heads up on some of the topics that are going on right now. Is that okay?

CINDY JONES: Yes.

JACK FOSTER: Okay. So have you got us on

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1 speaker phone?

2 CINDY JONES: Yes.

3 JACK FOSTER: Okay. Then we'll start.

4 MARIE MILLER: Hi, Cindy, it's Marie Miller.

5 CINDY JONES: Hi, Marie.

6 MARIE MILLER: Jack turned it over to me,
7 the re-entry guidance that was sent to him by Mike Norris
8 last night.

9 CINDY JONES: Right.

10 MARIE MILLER: And we're trying at our end
11 to work this with this harmonization group that the State
12 Department, the USA DART team, the Health Department
13 and the RSO that's here with the embassy. But we're,
14 we've put out some feelers for that.

15 But for us to be prepared to go into that
16 meeting, we're just curious as far as the priority this
17 has come in. Has this been something that was sent in
18 a preparatory way? So that if we were asked by the Japanese
19 Government or the State Department to have something,
20 that we have it? Or is there an actual request for this
21 right now?

22 CINDY JONES: This request is for you as
23 the NRC folks in Japan to provide comments on and get
24 back to us. I'll be sending it out to the inner agencies
25 here for comments, to get back by Sunday. I think we

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1 agreed on that.

2 MARIE MILLER: (Inaudible)

3 CINDY JONES: And it's in --

4 MARIE MILLER: (Inaudible) Unit 2, where
5 I know the, you know, your FDA, the U.S. --

6 CINDY JONES: But actually --

7 MARIE MILLER: -- (inaudible) and the
8 (inaudible)

9 JACK FOSTER: EPA.

10 MARIE MILLER: EPA.

11 CINDY JONES: Actually, Marie, I'm going

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JACK FOSTER: (b)(5)

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CINDY JONES: (b)(5)

JACK FOSTER: (b)(5)

CINDY JONES: (b)(5)

JACK FOSTER: -- (b)(5)

(b)(5)

CINDY JONES: Yes.

JACK FOSTER: Okay, okay. And I just, you

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1 know, just want to make sure we're not getting ahead
2 of, you know, personally I want to make sure we're not
3 getting ahead or ourself here at the embassy. So we're
4 trying to --

5 CINDY JONES: Well you have --

6 JACK FOSTER: -- we're trying to make sure
7 --

8 CINDY JONES: You have the document.

9 JACK FOSTER: -- that the right people
10 understand where (inaudible) with what we're doing.

11 CINDY JONES: You have the document in front
12 of you.

13 JACK FOSTER: That's why we asked the
14 question.

15 CINDY JONES: You have the document in front
16 of you, right, Jack? (b)(5)

17 (b)(5)
18 (b)(5) And
19 that's --

20 JACK FOSTER: Right. And I would assume
21 that the State Department was sort of aware of it. So
22 that's why --

23 CINDY JONES: Something to have in our back
24 pocket if it's needed.

25 JACK FOSTER: All right.

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1 MARIE MILLER: Okay. All right. So that's
2 the understanding. Because when we talked to some initial
3 State Department folks here they were unaware of that.
4 So this is just in preparation. Very good. So the bottom
5 line is that you would like to have this gelled by Sunday
6 night?

7 CINDY JONES: Well we would like to have
8 your comments, you in Japan. We thought maybe we would
9 get those back from you today. So that when we send
10 it out to the inner agency on our end, we'd have the
11 benefit of your comments. But if that's not going to
12 happen, what we'll do is, we'll just ask for everyone's
13 comments back to us by Sunday. That's what I'm going
14 to tell (b)(6)

15 JACK FOSTER: Okay. Do you have a eastern
16 standard time deadline that we could go on?

17 CINDY JONES: Whatever is convenient for
18 you.

19 JACK FOSTER: Okay. Because the time
20 difference here, you know, if we say Sunday that might
21 be, you know, a little bit later for you.

22 CINDY JONES: Well I guess the simple
23 question is, can you get us comments in a day and a half?

24 JACK FOSTER: Oh, yes.

25 MARIE MILLER: Okay, yes, we can do that.

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1 CINDY JONES: That's good enough.

2 MARIEMILLER: Okay? Allright. That's one
3 priority that we're working on. And then I'll turn it
4 over to Todd Jackson, who is here for this as well.

5 TODD JACKSON: Hi, Cindy, Todd Jackson.
6 And we heard from Dan Dorman that NISA has asked for
7 a meeting tomorrow. And we don't know what time yet.
8 But the focus is long term monitoring, that they're
9 going to be looking for questions, and I guess assurance
10 or input on whether they are complete in their plan for
11 long term monitoring.

12 CINDY JONES: Okay.

13 TODD JACKSON: So we were talking about
14 perhaps including DoE and Naval Reactors people, since
15 they would provide the resources to perform any assistance
16 or other monitoring. But that's just a meeting that
17 we know is going to happen tomorrow.

18 CINDY JONES: Okay. And just for your
19 awareness, in the United States the lead federal agency
20 for that, if we had that event here, would be CDC.

21 TODD JACKSON: Okay. Thanks, Cindy.

22 CINDY JONES: Sure.

23 TODD JACKSON: That's it.

24 JACK FOSTER: I'd like to also mention, one
25 of the things that we requested yesterday, I think when

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1 Randy's group was on board, that we get a, sort of a
2 (inaudible) occasionally of the things that you got,
3 you have on your task list. If you could PDF those and
4 send them to us that would be great.

5 And then secondly, if, I'm not sure, you
6 know. For the most part the things that have been coming
7 to Team Japan have been directed to me in reference to
8 the PMT issue. And so, you know, after tonight I will
9 no longer be here. So you may want to include Marie
10 Miller's name on that, and also Todd Jackson's, okay?

11 CINDY JONES: Will do. And it's just your
12 regular email address at NRC?

13 MARIE MILLER: Yes.

14 TODD JACKSON: Yes.

15 CINDY JONES: Okay.

16 JACK FOSTER: Okay? And --

17 MARIE MILLER: Anything for us?

18 JACK FOSTER: Is there anything that you
19 have for us?

20 CINDY JONES: About the NARAC stuff?

21 MICHELLE HART: Sure.

22 CINDY JONES: Yes.

23 MICHELLE HART: This is Michelle Hart. Hi,
24 how are you.

25 JACK FOSTER: Hi, Michelle. Thanks

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1 MICHELLE HART: We had a call earlier today
2 with DoE and NARAC. And right now NARAC is running an
3 intermediate phase relocation PAG calculation. We
4 believe it's with the plausible case.

5 JACK FOSTER: Yes.

6 MICHELLE HART: And so they're working
7 furiously on that right now. And they're going to present
8 the previous plausible case to the Japanese Government.
9 And I think you guys just talked about that.

10 There's going to also be the worst case super
11 core. There's going to be, there's an upper bound and
12 a lower bound. So they're doing that. So that's what
13 they're working on for us right now.

14 JACK FOSTER: Okay. And you guys --

15 CINDY JONES: And we --

16 JACK FOSTER: -- are running the plume model
17 on that?

18 MICHELLE HART: Yes. We provided the source
19 term for NARAC. NARAC runs the plume model. And when
20 we looked at the information we got in draft tonight,
21 it looks like they're trying to put together like three
22 plots, what it would look like, of estimated doses, thyroid
23 doses and whole body doses. And also three pages of
24 text. So it's about that length is what they're looking
25 at.

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1 JACK FOSTER: Okay. That's great, Michelle.
2 Could you, just so we stay kind of like in the loop
3 here, could send it to us just so we can take a look
4 at it? So we won't be blind sided by it. I know it's
5 draft probably, right?

6 CINDY JONES: Are you talking just the slide
7 presentation?

8 JACK FOSTER: Yes.

9 CINDY JONES: Yes, the slide presentation
10 we got, just so you know, we had some problems with it.
11 I mentioned to them, it has some words on there that
12 probably will, I know will not show up. Like the words
13 plausible realistic case will be probably changed to
14 hypothetical. But is has --

15 JACK FOSTER: This is not the NIT, the NIT
16 email --

17 CINDY JONES: No.

18 JACK FOSTER: -- that was sent out, gets
19 sent out every 12 hours, is it?

20 CINDY JONES: No. This was --

21 JACK FOSTER: Okay.

22 MICHELLE HART: This was from the NIT, but
23 it is a summary of the NARAC runs. The problem with
24 it is, if we send it to you there are some words in here
25 which are wrong.

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JACK FOSTER: And that's fine. I mean, I don't think that --

MICHELLE HART: It's things like that. But at least you get to see the plots. And that's the most important thing.

JACK FOSTER: Exactly, Michelle. We appreciate that.

MARIE MILLER: And, Michelle, you said that they're working on it furiously. So what, you have something? But then there's something else they're working on?

MICHELLE HART: Yes, there's two things they're working on right now. One is that slide presentation for the short term thyroid and whole body doses that we were just talking about, and then to present to the Japanese Government.

And then the other thing that they're working on is an intermediate phase calculation so that the calculation goes out further in time. And it's looking at relocation PAGs.

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1 JACK FOSTER: And I imagine this all kind
2 of fits into the harmonization effort that we have going
3 on with the embassy.

4 MICHELLE HART: Right.

5 MARIE MILLER: So what you're saying is that
6 what you would send to us that has some errors, that's
7 basically early draft, but they're continuing to refine
8 that?

9 MICHELLE HART: That's correct. They're
10 not recalculating anything for those slides. They're
11 just refining how to present that information.

12 MARIE MILLER: It's the format, okay.

13 MICHELLE HART: So that is not the
14 intermediate phase relocation, is not on that presentation.
15 It's just early phase thyroid and whole body.

16 MARIE MILLER: Okay, and that's, and then
17 too, it's the latter with respect to intermediate phases
18 they're still working on. And that's what they're getting
19 ready to also present?

20 MICHELLE HART: I don't believe they will
21 be presenting the intermediate phase at all. What we're
22 saying is the only thing that will be presented will
23 be this early phase.

24 MARIE MILLER: Only the early phase, okay.

25 JACK FOSTER: Is there any information

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1 included in that about the source term or plant, possibly
2 the plant conditions? You said worst case or plausible
3 scenario. I'm just wondering if there's any description
4 of the assumptions that go into the calculations.

5 MICHELLE HART: They were talking about
6 appending those as a text file to the email. So the
7 Japanese Government would see that. But it would be
8 a much shortened form. It would be like three pages.

9 JACK FOSTER: Okay.

10 MICHELLE HART: And it's important to note
11 that the presentation of this will say it's not what
12 we believe to be there. But it's just our estimate of
13 a hypothetical situation, since we don't know what's
14 there.

15 JACK FOSTER: Okay, yes. Send it to all
16 three of us. I'm not sure of the connectivity that Marie
17 and Todd will have today. But I'll be connected until
18 later tonight. Okay?

19 MICHELLE HART: But, Jack, you're always
20 connected.

21 JACK FOSTER: Ah, that. I needed that.
22 Thanks.

23 MICHELLE HART: No problem.

24 MARIE MILLER: And then when he unplugs I'll
25 take his socket here.

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1 MICHELLE HART: Absolutely.

2 JACK FOSTER: Is there anything else from
3 PMT headquarters?

4 CINDY JONES: No.

5 JACK FOSTER: Okay.

6 CINDY JONES: So will you plan on calling
7 in at this time every night? Do we have a call set up?

8 JACK FOSTER: We do not. We actually have
9 a standing call, I'm not, I think the liaison team put
10 it together. And that's at four o'clock our time, which
11 is three o'clock your time. Four o'clock in the afternoon
12 our time, which is kind of out of phase with some of
13 the work that's being done.

14 But that being said, if you want us to call
15 you, you know, at ten o'clock, say ten o'clock every
16 morning our time, I don't think that's a bad idea either,
17 you know, to have two calls. Because that's when we
18 first, you know, we've had a couple of hours to kind
19 of like percolate on some of the ideas that you've given
20 us.

21 And maybe also you've had time to digest
22 some of the things that we've passed along to you. So
23 do you want to do that? We'll have one at ten and four.
24 It doesn't have to be that long.

25 But at least we can do a quick turnover on

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1 what's going on. And I don't know if you can establish
2 that at the PMT side, or if we can just make sure we
3 do it here, sort of on an ad hoc basis at ten and four.

4 CINDY JONES: But --

5 JACK FOSTER: And that would be, ten and
6 four would be 3:00 a.m. eastern, ten, 9:00 p.m.

7 CINDY JONES: Yes. So 10:00 and 4:00 your
8 time.

9 JACK FOSTER: Yes, yes.

10 CINDY JONES: And our prospective times
11 here.

12 JACK FOSTER: Is that okay? I mean, I think
13 that's enough time spread to where it give us a chance
14 to actually do something with the information we have.

15 CINDY JONES: It sounds good. And you know
16 you have our PMT email address. You'll get that when
17 you get the information. So if something comes up and
18 you're busy, no problem.

19 JACK FOSTER: We'll just let you know.

20 CINDY JONES: Yes.

21 JACK FOSTER: So if you do get a chance to
22 PDF your taskings, you know, if you're capable, have
23 the capability of doing that, send that to us too, okay.

24 CINDY JONES: Will do.

25 JACK FOSTER: The main reason is we just

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1 want to know, we'll keep that in the back of our minds
2 during our conversations with our counterparts. So if
3 there's information we can gather in support of your
4 efforts, we can do that, you know, without you having
5 to ask us.

6 CINDY JONES: No, we'll do that.

7 JACK FOSTER: Okay.

8 CINDY JONES: Well, we'll have, we'll remind
9 the next team to do that.

10 JACK FOSTER: Well we'll talk to you later.
11 We'll be connected. If you need anything just let us
12 know.

13 CINDY JONES: Okay.

14 MARIE MILLER: Okay, thank you.

15 CINDY JONES: Thanks very much.
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(CONFERENCE CALL INITIATED)

GREG: Hello, Greg, may I help you?

TERRY REIS: Yes, hi, this is Terry Reis,
Protective Measures Team Director at the NRC. Is Dave
Bowman (phonetic) available?

GREG: Ah, hold on, let me pass you back
there.

TERRY REIS: Thank you.

GREG: Okay, Terry, go ahead. You got Don
Nittop (phonetic).

TERRY REIS: Hey, Nittop! Hi, this is Terry
Reis. I'm the Protective Measures Team Director here
at the NRC on this shift.

DON NITTOP: (indiscernible, possibly "Say
again?")

TERRY REIS: We're just hoping maybe you
can shed some light on, at 10:22 a.m. this morning we
were sent a NARAC run of the Tokyo super core. Do you
have an understanding of what the purpose of that is
and who asked for it?

DON NITTOP: Which email you referring to?
The 10?

TERRY REIS: 10:22 a.m. Mid-OPS (phonetic)
sent it to us.

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1 DON NITTOP: Ah, yes. Let me ask a quick
2 question and I'll, hang on just a moment.

3 TERRY REIS: All right.
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(CONFERENCE CALL INITIATED)

TERRY REIS: Can you create a task for this?

BOBBY ITO: Right, the super core one?

TERRY REIS: No, this is something new.

This guy is very high up in the White House and he wants to know is, okay, --

MALE PARTICIPANT: (indiscernible, possibly "The weather one's out, this is what you just sent out.")

BOBBY ITO: Okay.

TERRY REIS: Bobby?

BOBBY ITO: Yes.

TERRY REIS: Okay, this is important.

BOBBY ITO: Okay.

TERRY REIS: All right. You want --

DAVID BOWMAN: Hello, this is David Bowman.

TERRY REIS: Hey, David, this Terry Reis, PMT Director here at the NRC on this shift.

DAVID BOWMAN: Yes.

TERRY REIS: I'm trying to wrap my head around, do you have an understanding of what the purpose of this super core NARAC report that we received this morning is?

DAVID BOWMAN: Yes. We were directed by

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(b)(5)

TERRY REIS:

(b)(5)

DAVID BOWMAN:

(b)(5)

TERRY REIS:

(b)(5)

DAVID BOWMAN:

(b)(5)

(b)(5)

TERRY REIS:

(b)(5)

DAVID BOWMAN:

(b)(5)

TERRY REIS:

(b)(5)

DAVID BOWMAN:

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TERRY REIS:

(b)(5)

(b)(5)

MALE PARTICIPANT:

(b)(5)

(b)(5)

TERRY REIS:

(b)(5)

MALE PARTICIPANT:

(b)(5)

(b)(5)

DAVID BOWMAN: That's correct.

TERRY REIS: Right. Yes, I understand that.

DAVID BOWMAN: Okay.

TERRY REIS: Okay. Now we just got a new

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1 tasker from, just wanted to share this with you since
2 you're on the phone, (b)(6) just asked, on behalf
3 of (b)(6) (phonetic), for us to break down the
4 other NARAC run, the plausible scenario one, the one
5 that was 70 percent Unit 1, 33 percent Units 2 and 3.

6 DAVID BOWMAN: Yes.

7 TERRY REIS: To break that down by unit.
8 So we just got it. We'll be working on that. We may
9 need your help, okay?

10 DAVID BOWMAN: All right.

11 TERRY REIS: All right, thanks Sir.

12 DAVID BOWMAN: All right, bye.
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(CONFERENCE CALL INITIATED)

TERRYREIS: TerryReis, Protective Measures
Team.

HOWIE CROUCH: Terry, Howie Crouch in the
OPS Center, recorded line. I got an email that Tony
was looking for from Oakridge.

TERRY REIS: Okay.

HOWIE CROUCH: Where do I need send it?

MALE PARTICIPANT: PMT02.

TERRY REIS: PMT02.

HOWIE CROUCH: Copied PMT02, I'll send it
right now.

TERRY REIS: And CC PMT12.

HOWIE CROUCH: All right, copy CC PMT12.

TERRY REIS: Thank you, sir.

HOWIE CROUCH: All right.

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(CONFERENCE CALL INITIATED)

OPERATOR: Hello, this is the Operations Center, recorded line, may I help you?

TERRY REIS: Hi, this is the PMT. Can you call the home of Bruce Watson?

OPERATOR: Bruce Watson?

TERRY REIS: Yes.

OPERATOR: Okay, hold on, and you want me to transfer you to him?

TERRY REIS: Please.

OPERATOR: All right, hold on. All right, you want me to try his home or his Blackberry first?

TERRY REIS: His home.

MALE PARTICIPANT: All right, I'll try his home.

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(CONFERENCE CALL INITIATED)

OPERATOR: And I'm going to connect you

(b)(6) is getting him.

TERRY REIS: Thank you.

BRUCE: Hello?

TERRY REIS: Hey, Bruce?

BRUCE: Yes.

TERRY REIS: Hey, it's Terry and the team
here. Hey we got some direction from the White House

(b)(5)

BRUCE: Uh-huh, okay.

TONY: Okay, (b)(5)

(b)(5)

BRUCE: Right.

TONY: And then earlier, there was an email
sent to --

BRUCE: Right.

TONY: -- (b)(5)

(b)(5)

BRUCE: Right, and --

TONY: (b)(5)

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1 yesterday morning at 11 something.

2 BRUCE: Right.

3 TONY: Sorry, it was Thursday evening they
4 sent an email. (b)(5)

5 (b)(5)

6 BRUCE: Yes.

7 TONY: (b)(5)

8 (b)(5)

9 BRUCE: Yes.

10 TONY: It's an attachment to their email.

11 BRUCE: Right.

12 TONY: We said, you know, (b)(5)

13 (b)(5)

14 BRUCE: (b)(5)

15 TONY: -- (b)(5)

16 (b)(5)

17 BRUCE: Right.

18 TONY: (b)(5)

19 (b)(5)

22 BRUCE: Yes, what they did, and just so you

23 know, Tony, (b)(5)

24 (b)(5)

25 TONY: Right.

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1 BRUCE: -- so that's all, (b)(5)

2 (b)(5)

4 TONY: Yes.

5 BRUCE: (b)(5)

6 (b)(5)

7 TONY: Yes.

8 BRUCE: Okay, and so they took
9 (indiscernible, possibly "some of them.")

10 TONY: Right.

11 BRUCE: What they did, (b)(5)

12 (b)(5)

14 TONY: Right.

15 BRUCE: (b)(5)

16 (b)(5)

18 TONY: Yes.

19 BRUCE: (b)(5)

20 (b)(5)

(b)
(5)

22 TONY: Right.

23 BRUCE: (b)(5)

24 (b)(5)

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1 (b)(5)

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6 TONY: Yes.

7 BRUCE: (b)(5)

8 (b)(5)

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13 TONY: Right.

14 BRUCE: Okay? (b)(5)

15 (b)(5)

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18 TONY: Yes.

19 BRUCE: (b)(5)

20 (b)(5)

21 Okay?

22 TONY: Yes.

23 BRUCE: (b)(5)

24 (b)(5)

25

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1 (b)(5)
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4 TONY: Right, right.

5 BRUCE: (b)(5)
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7 (b)(5)
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14 (b)(5)

Okay?

15 TONY: Okay, well this --

16 BRUCE: Maybe it's what we wrote up in our
17 key points messages back to the ET yesterday that Michelle
18 presented?

19 BOBBY ITO: Bruce, but I have a question.

20 (b)(5)
21
22

23 (CROSSTALK)

24 BOBBY ITO:

(b)(5)

25 (b)(5)

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1 (b)(5)

2 (b)(5)

3 BRUCE:

4 (b)(5)

5 (b)(5)

6 (b)(5)

7 (b)(5)

8 BOBBY ITO:

9 (b)(5)

10 (b)(5)

11 BRUCE: Well,

12 (b)(5)

13 (b)(5)

14 (b)(5)

15 (b)(5)

16 (b)(5)

17 TONY: I mean,

18 (b)(5)

19 (b)(5)

20 (b)(5)

21 (b)(5)

22 BRUCE: Right,

23 (b)(5)

24 (b)(5)

25 TONY: Right, and --

BRUCE: (b)(5)

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(b)(5)

TONY: Right.

BRUCE: And --

TONY: (b)(5)

(b)(5)

BRUCE: Yes.

TONY: -- (b)(5)

(b)(5)

BRUCE: (Indiscernible, possibly "Per
Unit?"

TONY: (b)(5)

(b)(5)

BRUCE: Okay, (b)(5)

(b)(5)

TONY: Well, (b)(5)

(b)(5)

BRUCE: Yes.

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1 TONY: (b)(5)

2 BRUCE: Okay.

3 TONY: (b)(5)

4 (b)(5)

5 BRUCE: Right.

6 TONY: So --

7 TERRY REIS: (b)(5)

8 (b)(5)

9 TONY: Is that okay, Bruce?

10 BRUCE: Well, (b)(5)

11 (b)(5) -

12 TONY: .

13 BRUCE: -- (b)(5)

14 (b)(5) --

15 TONY: (b)(5)

16 TERRY REIS: There you go.

17 BRUCE: (b)(5)

18 (b)(5)

19 TERRY REIS: Okay.

20 TONY: Okay, let's do that.

21 BRUCE: Okay?

22 TONY: Got it.

23 TERRY REIS: Thanks Bruce.

24 BRUCE: Okay? I'll be around.

25 TERRY REIS: Good, thanks.

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1 TONY: Thank you.

2 BRUCE: Okay, all right, bye.

3 TONY: Yes, then it doesn't matter.

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(CONFERENCE CALL INITIATED)

BOBBY ITO: PMT. Hello, this is the Protective Measures Team, who else is up here? Hello?

CHUCK MCDERMOTT: Hi, this is Chuck McDermott (phonetic), I'm the Emergency Director in the Canadian Nuclear Safety Commission Emergency Operations Center.

BOBBY ITO: Yes, this is Bobby Ito. I'm the Director of the PMT NRC Ops Center. Hello?

CHUCK MCDERMOTT: Hello.

BOBBY ITO: Yes?

CHUCK MCDERMOTT: I thought we were having a conference call, so I was just saying hello.

BOBBY ITO: Yes, thank you, one.

(CROSSTALK)

BOBBY ITO: Okay, is there information we can exchange, or?

SERGEANT MAJOR OF THE ARMY: It's Sergeant Major of the Army here, no, we don't have anything to pass on.

BOBBY ITO: Okay. And the same thing in our case, there is nothing significant so far.

SERGEANT MAJOR OF THE ARMY: Okay, then why don't we terminate the conference call?

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1 BOBBY ITO: Okay, thank you.

2 SERGEANT MAJOR OF THE ARMY: Thank you, bye.

3 BOBBY ITO: Bye.

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(CONFERENCE CALL INITIATED)

TERRY REIS: PMT, Terry Reis.

MIKE MCBREARTY: Hey, Terry, this is Mike McBrearty. I work with Nuclear Regulatory Affairs out in San Onofre Nuclear Generating Station.

TERRY REIS: Okay.

MIKE MCBREARTY: And we've been making daily reports of our air samples.

TERRY REIS: Yes.

MIKE MCBREARTY: And I wanted to report something today, this was actually found in a sample of rain water that had collected into a bermed area.

TERRY REIS: Okay.

MIKE MCBREARTY: So this was in our bermed area around the hydraulic skids for our feed water isolation valves. They had vacuumed rain water out of that berm and when they analyzed it, measured a range of 9.1 to 9.6 E-8 microcuries per millileter of Iodine 131.

TERRY REIS: Okay. Yeah, we've seen that. It's not, we've seen higher.

MIKE MCBREARTY: Okay.

TERRY REIS: But thank you.

MIKE MCBREARTY: I wanted to make sure it

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1 was clear that --

2 TERRY REIS: Okay, help me understand where
3 it is again. It's a berm where?

4 MIKE MCBREARTY: It's a bermed area around
5 our feed water isolation valve, there's a hydraulic skid
6 in that area.

7 TERRY REIS: Okay, would you possibly mind,
8 would you mind sending us an email, just stating what
9 you just told us?

10 MIKE MCBREARTY: No, no, I can do that.

11 TERRY REIS: Okay, just send it to, what
12 is it?

13 MALE PARTICIPANT: The HOO.

14 MIKE MCBREARTY: And what's that address?

15 MALE PARTICIPANT: It's HOO@NRC.gov.

16 TERRY REIS: Yes, H-O-O @NRC.com.

17 MALE PARTICIPANT: .gov.

18 MIKE MCBREARTY: .gov.

19 TERRY REIS: .gov.

20 MIKE MCBREARTY: They gave me an email
21 earlier in the week, unfortunately I don't have it with
22 me, but it was like a PMT12?

23 (CROSSTALK)

24 MALE PARTICIPANT: Yes, send it to the
25 directory and just ask them to forward it to PMT12.

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1 TERRY REIS: Tell them to forward it to the
2 PMT and they'll get it to us.

3 MIKE MCBREARTY: Okay, now I also want to
4 report, and this is a similar situation that occurred
5 on Wednesday of this week, which would have been the
6 23rd.

7 TERRY REIS: Okay.

8 MIKE MCBREARTY: In this case, it was an
9 acid berm near a full flow condensate pump.

10 TERRY REIS: Okay.

11 MIKE MCBREARTY: They, again, were vacuuming
12 that bermed area out and when they did some sampling,
13 they saw 5 E-8 micro curies per CC Iodine 131.

14 TERRY REIS: Okay.

15 MIKE MCBREARTY: So I'll put both of them
16 in the email that I send to you.

17 TERRY REIS: Well thank you, we appreciate
18 your reporting it.

19 MIKE MCBREARTY: Okay, and we did, I did
20 contact our resident and also gave that information to
21 him.

22 TERRY REIS: Okay. Thanks much.

23 MIKE MCBREARTY: Okay, Terry, I'll probably
24 be talking to you again once we get air sample results.

25 TERRY REIS: Okay.

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1 MIKE MCBREARTY: Thanks.

2 TERRY REIS: Thank you.

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(CONFERENCE CALL INITIATED)

CINDY JONES: Cindy Jones, PMT.

ED TUPIN: Hey, Cindy, it's Ed Tupin.

CINDY JONES: Hey, Ed, how are you?

ED TUPIN: Good, how are you doing?

CINDY JONES: Okay.

ED TUPIN: Good. Hey I wanted to get back to you on this cargo clearance business, because it's turned into a messier situation than it appeared at first glance. Turns out it's not totally a technical problem. It's a technical and a political problem.

CINDY JONES: I understand that. We've been working on it for, what, 15 years.

ED TUPIN: Yes, and I don't think we're solving that problem today and that's the issue, is it --

CINDY JONES: Understand, yes.

ED TUPIN: (b)(5)

(b)(5)

CINDY JONES: (b)(5)

(b)(5)

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1 (b)(5)

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ED TUPIN:

(b)(5)

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(b)(5)

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CINDY JONES: What is it? Can you at least
7 send it and we can say it's draft?

8

ED TUPIN:

(b)(5)

9

(b)(5)

10

11

CINDY JONES: Are you going to tell

(b)(6)

12

it's not final then?

13

ED TUPIN:

(b)(6)

been told.

14

CINDY JONES: Ah.

15

ED TUPIN: And she's been told why.

16

CINDY JONES: So what are we supposed to
17 help with the people that are on the ground that need
18 help today?

19

ED TUPIN: Well, there's a couple of
20 different groups that need help on the ground. I suspect
21 if your Air Force guy is really, you know, a true CBRNE
22 that knows his RAD at all, they've got the equipment
23 to meet the DoT regulations, the same as your shipping
24 regulations.

25

CINDY JONES: Yes.

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1 ED TUPIN: If you ship anything.

2 CINDY JONES: And can you send that to us
3 so we can at least forward that to them?

4 ED TUPIN: 149 CFR, 173 et cetera. You know,
5 it's the same old stuff you got in your transportation
6 of radioactive packages.

7 CINDY JONES: There's no, yes, (b)(5)

8 (b)(5)

9 (b)(5)

Can they

10 release it or not? I mean, normally the states release
11 it up to five times background.

12 ED TUPIN: Well, DoT --

13 CINDY JONES: (b)(5)

14 (b)(5)

15 ED TUPIN: Well, DoT says that if it comes
16 into this country to be put in transport, it must meet
17 their regulations.

18 CINDY JONES: It's not in this country, it's
19 in Japan.

20 ED TUPIN: Well, okay, (b)(5)

21 (b)(5)

22 (b)(5)

I believe has been, is that stuff on territory
23 controlled by the U.S. oversees for U.S. citizen use,
24 meets U.S. regulations.

25 CINDY JONES: Right.

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1 ED TUPIN: So --

2 CINDY JONES: So what's your short answer
3 to this fellow, since it's --

4 ED TUPIN: If he's planning on shipping it
5 to the U.S., it's got to meet, I mean, the position
6 that DoT is taking with us right now, and there's some
7 political workings to try and get them to rethink this,
8 is that it's got to meet DoT shipping regs if their going
9 to ship it to the U.S.

10 And by extension of what I just said earlier,
11 it would be applicable to stuff that their using over
12 there with, you know, removable contamination.

13 CINDY JONES: So is it like Reg Guide 1.86
14 limits? Since it's been about 15 years since I've done
15 transportation stuff?

16 ED TUPIN: Well, they redid it into, it's
17 a little more nuanced than that. It's similar to Reg
18 Guide 1.86, but it's not exactly Reg Guide 1.86. It's
19 DoT regulations, which are in 49 CFR, 173, and the NRC
20 has some equivalent regs.

21 CINDY JONES: Yes.

22 ED TUPIN: And it's also in the IAEA TSR1.

23 CINDY JONES: Right.

24 ED TUPIN: And anybody can download IAEA
25 TSR1 from the IAEA website.

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1 CINDY JONES: So that's the official answer?

2 ED TUPIN: (b)(5)

3 (b)(5)

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7 CINDY JONES: Sure, sure.

8 ED TUPIN: (b)(5)

9 (b)(5)

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11 CINDY JONES: I know.

12 ED TUPIN: (b)(5)

13 (b)(5)

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(CONFERENCE CALL INITIATED)

ED TUPIN: So one says, you know, DoT's position is well, we've had our regulations out there. You should have bought something that was adequate to meet our limits, because you're allowing something in transportation that used to meet our limits.

And Customs is saying, but we've got all these instruments and we've got to get this stuff through and we can't, and nobody wants to deal with the resulting stuff that doesn't make it.

CINDY JONES: Right.

ED TUPIN: And they've tried to foist that one off on EPA, you know, oh it's an EPA problem. No, it doesn't meet any of the circle definitions for contaminated stuff. And most of the time it doesn't meet yours. Now some of these might meet your criteria for illegal import of material that should be licensed.

CINDY JONES: Okay, so what's happening with the next step? What did (b)(6) say?

ED TUPIN: Don't know, we haven't heard back from (b)(6)

CINDY JONES: Oh, so you just got back to her today?

ED TUPIN: Yes, because --

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1 CINDY JONES: Okay.

2 ED TUPIN: -- we've been through umpteen
3 drafts of this thing. We're through like our seventh
4 draft. Every time we think we're close to consensus,
5 somebody says no, that won't, we can't do that.

6 CINDY JONES: Well, I'll tell you what Ed,
7 when you get it close to that or when you think you have
8 something, can you send it on to us on that email address
9 you got from us?

10 ED TUPIN: Sure. I've had it, I've been
11 close to it a number of times. And every time I go for
12 getting buy-off from everybody, I get major halt signs.

13 CINDY JONES: I bet. I'm sorry for that.

14 ED TUPIN: Yes, so because of this political
15 conundrum.

16 CINDY JONES: Yes.

17 ED TUPIN: I mean, it's the same issue of,
18 you know, you guys and us over what's the appropriate
19 level for letting the site loose.

20 CINDY JONES: Right, right.

21 ED TUPIN: You know, it's another variation
22 on that theme.

23 CINDY JONES: Yes.

24 ED TUPIN: Not exactly the same story, but.

25 CINDY JONES: Well, at least we, but you

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1 know, we worked that out through optimization, so.

2 ED TUPIN: You're right.

3 CINDY JONES: Yes, we just don't have a
4 licensee in this case.

5 ED TUPIN: Yes, I got to say, yes, right.
6 That's why I say, there's no party to be held responsible
7 in this right now is the problem. One of the many problems.

8 CINDY JONES: Understand. Okie doke, well
9 --

10 ED TUPIN: But, you know, if you want to
11 get back to your guy in Japan, he should have adequate
12 equipment, I mean, to be able to meet the DoT, because
13 they've got pancake survey meters that can see down to
14 the counts per minute. They should be easily able to
15 see numbers low enough and they just need their folks
16 that do their techno work for them to give them the right
17 numbers.

18 CINDY JONES: Well, I don't know his
19 situation, but --

20 ED TUPIN: Well, I'm just saying, he says
21 he's a CBRNE officer.

22 CINDY JONES: Right, right.

23 ED TUPIN: I mean, so that's chem, bio, rad,
24 nuke.

25 CINDY JONES: Understand, but I talked to

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1 Maryland EOC yesterday and he didn't understand radiation
2 terms and said he was an emergency responder. A responder
3 that was responsible for radiation issues, so.

4 ED TUPIN: Maryland? The bottom of the email
5 you just sent me had Yamagata, Japan?

6 CINDY JONES: I understand. This is a
7 different call we had.

8 ED TUPIN: A different --

9 CINDY JONES: So just because they're a CBRN
10 doesn't mean they really understand everything about,
11 he may be a chem person that also has responsibility
12 for RAD, nuke.

13 ED TUPIN: Well, tell him then, I mean, if
14 he's going to claim RN experience, then he either needs
15 to get it or find it.

16 CINDY JONES: Understand, we're just trying
17 to help him out.

18 ED TUPIN: Yes, no, I know, I'm just saying,
19 is it --

20 CINDY JONES: Well, I'll tell you what, why
21 don't you, if can include us on a draft, or at least
22 provide us a document that says draft, that would be
23 nice to have and say it's being worked with the inner
24 agency.

25 ED TUPIN: Yes, a couple of people were on

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1 a call that discussed it the other day from the NRC.
2 Without going back to the notes I couldn't tell you who
3 they were, but they were --

4 CINDY JONES: It probably was our liaison
5 team folks. They have a liaison with EPA and the other
6 federal agencies.

7 ED TUPIN: It might have been.
8 (indiscernible, possibly "DETH") might have been DETH
9 or might have been somebody that's sitting at that same
10 desk.

11 CINDY JONES: Right, right. Did you send
12 it on to them before?

13 ED TUPIN: Yes, they've seen a couple of
14 other drafts.

15 CINDY JONES: Okay.

16 ED TUPIN: So you might check with your LIA11
17 mailbox.

18 CINDY JONES: Okay, will do.

19 ED TUPIN: But they've seen some drafts,
20 significant drafts, number of drafts, but don't take
21 any of them to the bank.

22 CINDY JONES: I got you.

23 ED TUPIN: All right.

24 CINDY JONES: Thanks very much, Ed,
25 appreciate it.

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1 ED TUPIN: All right.

2 CINDY JONES: Good luck.

3 ED TUPIN: Yes.

4 CINDY JONES: Okay, huh-bye.

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(CONFERENCE CALL INITIATED)

OPERATOR: NRC Operations on a recorded line.

May I help you?

FEMALE PARTICIPANT: Yes, this is PMT.
Could you get Lew Brandon on the line for us please?

OPERATOR: At home?

FEMALE PARTICIPANT: Yes, sir.

OPERATOR: Let me try --

FEMALE PARTICIPANT: Oh, they have? Oh,
they're already calling?

OPERATOR: Already got him on the phone,
we're going to transfer you back.

FEMALE PARTICIPANT: All right, he's being
transferred back.

OPERATOR: Yes.

FEMALE PARTICIPANT: Thank you.

MALE PARTICIPANT: He's right here.

FEMALE PARTICIPANT: Okay, they put him on
there? That's okay. You got him?

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(CONFERENCE CALL INITIATED)

PMT: U.S. NRC PMT.

HOWIE CROUCH: Hey, this is Howie Crouch,
Headquarters OP. I got an email I need to forward to
you from Brian Sheron. What's the best one? PMT02?

PMT: PMT12.

HOWIE CROUCH: PMT12. I'll send it right
back.

PMT: All right, thanks.

HOWIE CROUCH: Goodbye.

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

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

Docket Number: N/A

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Work Order No.: NRC-4222

Pages 1-13

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

6 + + + + +

7 SUNDAY,
8 MARCH 27, 2011

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CHRIS LUI: PMT.

HEADQUARTERS OPERATIONS OFFICER: Hi, I've got Marie Miller of the Japan team.

CHRIS LUI: Okay.

HEADQUARTERS OPERATIONS OFFICER: I'll connect her through.

CHRIS LUI: All right. Thank you.

MARIE MILLER: Hello, is this Cindy?

CHRIS LUI: No, this is Chris Lui. Hi, Marie, how are you doing?

MARIE MILLER: Oh, hi, Cris. How are you doing?

CHRIS LUI: All right. Are you, when did you get there?

MARIE MILLER: We left on Thursday, arrived on Friday.

CHRIS LUI: Okay. All right. I thought you're really tired.

MARIE MILLER: I know. We're doing pretty good.

CHRIS LUI: Okay.

MARIE MILLER: Let's see, I'm going to put you on -- We don't have much to report, you know, from

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1 last night's activities. The main issue from yesterday
2 was with respect to the, those projections being shared.

3 And so, but we don't have a final copy of
4 that. We had gotten a draft copy. I don't know if it's
5 possible to, you know, for us to have a copy once it's,
6 you know, been, you know, officially, you know, released.

7 My understanding is the next step that would
8 be shared with the Ambassador, and then with the Government
9 of Japan. And then, you know, so if we could just get
10 a copy at that time, that would be great.

11 CHRIS LUI: Okay, Marie, things are -- I
12 have Jean Harris (phonetic) and Leroy Hardin here. We're
13 all new to a shift. So I'm not quite sure what those
14 projection you're talking about.

15 MARIE MILLER: Oh, okay. That's the one
16 that was the, where you -- From your turnover they should
17 have discussed -- Because there was a lot of activity
18 yesterday with the, actually with the ET on it. So it
19 was --

20 CHRIS LUI: Is it the OSTP question?

21 MARIE MILLER: Yes, yes.

22 CHRIS LUI: Okay. All right. Okay. We can
23 definitely forward you that particular correspondence.

24 MARIE MILLER: Okay. That would be good.

25 CHRIS LUI: Okay.

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1 MARIE MILLER: And then, and the other is
2 that we had a major meeting with several Government of
3 Japan ministries, and headed up by the Deputy Chief of
4 Staff within the Cabinet, looking for long term
5 cooperation.

6 And in a number of areas with respect to
7 environmental assessment, stakeholder involvement, and
8 on the KI distribution and communications. And that
9 was brought up at the Cabinet level meeting last night.

10 That would have been Sunday night, 8 o'clock.

11 And the, that will be headed up by, for the
12 United States, Dr. Calleman with NIH, who's supporting
13 the health aspect. And there's going to be a meeting
14 tomorrow, on Tuesday. Where they'll break --

15 That will be a steering committee meeting
16 that will determine what resources, you know, the U.S.
17 Government can provide to support that. So we're at,
18 from an NRC standpoint, we'll be in a monitoring mode
19 for that activity. So we plan to support that meeting
20 tomorrow, on Tuesday.

21 CHRIS LUI: Okay.

22 MARIE MILLER: Okay?

23 CHRIS LUI: And there were any particular
24 actions, you know, request of NRC, then you will let
25 us know?

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1 MARIE MILLER: Right. We will be
2 anticipating that there will be requests from that.
3 And of course, we won't make any commitments. But that's
4 just a heads up. We will be seeing that.

5 CHRIS LUI: Okay.

6 MARIE MILLER: And then the next activity
7 for today is, we're meeting with NISA to discuss --
8 They're interested in what procedures and documents that
9 we have with respect to moving to the intermediate and
10 recovery phases. So we have all those resources. And
11 with Brooke and OIP, we'll be supporting that meeting
12 today. And that's at 2:30 p.m. our time.

13 CHRIS LUI: Okay.

14 MARIE MILLER: Okay. Anything for us?

15 CHRIS LUI: Yes. There was a question I
16 think that was raised by Charles Casto yesterday, with
17 the ET.

18 MARIE MILLER: Well Chuck's right here if
19 you go ahead.

20 CHRIS LUI: Okay, okay. Indicating that,
21 I mean, there were questions about shielding.

22 MARIE MILLER: About what?

23 CHRIS LUI: About shielding.

24 MARIE MILLER: About shielding, yes.

25 CHRIS LUI: Yes. So I was wondering, I mean,

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1 what particular situation are we looking at? Because
2 without understanding, for example, what kind of tasks
3 to be accomplished by the workers, and also the environment
4 that they were going to go into, there are a lot of different
5 possibilities.

6 But we didn't really want to send you on
7 a wild goose chase there. So whatever information you
8 have will help us to better define the situation, and
9 it would be helpful. People are still looking for
10 assistance in those areas.

11 MARIE MILLER: Well there's actual meetings
12 on shielding that are going on today. So that's going
13 to be at 1400. Mike Scott is heading that effort. So
14 I'll ask for him to give us a debrief, and then to try
15 to give you that. But I don't have anything specific.

16 CHRIS LUI: Okay.

17 MARIE MILLER: One of the next areas that
18 we're going to be involved with DoE is to just try to
19 get an idea of -- There are different data coming in.
20 There's so many different sources. And so we're just
21 going to try to get --

22 Our goal today is to try to get a summary
23 of understanding what the data that they have. Because
24 in addition to, you know, what DoE's doing, there's also
25 a lot of, if you will, local Government monitoring and

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1 data.

2 And what they're doing to collect that and
3 use that. To what extent they're using that. So that's
4 just something that we're going to try to have a better
5 understanding, and report out to you guys on that.

6 CHRIS LUI: Okay. All right. And one thing
7 that I just wanted you to be aware of, that we have gotten
8 a request.

9 MARIE MILLER: Okay.

10 CHRIS LUI: Well actually, we have gotten
11 several questions, really detailed questions from the
12 Embassy of Japan here in Washington, D.C. I think it's
13 from their chief scientist.

14 MARIE MILLER: Okay.

15 CHRIS LUI: And he's really asking us the
16 basis of the dose projections that we published with
17 our press release on March 16th, okay.

18 MARIE MILLER: Okay. One more time? The
19 phone was ringing here. So there was a dose projection
20 put out on March 16th, okay.

21 CHRIS LUI: Right, right. That was attached
22 to the press release on March 16th.

23 MARIE MILLER: Yes.

24 CHRIS LUI: Okay?

25 MARIE MILLER: Okay. I'm familiar with

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1 that.

2 CHRIS LUI: Right. So the Embassy of Japan
3 here, one of their chief scientists is asking a lot of
4 detailed questions about the dose calculations that,
5 I mean, the assumptions of the dose calculations that
6 we have done here.

7 MARIE MILLER: Okay.

8 CHRIS LUI: Okay? Right now we are looking
9 through whether we have, I mean, if we have -- The basis
10 have already been up and been vetted, that we can provide.

11 MARIE MILLER: Okay.

12 CHRIS LUI: And I just wanted you to be aware
13 that we are in the process of thinking about how we want
14 to respond. But we have not responded yet.

15 MARIE MILLER: Okay.

16 CHRIS LUI: Okay?

17 MARIE MILLER: Okay, I understand.

18 CHRIS LUI: Okay?

19 MARIE MILLER: That's a good heads up.

20 CHRIS LUI: Right. And apparently that he
21 was talking about potential discussion on Japanese diet.

22 CHRIS LUI: I'm sorry, go ahead. Japanese
23 --

24 CHRIS LUI: Yes, he's --

25 MARIE MILLER: There's a lot of noise. I'm

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1 sorry.

2 CHRIS LUI: That's all right.

3 MARIE MILLER: Could you just repeat that
4 sentence?

5 CHRIS LUI: Okay. Yes, I think that in this
6 email he's -- The reason that he's asking all those
7 questions is because I think the Japanese Government
8 is trying to understand that better.

9 MARIE MILLER: Okay.

10 CHRIS LUI: Okay?

11 MARIE MILLER: All right. So the Ambassador
12 in the United States is asking that question because
13 --

14 CHRIS LUI: Chief staff, chief staff is
15 asking that question.

16 MARIE MILLER: Sure, sure.

17 CHRIS LUI: Right.

18 MARIE MILLER: His nuclear scientist.

19 CHRIS LUI: Right.

20 MARIE MILLER: His chief scientist. But
21 it's coming though from the Japanese Government. Okay.
22 Well we're not seeing, we have not received any questions
23 here on that. So we'll obviously --

24 CHRIS LUI: Okay.

25 MARIE MILLER: -- you know, look for whatever

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1 is provided, you know, to be sent to us as well.

2 CHRIS LUI: Would it be helpful if we forward
3 you that email?

4 MARIE MILLER: Yes, I think so.

5 CHRIS LUI: Okay.

6 MARIE MILLER: Because we, you know, our
7 meeting with high level officials here, and so we sit,
8 I mean, obviously we won't bring that up. But it would
9 be good to say that we have an understanding of what's
10 being asked.

11 CHRIS LUI: Yes. Because I wanted to make
12 sure that we are not, I mean, we provide consistent
13 positions, and consistent answers.

14 MARIE MILLER: Exactly.

15 CHRIS LUI: Because chances that you might
16 be asked those questions there too.

17 MARIE MILLER: Okay.

18 CHRIS LUI: Okay?

19 MARIE MILLER: Exactly, yes.

20 CHRIS LUI: All right.

21 MARIE MILLER: Okay, very good. Okay.

22 CHRIS LUI: So we just send that to your
23 personal email?

24 MARIE MILLER: Just send it -- No, to Marie

25 --

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1 CHRIS LUI: Marie Miller?

2 MARIE MILLER: -- dot miller at NRC.gov.

3 CHRIS LUI: Okay. All right. All right.

4 Any other items? Anything (inaudible)?

5 MALE PARTICIPANT: Do we want to mention
6 PACOM or not?

7 CHRIS LUI: Oh, yes. Okay. All right. The
8 U.S. Command in the Pacific that they're -- Okay. The
9 Admiral in charge of all the Pacific Command is requesting
10 a daily status call with us.

11 MARIE MILLER: Okay.

12 CHRIS LUI: To look at what would be the
13 radiological assessment. Because I think that they want
14 to see whether we have any new information that they
15 do not have, to help them plan out any type of protective
16 actions. And possibly movement of the personnel. Okay?
17 Right.

18 (b)(5)
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22 MARIE MILLER: Because they actually have
23 a lot more information.

24 CHRIS LUI: Correct. Correct. So that
25 we're not planning on conducting any status updates,

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1 daily status updates with the Pacific Command.

2 MARIE MILLER: Okay. All right.

3 CHRIS LUI: And I will --

4 MARIE MILLER: So it was a request. And
5 then, so someone has gotten back to them?

6 CHRIS LUI: Well, I think our Liaison Team
7 is working that.

8 MARIE MILLER: Okay.

9 CHRIS LUI: What they can do is that they
10 can always send a request through NSS.

11 MARIE MILLER: Okay.

12 CHRIS LUI: The National Security Staff.
13 And I think that our Liaison Team is also going to --

14 MARIE MILLER: Okay.

15 CHRIS LUI: -- brief the NSS staff of a heads
16 up about the request.

17 MARIE MILLER: Okay, good. Good. Okay.
18 And the last thing in that regard. Are you getting the
19 plant -- Tony had, before I had even arrived, he was
20 sending the plant dose rate information. You know, it
21 was a plot, color plot that had dose rate information
22 around it. So are you seeing that still?

23 CHRIS LUI: No, we have not.

24 MARIE MILLER: No, we haven't either. Okay.
25 I'm going to try and see if we can, you know, get that

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1 again. Because, you know, we were getting that regularly,
2 and it seemed to have stopped. So I'm going to ask that
3 Tony go to TEPCO to ask if we can receive that. And
4 then I'll forward that on to the Protective Measures
5 Team, okay?

6 CHRIS LUI: Okay.

7 MARIE MILLER: All right. Very good.
8 Anything else?

9 CHRIS LUI: Not that -- I don't think we
10 have any other items here.

11 MARIE MILLER: Okay. All right. Next call
12 will be at 4 o'clock Japan time, okay?

13 CHRIS LUI: Okay. All right.

14 MARIE MILLER: All right. Thanks a lot
15 Christiana.

16 CHRIS LUI: Thank you. Bye, bye.

17 MARIE MILLER: All right. Bye.
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2 0%T_T1)L15365094

3 FEMALE PARTICIPANT: 719-955-1361.

4 RALPH ANDERSEN: 1361.

5 FEMALE PARTICIPANT: Pass code, 32 --

6 AUTOMATED MESSAGE: Welcome to Ready
7 Conference. For security verification, please enter
8 your pass code followed by the pound or hash key.

9 FEMALE PARTICIPANT: (b)(6)

10 AUTOMATED MESSAGE: Please hold while I
11 confirm your pass code. Thank you. Your pass code is
12 confirmed. When you hear the tone, you will be the
13 sixth person to join the meeting.

14 RALPH ANDERSEN: (Inaudible). Hi, does
15 anybody else --

16 DAVID HINDERER: Hi, Ralph. Dave Hinderer
17 from GE listening in today, and I've got some people
18 with me. They're forming a radiological team. We'll
19 get out a list of those team members to you, probably
20 at some point today.

21 RALPH ANDERSEN: Hey John, where are you
22 located at?

23 DAVID HINDERER: This is Dave. I'm in GE
24 of Wilmington.

25 RALPH ANDERSEN: Oh, I'm sorry, Dave. Okay.

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1 Do you know me?

2 DAVID HINDERER: You know me. Yes.

3 RALPH ANDERSEN: Okay.

4 DONALD COOL: Hey, Ralph, this is Don Cool
5 and others at the NRC Protective Measures Team. We
6 are calling from our operations center and it is a recorded
7 line.

8 RALPH ANDERSEN: Thank you very much, Don.

9 ANDREW SOWDER: Andrew Sowder, EPRI.

10 RALPH ANDERSEN: Okay.

11 DONALD COOL: Hey, Ralph, will you be
12 assembling a list of all the participants that you can
13 email to us afterwards?

14 RALPH ANDERSEN: Can we make that a topic
15 of discussion?

16 DONALD COOL: Sure.

17 RALPH ANDERSEN: I think at the outset we
18 ought to make sure that everybody's needs are going
19 to be met in that regard. You know, to sort of wait
20 until we've got everyone else on the line.

21 DONALD COOL: That's fine.

22 RALPH ANDERSEN: And then figure out the
23 most efficient way to do that.

24 DONALD COOL: That is not a problem. I just
25 know that my pencil was not nearly fast enough to write

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1 down everybody's name.

2 RALPH ANDERSEN: No, I understand. Then
3 we'll do it by some email mechanism. Hi, who's on the
4 line please?

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RALPH ANDERSEN: Oh, who joined us on the line, please, just now? So far on the line, we have INPO, GE, EPRI, NRC and NEI, and we also have a few people supporting those various organizations from remote locations. Is there any other organization on the line?

MALE PARTICIPANT: Hey, Ralph, just a heads up. I did get the request into DOE through their International Emergency Management Center. They're going to forward it on, but they're very doubtful that anyone today will be able to join the call.

RALPH ANDERSEN: Okay. And EPA was uncertain as to whether they would be able to call in on short notice, so we'll just see how that goes. And I've not heard back from OSTP, but given the level that we're interacting at, I'm not surprised by that on short notice. But, at the moment, the invitations are extended to NRC, DOE, EPA and OSTP.

Why don't we go ahead and get started, and if anyone else joins us, then we can catch them up after the call. First of all, welcome everybody. What I would suggest is that today's call is primarily on understanding who we are and considering the most efficient way to effect an ongoing information exchange on radiological

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1 data and opportunity to share our ideas on the implications
2 of that data.

3 And, to the extent that we can, to let us
4 each know what we're focusing on and what we see coming
5 up so that we can hopefully, mutually support each other
6 in an information exchange mode so that, one, we do not
7 end up taking the same data and interpreting it quite
8 differently, at least without understanding why if that
9 is the case.

10 And secondly, to better inform all of our
11 activities going forward. That was what I suggested
12 to the Director of Office of Science and Technology Policy.

13 So, my thought is that we try to see if we can make
14 this work, try to see a value is added across the board,
15 and if that turns out to be the case then we would continue
16 this on a periodic basis, initially daily.

17 And then if, over time, if it seemed like
18 we should interact less frequently and still retain value,
19 we would do that. And at some point, if we determine
20 that we should stand it down then we would do that as
21 well.

22 So what I'd like to suggest is that we go
23 around with each organization, briefly summarize what
24 our focus and our activities are at the moment. And
25 rather than do a lot of time introducing other people

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1 in the room, to the question that Don Cool of NRC had
2 asked previously, I would be fine if people were to forward
3 emails to me with who participated and I'll be happy
4 then to build an email list of primary points of contact
5 and then simply distribute the emails that I receive.

6 I'd also commit that I'll write a very, very
7 brief summary of the call, but I'm not intending at this
8 point to develop full scale meeting notes, or create
9 sort of a secretary position for these calls. If that
10 need arises, then we ought to talk collectively about
11 that the way that we would think to do it, but I just
12 think a very short bullet summary, topics discussed and
13 any resulting agreed actions coming out of it if there
14 were any. But in general, this shouldn't be an action
15 generating call given our relationships with each other.

16 Any questions or comments on that?

17 MALE PARTICIPANT: That sounds like a --

18 RALPH ANDERSEN: Okay. Well hearing none,
19 I think what I'd like to do is go to INPO first, so I'll
20 put you on the spot, Corey. So if you could just introduce
21 yourself as the defacto initial point-of-contact, and
22 then just give us a very brief synopsis of what the current
23 focus of INPO is and activities underway in regard to
24 the radiological protection area.

25 COREY FERGUSON: All right. Well thank you,

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1 Ralph. My name is Corey Ferguson, I'm an evaluator here
2 at INPO and we are manning a emergency response center
3 here. And our main focus is to collect radiological
4 data from various sources and to be a sort of collector
5 of data.

6 And then also, our counterparts with Ueno
7 Tokyo Center, if any questions come up or any requests
8 for information, we will provide them whatever information
9 we have and whatever we can find out throughout the
10 industry.

11 RALPH ANDERSEN: Any initial questions or
12 comments for Corey? Corey, one thing that might be helpful
13 too is, my understanding is that you are our commercial
14 industry conduit for, essentially, technical support
15 and ideas to potentially aid and assist the Japanese
16 in getting control of the situation and recovering.
17 Is that accurate?

18 COREY: Yes, that is correct.

19 RALPH ANDERSEN: Okay. Andrew Sowder,
20 could you give us just sort of a brief overview of what's
21 going on with EPRI?

22 ANDREW SOWDER: Yes, thanks Ralph.
23 Basically my role is entering as a point-of-contact and
24 coordinator for work relating to technical evaluation
25 of the spent fuel pool situation, coordinating with NEI,

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1 INPO, and we're also working with some vendors and Oak
2 Ridge National Lab, and other labs on modeling efforts.

3 Again, EPRI's main role is at the reach back
4 resource, providing technical assessment capabilities
5 as needed, but again we're certainly not out in front
6 on this. So, one of the things we have put out is a
7 statement about summary on criticality in the spent fuel
8 pools and we have one or two other specific items we're
9 working on. But again, we're mainly here to serve as
10 a resource, including if and when TEPCO reaches out to
11 us directly as a member.

12 RALPH ANDERSEN: Thank you, Andrew. While
13 you're sitting in the box, so-to-speak, could you give
14 us the one sentence statement of how much we should worry
15 about criticality in the spent fuel pools from your own
16 perspective?

17 ANDREW SOWDER: Based on what we know, we
18 do not see criticality as a credible event, even in extreme
19 cases of where the fuel melts, becomes rubble, not melts
20 but become rubblized and ends up at the bottom of the
21 pool, even with unborated water.

22 That is put into perspective in terms of,
23 the main focus should be on covering the fuel with water
24 or other substances, which may not be the appropriate
25 thing to do, to limit those to the workers. So the main

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1 issue there was to put the criticality issue in perspective
2 regarding other risks. That may change once we learn
3 more information and we're always trying to gather as
4 much as we can.

5 RALPH ANDERSEN: Thank you very much. Dave
6 at GE, could I draw on you to give us the sense of what
7 you guys are focusing on and what you see coming forward?

8 DAVID HINDERER: Well, basically since the
9 accident, GE and my radiological team has been supporting
10 a Japan response center that was set up here in Wilmington,
11 North Carolina, which has been in contact with TEPCO
12 on the ground, and the NRC, making technical
13 recommendations based on what we know to be the site
14 conditions. And I've been advising that team from a
15 radiological perspective. I've also been taking calls
16 at 10:00 in the morning.

17 Now, as of today, the GE here in Wilmington
18 has begun getting together a team of radiological experts;
19 sort of a oversight team. Now, on this call with me,
20 members from Research Triangle Institute and some
21 independent consultants; of course myself, and my team
22 member, Eric Kirsten (phonetic), and members of the
23 General Electric Environmental Health and Safety
24 Organization.

25 And we're just getting together this group

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1 today, much like this phone call is, so details will
2 be forthcoming about our abilities and how we can support
3 here. But, that is the overall effort, to support
4 radiological response and analysis of the information
5 that we're getting.

6 RALPH ANDERSEN: Thanks, Dave, and could
7 you give everybody your full name?

8 DAVID HINDERER: David M. Hinderer, GE Hitachi.
9 I work for the Nuclear Analysis Center of Excellence
10 as a radiological engineer.

11 RALPH ANDERSEN: Thank you. And if Eric
12 Kirsten is there, hello Eric from Ralph Anderson.

13 DAVID HINDERER: I think we have other members
14 which you may know, people in the room may know. Gentlemen?

15 TIM KIRKHAM: Hey Ralph, this is Tim Kirkham.

16 RALPH ANDERSEN: Tim, glad to meet you.
17 I haven't heard from you for a while. I'm glad you're
18 there. The focus right now at NEI is we've put together
19 a radiological assessment team, drawing on industry
20 support resources and using our own in-house resources,
21 besides sharing with our sister organizations to try
22 to come up with a composite viewpoint on what's going
23 on which we do on a daily basis.

24 Our primary mission here is to manage public
25 communications on behalf of the industry, manage interface

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1 with the Executive Branch and with the Congress, and
2 to also inform our member utilities on an ongoing basis
3 on what's going on. So we've sort of become the
4 clearinghouse of information for transfer to both the
5 public and the Government at the levels of policy.

6 This call actually represents our outreach
7 to also establish the technical interface in the
8 radiological area, which in our view will come to more
9 and more dominate at least the public and the political
10 side of these events for some time to come.

11 And again, my name is Ralph Andersen and
12 I'll be your primary point-of-contact, and when we do
13 the information sharing, then you'll see below my name
14 Ellen Anderson of our staff. We're not related but we're
15 good friends and have worked together for a lot of years.

16 With that, Don, I'd like to call on you to
17 kind of summarize what your focus is right now and, you
18 know, how you're set up and what you all are doing.

19 DONALD COOL: Okay. This is Donald Cool,
20 C-O-O-L, just like the temperature. I am currently the
21 Director of the Protective Measures Team in the NRC's
22 Operation Center. The NRC stood up --

23 RALPH ANDERSEN: Hey Don, we're having a
24 hard time hearing you for some reason.

25 DONALD COOL: Okay. Let me try to get really

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1 close to you and swallow the bat phone. Is that better?

2 RALPH ANDERSEN: It is.

3 DONALD COOL: Okay. So let's see what we
4 can do.

5 RALPH ANDERSEN: Thank you.

6 DONALD COOL: The name is Donald Cool. I'm
7 currently the PMT Director of Protective Measures Team
8 at NRC. Our operations center has been stood up and
9 operational since the event took place. We are a
10 round-the-clock, 24/7 operation in three shifts a day,
11 so at any given time you may have any number of people
12 serving as the Protective Measures Team Director and
13 the various folks supporting us in rad assessment.

14 We also have a reactor safety team, the GE
15 folks call that they mentioned at 10:00 is with those
16 folks next door to us, as well as our executives in
17 interaction. We are of course assessing the data.

18 Our primary focus is providing in-close
19 recommendations to the Ambassador and others in Japan,
20 and ongoing interactions with other federal agencies
21 and the White House, through various advisory committees
22 and the White House National Security Council, in order
23 to support U.S. Government decisions.

24 RALPH ANDERSEN: Great. Since we've
25 started, is there any other organization represented

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1 on the phone? Has either EPA or DOE joined us in the
2 call?

3 RAY CLARK: Yes, this is Ray Clark. We had
4 some technical issues with our high-tech phone here,
5 so I apologize for getting in late.

6 RALPH ANDERSEN: Go ahead.

7 RAY CLARK: Oh, I was going to say I'm Ray
8 Clark with EPA. Our EOC is open. We're operating a little
9 bit different than Don said with NRC, but roughly 12-hours
10 a day. The mission to monitor environmental radiation
11 nationwide is centered on our RadNet system. And we're
12 also trying to collect what information we can to look
13 at from other sources, such as NEI is kindly providing.

14 RALPH ANDERSEN: Okay. And just to double
15 check, is there anyone else on the phone, either DOE
16 or OSTP, who would like to comment? Okay, with that,
17 given Ray's last comments, I'm going to ask Ellen Anderson
18 of our NEI staff to sort of give you a brief update of
19 what we're putting in place for information sharing on
20 environmental radiation data from the nuclear power plant.

21 ELLEN ANDERSON: Thanks, Ralph.
22 Approximately March 16th, a U.S. Nuclear Power Plant
23 began to identify Iodine-131 in their environmental air
24 samples, and they requested collecting the data and
25 forwarding it to myself.

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1 This past Saturday, a couple days ago, I
2 actually distributed to NRC, to EPA and to our radiation
3 protection community, a table summarizing the data that
4 has been collected thus far. Right now, as we're
5 recognizing the fact that this could be a full-time job,
6 we went ahead here at NEI and developed a computer platform
7 for which data could be inputted into a website where
8 organizations and agencies could actually extract that
9 data for their review as needed.

10 I worked with NRC and EPA to come up with
11 the actual data that they requested so that we could
12 actually be a one-stop shop place to collect the data
13 and to get exactly what everyone needs. Each plant will
14 have its own page, except for Salem/Hope Creek which
15 is one rent (phonetic) program, so that particular site
16 will have one page.

17 But basically, if you wanted to go on and
18 see what's going on at Diablo Canyon or whatever, you
19 could just pull on to that one page and all that data
20 would be there. We anticipate that that website will
21 be ready some time today. Our IT folks are working fast
22 and furiously, as they have all weekend, to get it up
23 and running. We want to make sure that it's a quality
24 product, so they're working that as we speak.

25 What will happen is each plant will have

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1 a user ID and a password to input the information onto
2 their own page. By the way, the plants will also have
3 the opportunity to review other plants, at least view
4 other plants' data. As organizations and agencies such
5 as INPO, EPRI, NEI, NRC, EPA will have the opportunity
6 to view that data.

7 There will be one user ID and one password
8 per organization or agency. That information, the actual
9 information such as the user ID and password, will be
10 sent to you as soon as the website is up and running.

11 So, as of right now, like for instance INPO,
12 I have Cindy Connelly as the primary point-of-contact.

13 She will receive that email with the user ID and password,
14 and can share it amongst the organization at INPO. I
15 just need one of point-of-contact per organization.
16 At the NRC, Robert Nelson is our primary point-of-contact.

17 He will receive that email with the user ID and password
18 for NRC. Ray Clark, here on the phone, for EPA will
19 get that as well.

20 So we're in the process of putting that
21 together and that will be released, like I said, hopefully
22 sometime today. We're working to get that done. In the
23 meantime, since we submitted the initial data to NRC,
24 and EPA, and the plants, and INPO, and EPRI, on Saturday,
25 additional information has come forward.

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1 We are in the process now of updating that
2 particular chart. We're going to give it until noontime
3 today. As of noontime will be the cutoff point. We will
4 review this data and I expect early this afternoon, we
5 will submit the data since Saturday. Actually, it won't
6 be in addition to, it'll be just a new, cumulative table
7 so we'll have the data that we submitted on Saturday,
8 as well as what we've received since Saturday.

9 We'll do that for the next couple of days
10 until this website is up and running, and when I say
11 up and running, just because it's released to the community,
12 it's going to take a while for the data to be submitted.

13 I was just looking at the outage schedule right now,
14 refueling outage schedule, and the next couple of weeks
15 are the prime peak times so it may take the plants a
16 little while to get that information inputted into the
17 system.

18 So, I'll give it a couple of days and we'll
19 keep updating if I receive any additional information
20 so that you folks, NRC, EPA and company can have that.

21 Are there any questions for me about the website or
22 the data collection, or what we're doing with it? Okay,
23 good. Thanks, Ralph.

24 RALPH ANDERSEN: Thank you. What I was going
25 to suggest, at this point, is that we selectively try

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1 to agree on a standing agenda and Ellen, in the notice
2 she had sent out, had extended that out for the next
3 seven days. So I'd also want to test whether that makes
4 sense to you, and also whether there's any point in having
5 the calls on the weekend. We're here. I just want to
6 make sure there's a critical mass that would make it
7 worthwhile; probably an unfortunate choice of words.

8 But what I suggested in a couple of emails
9 that I had sent to some of you is that we would go to
10 an agenda of starting with a quick roll call, essentially
11 who do we have on the call, and then go through the various
12 organizations in a set order to describe changes and
13 developments in the last 24 hours, or since we last talked.

14 And then identify any topics that we wanted to briefly
15 discuss, and then that would be the end of the call.

16 And again, that identification and
17 discussion of topics would be a roundtable too. It'd
18 just go from each organization if you had some questions
19 that you wanted to put in the air, or comments that you
20 wanted to share with others, you know, that'd be an
21 opportunity to, if nothing else, know what each other
22 is focusing on at the moment.

23 The thought would be a 30-minute phone call,
24 11:00 to 11:30 each day. So if I could just throw the
25 floor open and see if you've got any comments or feedback

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1 on that approach to an agenda, I would appreciate it.
2

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1 (CONFERENCE CALL INITIATED)

2 0%T{R)K_15365094

3 DONALD COOL: Well, that sounds good from
4 our perspective at NRC.

5 RALPH ANDERSEN: And sort of along those
6 lines, it will often be the case on that call where we'll
7 talk about something that's probably supported by detailed
8 data or information. You know, my sense would be that,
9 you know, rather than attempting to transmit data for
10 discussion; one thing I don't want to do is spend a
11 half-an-hour analyzing a specific isotopic analysis of
12 a water sample from the unit 2 turbine building basement,
13 only to find out that it was wrong in the first place.

14 My thought would be that we just identify
15 on the call information that we can legitimately share
16 with each other, and then following the call, using a
17 fixed distribution, then that organization could just
18 simply transmit and share that data for others to take
19 a look at. But I'd suggest that we just remain at kind
20 of a summary level.

21 I assume, for example, that you all heard
22 that, in fact, there was no Iodine-134 in the water in
23 the unit 2 turbine building which would have indicated
24 an ongoing criticality. So it was a rather significant
25 technical error, but since then TEPCO has recanted and

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1 identified that there is no such isotope.

2 But, in any case, I propose to put an agenda
3 out with an updated meeting notice a little later today,
4 along with a very brief summary of our call, and with
5 the primary points of contact. But what I would ask
6 is if Ray, and Dawn (phonetic), and Dave from GE, and
7 Corey from INPO, and Andrew from EPRI, and I'll do the
8 same, could take the responsibility for sending me an
9 email with a list of people that were on the call.

10 I will just simply forward those right back
11 out to the full distribution, and that way for your purposes
12 in each organization, you'll have your documentation
13 of who was on the call. And then likewise, follow-up
14 a little later today with that very brief summary of
15 topics discussed and the proposed agenda that we'd use
16 going forward. Any comments or questions on that?

17 DONALD COOL: That sounds --

18 RAY CLARK: I was just going to say --

19 DONALD COOL: Go ahead.

20 RAY CLARK: I was just going to say that
21 at EPA, we'll have, at least at this point, somebody
22 here on the weekends as well. One more foot for weekend
23 updates.

24 RALPH ANDERSEN: Yes, and that's certainly
25 true of you at NRC, right Don?

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1 DONALD COOL: Yes, we have somebody here
2 all weekend long. Let me just sort of re-check, because
3 I don't remember now what you said. Are we going to
4 run this call on the weekends or not?

5 RALPH ANDERSEN: Yes, we will, given that
6 INPO; let me just make sure. INPO, you're around on
7 the weekends still as well?

8 COREY FERGUSON: As of right now, I think
9 our schedule's out to April 8th.

10 RALPH ANDERSEN: Okay, and then --

11 COREY FERGUSON: But I'm sure that will be
12 extended.

13 RALPH ANDERSEN: And likewise, we'll have
14 coverage as well, even if it's a call in. It might be
15 from our virtual operations center rather than our real
16 one, so we'll see how we go. But let's plan on at least
17 having the call through this weekend then. And so in
18 the meeting notice, we'll make that clear. And it will
19 be this phone number and this pass code each and every
20 time.

21 To my knowledge, this is the only thing that
22 that phone number and pass code are being used for, so
23 we'll just stick with it. Any final comments or questions
24 then before we sign-off for the day?

25 DONALD COOL: Well, this is Don Cool.

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1 RALPH ANDERSEN: Okay.

2 DONALD COOL: I've got one just to let your
3 folks at INPO and others think about. One of the other
4 calls that we have every day, at least during the week,
5 is with some of our international counterparts, and there
6 was some discussion this morning regarding the water
7 in the turbine building, and the radiological issues
8 associated with that, particularly with regards to how
9 that water might be handled and the issues of shielding
10 or otherwise, while it's in place or moved, so that you
11 could then do some work in the buildings.

12 There was pure speculation on our parts,
13 of course, but I wanted to alert you that some people
14 were thinking about that and perhaps at some point as
15 your various contacts think about what you were going
16 to do and the radiological implications, it would just
17 be interesting to hear what you all were thinking.

18 RALPH ANDERSEN: Yes, let me ask Corey
19 Ferguson to step up on that. I think he might have a
20 few comments in that regard as well.

21 COREY FERGUSON: Well as of right now, all
22 I have is just the updated isotopic information on it.
23 In our morning discussion, we did not go into that,
24 but I can take that back and get some more information
25 on that.

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1 RALPH ANDERSEN: And then Dave, I think you
2 or one of the other GE folks had mentioned that in our
3 earlier call as well on the water purification system
4 issue, is that right? Is that something you guys are
5 looking at as well?

6 DAVID HINDERER: Well, we're looking at the
7 contents of the pool and we're suspicious to some degree
8 of the nuclides that we're seeing in there; whether we're
9 getting a full picture of what's going on in those pools.
10 So, at this moment we're going to reserve comment on
11 what we're seeing in there.

12 RALPH ANDERSEN: Yes, I'll comment, and I'm
13 going from memory, but you know, there was this
14 insignificant experience that I recall from TMI, so all
15 I can say is that getting into the filtration business
16 for water that looks anything like what we're hearing
17 needs to be a well-conceived plan from the point of taking
18 suction on something to ultimate disposal of the contents.

19 And if you haven't done it all the way through, one
20 of our lessons out of TMI is then you made a big mistake.

21 So Don, I would just offer that a holistic
22 approach needs to be taken based on our experience from
23 Three Mile Island. And not just stop at the point of,
24 okay, I got the radioactivity out of the water that I
25 was trying to get it out of. You can create progressively

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1 larger problems as you go. I'm sure other expert companies
2 will get involved, but I can tell you that one from
3 first-hand experience.

4 MICHAEL KENT: This is Michael Kent at INPO.
5 We have vendors on-site at INPO that are working on
6 that --

7 RALPH ANDERSEN: Great.

8 MICHAEL KENT: -- water filtration. That's
9 a short-term and a long-term issue.

10 RALPH ANDERSEN: Great.

11 DONALD COOL: Hey, thank you very much.
12 And it was not that we needed to know the detailed specifics,
13 but rather that questions were starting to come up and
14 so having some knowledge of the different things that
15 you were thinking about, because it's a lot of activity
16 if those measurements are true. You have your
17 occupational dose as well as the environmental dose issues,
18 and it's some of those places where our friends start
19 to ask us questions. So, appreciate that.

20 MICHAEL KENT: (Inaudible) and the only
21 input we have on this filtration issue is, you know,
22 that it seems to be getting the cart in front of the
23 horse to some degree. In the interim, they need a way
24 to store that water. We're obvious not going to be able
25 to filter it in any short length of time, or have that

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1 develop. They have a critical situation right now,
2 however, of storing that water.

3 DAVID HINDERER: From what I was told, they
4 want to pump the high activity water into the condenser,
5 the condenser to hot well. On the low activity water,
6 they have a pool near there that they were going to put
7 the water into. I think it was an overflow pool.

8
9
10 (b)(5)
11
12
13

14 And then if you have the re-floods, it won't
15 become an SME issue, like if you used some type of
16 strippable paint or something like that.

17 MICHAEL KENT: Or a lid for that trench.

18 DAVID HINDERER: Yeah.

19 RALPH ANDERSEN: Maybe somebody could help
20 me. Where does the trench go to? I'm referring to the
21 trench that is described as coming from the turbine
22 building.

23 MICHAEL KENT: We'd like that help as well.

24 RALPH ANDERSEN: Does GE have that? Can
25 you get a site map with trenches and diagrams, things

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1 like that?

2 TIM KIRKHAM: I can attempt to. You know
3 I do have the original plot plan from, I guess it was
4 unit 1 (inaudible). It doesn't include the other units
5 there.

6 RALPH ANDERSEN: Okay.

7 TIM KIRKHAM: And those two have people
8 examining pictures of the site. I'll take that as an
9 action to see if we can identify that trench.

10 MICHAEL KENT: That'd be great if you could
11 get it and send it all out to us.

12 RALPH ANDERSEN: Excellent. Okay. That's
13 precisely the kind of synergism that I think would bring
14 value to continuing these calls. And if we see needs
15 to modify the calls to make them more productive, and
16 I think this is a good example of that, you know, let's
17 all retain the flexibility to do that.

18 Is there anything else, since we're on the
19 phone and God knows what'll happen in the next 12 hours.

20 If there's anything else on somebody's mind, why don't
21 you go ahead and toss it up in the air right now?

22 MICHAEL KENT: Has there been any talk about
23 getting water samples out to the U.S. so we can analyze
24 them?

25 RALPH ANDERSEN: Don, do you have any sense

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1 of that?

2 DONALD COOL: I have not heard anything from
3 our perspective. The last thing I saw on water samples
4 was now, at least 36 if not 48 hours ago when they had
5 taken a string of seawater samples at 30 kilometers.

6 I have not heard about additional water
7 samples on the site, or other environmental samples.
8 We are seeing the MECS data, but that's gamma survey
9 data. That number points at various areas on land.

10 MICHAEL KENT: Well, it would be nice if
11 we could get water samples sent out to one of the labs
12 that normally does them, I mean for the power plants,
13 to get a alpha and a beta mixture. That'd also help
14 us know how much fuel, or the condition of the fuel.
15 I don't know, Japan may have that locally.

16 I don't know if their swamped doing the MECS
17 data or something like that, but if we could recommend
18 that, maybe offer up that, that would be great. I know,
19 who does our water? NWT does a lot of water samplings
20 for plants.

21 I don't know if anybody's contacted them
22 to see if they could help us out, but that would just
23 be something and it'd be, going forward, you'd know all
24 the nuclides so you could really start fastening some
25 true protective actions instead of taking a swag at

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1 it.

2 RALPH ANDERSEN: Along those lines, last
3 week our technical support just happened to include
4 several radiation protection managers, or ex-radiation
5 protection managers. You know, a composite reaction
6 that we had to some of the pictures that we saw is that
7 the respiratory protection that's being used is woefully
8 inadequate for almost any of the circumstances that they
9 might be confronting.

10 And I can understand logistically why that
11 might be the case. We're certainly hoping that that
12 obvious point can be pushed along through the chain.
13 I just have to wonder, at the level of potential intakes
14 that might be there already.

15 DONALD COOL: Ralph, this is --

16 RALPH ANDERSEN: If they're not already.
17 Don, do you have any insight on that?

18 DONALD COOL: I do not have any insight on
19 that, but I was just going to share with you that we
20 had heard, complete unconfirmed, that they did not have
21 individual dosimeters on everybody working there. That
22 it was a dosimeter per group of individuals.

23 I have no idea where that came from, but
24 that's another issue associated with understanding the
25 real conditions that they're working with, and the

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1 exposures. You're quite correct. What's the airborne?
2 What's their intakes, et cetera? We have no whiff on
3 that at all here.

4 RAY CLARK: Well, I can just tell you a couple
5 things. One of the first airborne samples we received,
6 I think it's Dr. Sowden (phonetic) did a calculation.
7 He just back used, basically compared it to Chernobyl
8 and scaled the cerium values, and he came up something
9 around 34 dack (phonetic) hours. That was at the main
10 gate where they were taking that. If they took that
11 air sample, that's what they would be in.

12 So, I would anticipate that it's much higher
13 around those trenches, because you can say .01 percent
14 of a cold, wet water goes airborne. So, with those levels,
15 you could have very high levels of (inaudible) airborne
16 around that area. And then the other thing, I was over
17 there in Japan two weeks ago, and the symmetry I saw
18 them using was basically, it looked to be an ED, electronic
19 dosimeter. It had accumulated dose only, and it did
20 not appear to have a beta window.

21 RALPH ANDERSEN: Okay.

22 RAY CLARK: So, I don't know how they're
23 tracking beta dose right now, which could be substantial.

24 RALPH ANDERSEN: I'm very, very concerned
25 about that, in the same way that the difficulties arose

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1 with regards to the beta exposure of the two workers,
2 but I'm much more concerned about the situation with
3 airborne and intakes. That's something that's going
4 to come out, and again, just taking a look at the pictures,
5 those clearly aren't powered-air purifying respirators
6 or self-contained breathing apparatuses, and even
7 thinking about just a simple AP respirator.

8 Nor do they look like they have iodine
9 cartridges on them which protrude a lot more from the
10 surface of the respirators. So if they're using what
11 I suspect they're using, they might as well not be bothering
12 with the masks in the first place. Remember, those have
13 a efficiency of 50 at the outset under the best of
14 circumstances. So, you know, I'm not sure how that
15 information can best be conveyed or understood, or the
16 impact that it will have, but it's just something
17 particularly notable and I felt we needed to say that.

18 RAY CLARK: Agreed.

19 RALPH ANDERSEN: Okay. Let's plan then on
20 talking again tomorrow at 11:00. For me in particular,
21 this has been both productive and actually enjoyable
22 to be able to talk with you all on a collegial basis
23 like this. So, I guess 11:00 tomorrow, same time, same
24 station, and in the nature of the conversation, why don't
25 we actually plan these as 45-minute calls then.

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1 RAY CLARK: Agreed.

2 DONALD COOL: Thanks, Ralph. Sounds good.

3 MALE PARTICIPANT: All right.

4 RALPH ANDERSEN: Don't forget to send your
5 list of names in and we'll get those to our respective
6 federal counterparts because I know that they like to
7 know those kinds of things.

8 MALE PARTICIPANT: Will do.

9 MALE PARTICIPANT: Take care.

10 MALE PARTICIPANT: Send that over to me?

11 MALE PARTICIPANT: All right.

12 DONALD COOL: Okay. Thanks, Ralph.
13 Bye-bye. And I think -

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(CONFERENCE CALL INITIATED)

0%TZ!32_15365094

AUTOMATED MESSAGE: Welcome. You have reached the audio conferencing system. This call may be recorded. After the tone, enter your conference security code followed by the pound key. Thank you. After the tone, please state your name and organization followed by the pound key.

DONALD COOL: NRC Protective Measures and Reactor Safety Team.

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(CONFERENCE CALL INITIATED)

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DONALD COOL: This is NRC. Who else just joined the bridge?

ALIO ARZETI (phonetic): Canada is here.

DONALD COOL: Good morning.

ALIO ARZETI: Good morning.

ALEX ARANI (phonetic): Good morning. The U.K. NII is here.

FRANCE MALE PARTICIPANT: I guess we're France.

DONALD COOL: Are we going to be getting our colleagues from France?

FRANCE MALE PARTICIPANT: France ASN is in.

TAIWAN MALE PARTICIPANT: And Taiwan.

MALE PARTICIPANT: Taiwan?

FEMALE PARTICIPANT: Yes.

MALE PARTICIPANT: Yes, they asked to join.

DONALD COOL: So I think that means that we have all of the participants. Then my understanding is that this is a combined call of the reactor and the radiation issues for this morning. I'm Donald Cool. I'm the Director of NRC's Protective Measures Team for the day shift today. We've got a number of people around the table here from my Protective Measures Team, from

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1 the Reactor Safety Team, and from our liaison team,
2 International Programs. Who else have we got?

3 PETER ALTER: We have Peter Alter from the
4 Reactor Safety Team.

5 SANDRA WASTLER: Sandra Wastler from the
6 PMT.

7 DUANE HARDESTY: Duane Hardesty from the
8 (inaudible).

9 KAREN HENDERSON: Karen Henderson from
10 International Programs.

11 MALE PARTICIPANT: Okay. Okay.

12 FEMALE PARTICIPANT: Do we need to take the
13 lead on it? When I sat it, it was the first time I'd
14 seen them and they said we took the lead, so --

15 MALE PARTICIPANT: Okay.

16 FEMALE PARTICIPANT: -- lead away.

17 DONALD COOL: Okay. This is Don Cool from
18 the NRC Protective Measures Team. We have been continuing
19 to follow various radiological conditions, both in and
20 around the Fukushima Daiichi facility, sending datapoints
21 both at the site and off-site. On-site, what we have
22 seen indicates that the dose rates are very slowly trending
23 down at various posts. At the perimeter of the facility,
24 we have information of very high radiation levels in
25 the turbine buildings of units 2 and 3; water on the

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1 floors there.

2 Our reactor safety folks can talk a little
3 bit more about some of the implications there in a moment.

4 We also have been looking at the off-site data which
5 continues to indicate levels of contamination,
6 particularly to the north and west of the facility, but
7 those data are also trending downward.

8 It actually looks like it has gone down by
9 more than a factor of two, an effective half-life of
10 maybe six or seven days in the area northwest of the
11 facility where there was initially the greatest deposition
12 of radioactive materials. Additional surveys in other
13 areas continue to indicate areas that would not indicate
14 other protective actions indicated at this point, and
15 certainly not an indication down towards Tokyo or other
16 assets. How does that compare with what you other folks
17 have been seeing?

18 STEVE WALKER: Do you want to go? I mean
19 that's probably --

20 ROBERT CLARK: Hello there, it's Robert
21 Clark here from the U.K.. And just to respond to the
22 radiological information that you were just talking about,
23 Donald, we don't actually have so much information
24 provided by anybody on the ground. But the information
25 that we've been getting through; I don't know whether

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1 you've seen anything that's come directly from Tokya
2 Electric, which is essentially a radionuclide breakdown
3 of the water that we believe to be in the turbine hulls.

4 DONALD COOL: We've actually seen one set
5 of data. I don't have it in front of me at this moment
6 so I can't tell you exactly what's the source. We had
7 some of our translators working on it yesterday, but
8 it had the gamma portion of some of the breakdowns, it
9 had a number of isotopes, a lot of iodine, but also some
10 very short-lived things.

11 There was a lot of Lanthanum and some other
12 things which are only a couple day half-lives in that
13 water. We understand the dose rate in the unit 2 turbine
14 building was a sievert per hour.

15 ROBERT CLARK: Yes, that concurs with the
16 information that we've got. We, as I'm sure you, have
17 concerns about the accuracy of the information,
18 particularly as we have on the information that we've
19 got, things like Chlorine-38, and as you suggested, the
20 Lanthanum-140, both of which have got very short
21 half-lives and which we wouldn't necessarily have expected
22 to see at this point.

23 There was some discussion about whether a
24 criticality could have been ongoing which could be the
25 cause of the Chlorine-38. Obviously if there was a neutron

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1 flux that could activate the chlorine with it's high-cross
2 section that would explain the origin of that material.

3 I think we've basically satisfied ourselves
4 at this end that that's unlikely and that we are treating
5 the information as potentially suspect.

6 DONALD COOL: We are in a similar position.
7 We had some separate folks look at what had been reported
8 as a chlorine activation. Their conclusion was similar
9 to yours for two reasons. One, there were a couple of
10 other isotopes that have peaks in the very similar range
11 so it might have been a misidentification of the chlorine.

12 And there were some other isotopes that they
13 would have expected if there was an ex-core (phonetic)
14 ongoing criticality, which they did not see. Having
15 said that, the level of radionuclides, and some of the
16 other radionuclides lead us to suspect that there may
17 be a pathway of water from the reactor vessel to the
18 turbine buildings, and so we haven't ruled out that those
19 other radionuclides are wrong. Of course we're all
20 operating on very much of a lack of information.

21 ALIO ARZETI: This is Alio Arzeti from Canada.
22 On Friday, it was mentioned that there was the possibility
23 of venting, to the turbine building from the reactor
24 pressure vessel, was a possibility. Is that still being
25 considered?

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1 DONALD COOL: I'm looking over at my reactor
2 safety guy.

3 PETER ALTER: We don't have any information
4 about that.

5 ALIO ARZETI: Is it a possibility though?

6 PETER ALTER: I have not thought about it.
7 I'd have to sit and think about it for a while. In
8 the United States, those ventilations, the exhaust
9 ventilation systems join before they get to the stack,
10 but I don't know how you would do it any other way.

11 DONALD COOL: And of course we're also aware,
12 if that was a venting, we know that they have taken out
13 at least one of the blow out panels in 2 so I'm not sure
14 that that would have resulted in getting a whole bunch
15 of material into the turbine building. But that's a
16 speculation by a non-reactor guy.

17 PETER ALTER: The hole on the ocean side
18 of the unit 2 refuel floor is the result of removing
19 a blow out plug. That was not a hole that was made.
20 It was a hole that was uncovered, if everybody followed.

21 ALEX ARANI: Peter, this is Alex Arani from
22 NII, U.K.. We have been contemplating the possibility
23 of bleed and feed through the main outlet 2, and making
24 use of the bypass line from the turbine, and discharging
25 directly, either to the turbine hull or into the river.

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1 Is that something that you have thought about, and perhaps
2 you have any thoughts on that?

3 PETER ALTER: Several teams in the United
4 States are trying to figure out all the ways of getting
5 contamination from both the reactor and primary
6 containment into the turbine building floor, or onto
7 the turbine building floor.

8 Based on our knowledge of United States built
9 plants, there are several paths and these are only
10 conjecture. We don't know actually what path they are
11 purposely or non-purposely using. Okay?

12 ALEX ARANI: Okay.

13 PETER ALTER: All right, the first one that
14 was mentioned about using U.S. plants as a guide is the
15 main steam lines. Main steam line isolation valves have
16 been known not to be totally leak tight. The bypass
17 valves around the main steam line isolation valves, which
18 are normally shut during power operations, are motor
19 operated valves.

20 We must remember that they had diesel power
21 for an hour, so we don't know what they might have done
22 during that first hour. So those valves might have been
23 opened and now they can't close them. The feed water,
24 that's main steam line, okay?

25 ALEX ARANI: Okay.

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1 PETER ALTER: Next line, feed water; feed
2 water check valves, like any other feed water check valves,
3 are known leakers. So it could just be backwards through
4 the feed water lines, although in units 2 and 3, they're
5 pumping water forward through the feed water line,
6 according to IAEA, 28 March, 0500, Greenwich meantime.
7 And they've been doing that for a while.

8 As far as getting contamination from the
9 reactor building, which is secondary containment, into
10 the turbine building, in the United States, typically
11 reactor building and turbine building drains are not
12 cross-connected in any way, shape or form until you get
13 to the Radway's processing system. However, we do not
14 know whether or not that degree of separation exists
15 in the floor drain systems at Daiichi. So that is a
16 possibility, but it doesn't appear it would be a
17 possibility in the United States.

18 I don't remember hearing or seeing anything
19 about venting from the reactor building into the turbine
20 building atmosphere, and I don't believe that that is
21 a viable flow path in the way we build boilers in this
22 country. There might be others, but there are several
23 knowledgeable people trying to come up with all manner
24 of bypass flows from the reactor, primary containment
25 or secondary containment reactor buildings into the

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1 turbine building basement.

2 MALE PARTICIPANT: Okay.

3 ALEX ARANI: We hope to just expand on that
4 discussion. Do you have any information that they might
5 have gone to a re-circular system at the moment, or are
6 they still once through (phonetic) using some kind of
7 bleed and feed?

8 PETER ALTER: We don't have any information
9 about that.

10 ALEX ARANI: Because one of the lines of
11 thoughts that we have here, with all the saltwater being
12 injected into the reactor pressure vessel, the operational
13 integrity of the steam relief valve line may no longer
14 be maintained, and they may have gone to alternative
15 means of bleed and feed, not using the designed route.

16 This was a possible thought and I just wondered if you
17 had any thoughts on that.

18 PETER ALTER: We don't here in the U.S.
19 Anybody else?

20 ALIO ARZETI: Nothing to add from Canada's
21 point-of-view.

22 ALEX ARANI: Do we have any views from ASN?

23 FRANCE MALE PARTICIPANT: No, we don't any
24 information on that.

25 DONALD COOL: All right. Are there other

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1 issues that we want to explore today?

2 ALIO ARZETI: Canada here, the one question
3 I had; amongst the nuclides that was found on the turbine
4 floor was Lanthanum-140. That would indicate fuel damage
5 to some extent. Does anybody else agree or disagree?

6 DONALD COOL: We certainly agree with that
7 from here in the U.S. We believe that there is at least
8 some percentage of fuel damage in each of the units.
9 How about other folks?

10 ALEX ARANI: I think that from the U.K.
11 perspective, the general view is that the fuel is certainly
12 damaged, to the extent of which is currently unknown.

13 ALIO ARZETI: Then that leads me to my next
14 question. Is there some sort of breach in the RCS then?

15 DONALD COOL: Again, from the U.S.
16 perspective, we suspect that to be the case given that
17 radiological information there, but we have no information
18 that gives a firm confirmation. Our two data points
19 are the presence of those radionuclides in fairly high
20 concentrations, and no pressure in the reactor vessel.
21 It's essentially atmospheric. How about other folks?

22 ALEX ARANI: Following from that discussion,
23 the process of bleed and feed. If that follows on, let's
24 look at it a bit broader. If the RPV is damaged, we're
25 losing water from the RPV to the primary containment.

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1 From what TEPCO and other information suggests, they
2 are continuing to put water into the RPV. Do we know
3 if there is an established process of removing the water
4 either from RPV or from the primary containment?

5 DONALD COOL: From the U.S. Protective
6 Measures Team's perspective, we share that question and
7 we don't know the answer. But it would appear to us,
8 just on the very limited information, that that water
9 is getting out.

10 And in fact, monitoring the various newscasts,
11 we're observing that there are news reports now that
12 there is a radialation (phonetic) and radioactive water
13 in some of the tunnels and cable trenches outside of
14 the turbine building, in the direction of the ocean,
15 which leads us to speculate, without any other data,
16 that that water is continuing to migrate places which
17 can't be a good thing. Other folks suggestions and
18 thoughts?

19 ROBERT CLARK: (Inaudible).

20 MALE PARTICIPANT: Again --

21 ROBERT CLARK: We've had similar, fairly
22 sketchy communications along those lines that seem to
23 suggest that there is material sort of out of the area
24 that we'd previously thought it was. And just to confirm
25 what we talked about earlier, we in fact had some reliable

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1 information that we think to quote these dose rates of
2 the maximum of a sievert an hour in the turbine hole.

3 Now, I don't have any proper understanding
4 of whether the dose rates associated with the material
5 outside the area are of those orders, but it would seem
6 a reasonable presumption to make if that material is
7 in fact outside of the area.

8 DONALD COOL: Yes, we have no basis of
9 information outside the area other than we have NHK
10 counseling on one of our screens and I'm watching it
11 this morning. They were starting to talk about that,
12 but I admit my Japanese isn't good enough to know whether
13 they were quoting the same dose rate level or not.

14 ALEX ARANI: Can I supplement? This is Alex
15 Arani from the U.K. Can I supplement my colleague's
16 comments?

17 DONALD COOL: Absolutely.

18 ALEX ARANI: By asking whether for a U.S.
19 equivalent design of the plant, do you have the background
20 reading for the primary containment for us to be able
21 to compare the two results that have now been issued?

22 PETER ALTER: In a U.S. Mark I Containment,
23 the thumb rule is that at 100 percent power, the rad
24 levels inside the dry well are 100-R per hour.

25 DONALD COOL: One sievert per hour.

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1 ALEX ARANI: Okay, thank you. That is very,
2 very helpful.

3 PETER ALTER: That's direct shine from the
4 core.

5 ALEX ARANI: Okay. That's one sievert per
6 hour?

7 PETER ALTER: That's correct.

8 ALEX ARANI: At power; do you have the
9 equivalent data for when the plant is at shut-down
10 condition?

11 PETER ALTER: That's --

12 ALEX ARANI: (Inaudible) design, or
13 equivalent U.S. design?

14 PETER ALTER: That's totally dependent upon
15 the age of the plant and any contamination controls that
16 they've put together on the recirc piping, which is the
17 major contributor to shutdown radiation levels in the
18 dry well.

19 ALEX ARANI: Okay.

20 PETER ALTER: And so I can't give you a
21 representative number. I don't even know the numbers
22 for the plants that I was at four years ago. All I know
23 is I could spend quite a bit of time inside the dry well
24 of a Mark III Containment. They're a lot easier to get
25 around in.

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1 ALEX ARANI: Okay. But, the Mark I and Mark
2 III, which are the design of these plants --

3 PETER ALTER: No, all the containments for
4 units 1, 2 and 3 are Mark I Containments. The Mark II
5 containment is in unit 6.

6 ALEX ARANI: That's great, thank you. But,
7 the operators are expected to enter the primary
8 containment during shutdown periods, is that correct?

9 PETER ALTER: Yes, the dry well is accessed
10 during shut down conditions to do all sorts of a number
11 of things.

12 ALEX ARANI: Okay. Thank you for that. So
13 from the information that has been provided so far, we
14 believe two of the RPVs -- I mean one potential location
15 for the breach of RPV is expected to be the lower head
16 penetrations.

17 What we don't have any views whether these
18 higher readings are as a direct result of some leakage
19 through those penetrations, or could the mechanical
20 integrity of the RPV may have been lost during the past
21 14 days.

22 PETER ALTER: Okay. The new reg that I sent
23 you on perspectives of reactor safety and the BWR portion
24 of it, I think it's 3.7, they offer the National Lab's
25 perspectives on all kinds of lower head penetrations

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1 and their susceptibility to failure should the core
2 meltdown into the lower plenum.

3 However, depending upon when the
4 accumulation of salt occurred, there could be any amount
5 of insulation to those penetrations prior to core slumping,
6 and so it's hard to tell. They didn't know anything,
7 what happened in Three Mile Island, until I believe it's
8 two years later.

9 ALEX ARANI: Okay.

10 DONALD COOL: So, other questions or have
11 we run out of the issues for today?

12 ROBERT CLARK: This is Robert Clark from
13 the U.K. One of the things that we were doing earlier
14 today was just having a think about the source terms
15 that we'd used which we provide to the Health Protection
16 Agency in the U.K. and the Met Office, and they produce
17 for us dose assessments that we use to guide advice that
18 we give to British nationals overseas.

19 Now these source terms, agreed source terms,
20 which we've shared with you before have been in place,
21 as they are now, for at least sort of nine days. But
22 we've been asked the question, and I think it's a fair
23 one, is it still appropriate to use the source terms
24 that we were using eight or nine days ago, notwithstanding
25 the fact that we have made some correction for iodine

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1 decay.

2 And I was just wondering what everybody else's
3 view would be on whether you have asked yourselves the
4 same question.

5 DONALD COOL: Okay. This is the NRC's
6 Protective Measures Team.

7
8 (b)(5)
9
10
11

12
13 (b)(5)
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15
16

17 What I will tell you is that we backed away
18 from a significant contribution from either one of the
19 spent fuel pools and focused on varying amounts of ongoing
20 release from the three reactors that were fueled.

21 ALIO ARZETTI: From a Canadian perspective,
22 we've basically aged the source term we produced two
23 weeks ago to account for decay and losses over these
24 past two weeks. Looking at the numbers, the overall
25 bulk dose rate's probably gone down by 5.6 times.

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1 ROBERT CLARK: Okay. Do France have a view
2 on source terms?

3 FRANCE MALE PARTICIPANT: (Inaudible)
4 processing a conclusion at the moment, but I don't have
5 the results. But we are doing the same exercise right
6 now.

7 ROBERT CLARK: Sorry, could France just
8 repeat that again, please?

9 DONALD COOL: Yes, it was a little bit soft.
10 We're having trouble hearing you.

11 FRANCE MALE PARTICIPANT: We are processing,
12 at the moment, the new calculation but I don't have the
13 results yet. But we are doing the same exercise.

14 ROBERT CLARK: Okay. That's very
15 interesting that we've all effectively come to the same
16 decision at about the same time. I think it's probably
17 well worth us keeping this tight among the agenda for
18 discussions at future meetings, teleconferences. It
19 may not be me, but my colleague, Steve Walker, who's
20 actually in the room presently, will provide some update
21 on the U.K. position hopefully tomorrow.

22 We may not actually finalize our decision,
23 but we will certainly have more information to feed in
24 so that could be quite a useful discussion tomorrow I
25 think.

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1 DONALD COOL: That's fine with us. The plan
2 is agreed.

3 ROBERT CLARK: Could I, if there is no further
4 comments --

5 ALIO ARZETI: I have one more question from
6 Canada's point-of-view. Based on the activity levels
7 we've seen in the turbine building basement, can we
8 characterize the breach, if any, as being small?

9 DONALD COOL: I would love to be able to
10 answer that question, but I have no basis for knowing
11 what size it might be. All we have is I think what you
12 have which is a bunch of water that's screaming hot.

13 ALEX ARANI: Don, that was very helpful.

14 DONALD COOL: Yes, sorry about that.

15 ALIO ARZETI: Not a problem. I just wanted
16 to know because based on radiation levels, it should
17 be a lot hotter, but you know, like you said, there's
18 no way of knowing.

19 DONALD COOL: Yes, there's no way of knowing.
20 And one of the things that we've talked about here is
21 the info that we saw was gamma dose rates. We don't
22 have anything to tell us what the pure beta component
23 might be in there.

24 ROBERT CLARK: This is Robert Clark from
25 the U.K. again. We asked ourselves the same question

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1 this morning, essentially, because the radionuclide
2 information didn't have an obvious candidate of
3 something-90 (phonetic), and the reports that we appear
4 to be getting about skin burns, which you know, we are
5 assuming; we don't know, but we're assuming are being
6 caused by the radiation. It's our belief that then
7 probably the majority of those are actually caused by
8 burns from the beta dose.

9 DONALD COOL: That's exactly what we were
10 concluding over the last day or so, in the absence of
11 any other information.

12 ROBERT CLARK: Just before we conclude, one
13 of the other things. It's Robert Clark from U.K. again.

14 One of the other things that we talked about this morning.
15 We don't have any means of inputting this information
16 into the appropriate sort of lines at the moment, but
17 there was some talk earlier of them draining the turbine
18 hole, either to the condenser, or to barges we'd heard
19 about, to sort of store the material to deal with it
20 later.

21 And one of the things that occurred to me,
22 and I'm sure that the appropriate authorities have
23 considered this, but there might actually be a
24 disadvantage to draining that water away, for several
25 reasons. One is that although that water is clearly

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1 the source of the radiation, it's also acting as quite
2 a significant, or could be acting as quite a significant
3 shield, both for the material that's dissolved in it
4 and for anything that would settle out onto the base
5 of the turbine hull building.

6 So it occurred to me with my sort of
7 hell-physics (phonetic) hat on, that if I was going to
8 be draining that turbine hull down, I'd want to replace
9 that water with clean, uncontaminated water because that
10 would give me additional shielding and it would reduce
11 the release of potentially airborne material to
12 atmosphere.

13 I think one of the things that we're
14 particularly interested in from the U.K. perspective
15 is the authorities are in a position where they can deal
16 with the nuclear safety recs (phonetic) and if those
17 are being compromised potentially by inaccessibility
18 of a building or a facility, because of say high dose
19 rates, we think that sort of information needs to be
20 fed in. I don't know whether anybody else has any views
21 on that.

22 DONALD COOL: From the U.S., we hadn't
23 actually thought about that yet. In part, I'll just
24 speculate because it wasn't clear to us that there wasn't
25 an ongoing flow of water from the reactor building and

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1 the containment itself, so it wasn't obvious to us what
2 you would do with that. And quite frankly, your suggestion
3 that they might be thinking about draining it, this is
4 the first we've heard of that.

5 ROBERT CLARK: Okay. I mean this is on the
6 basis of very limited information, you understand, but
7 it was just a thought that one or two of us had, and
8 we wondered where the opportunity might be to feed that
9 in. And obviously, with other people being involved,
10 you may have access to people in order to give that advice
11 that we might not necessarily have from our end. So
12 it was really just something to sort of bear in mind
13 if you got the opportunity to feed in.

14 DONALD COOL: It's a very interesting
15 thought and with my rad protection hat on, I would agree
16 with you. The water there is a significant source.
17 You've got to deal with the source to be able to do any
18 activities, and the longer that sits on the floor, the
19 more of that radionuclide is going to be plated down
20 onto the concrete and other things.

21 So even if you remove that water, you're
22 going to have a lot of source sitting there. I would
23 agree with at least the first parts of your thought process.

24 We'll tuck that away if we have a chance to feed that
25 to somebody.

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1 ROBERT CLARK: Okay, that's great. Thank
2 you for that.

3 ALEX ARANI: I also have another thought
4 that we would like to share with you. Perhaps you'll
5 follow on that tomorrow. One of the questions that has
6 been raised is the implications of salt being present
7 within the RPV and its potential consequences. Last
8 week when we spoke about that, we considered and we knew
9 at the time, that the Japanese were planning to make
10 use of fresh water instead of seawater for the cooling
11 purposes.

12 If we have no additional information with
13 regard to any potential breach on the pressure vessel,
14 do we have any views of how likely it is that we'd be
15 removing the salt contents from the fuel and the core
16 area?

17 PETER ALTER: All the indications we have
18 here is that they have swapped over to injecting fresh
19 water into the three reactors that were operating. We
20 need a chemist to talk about how much that's going to
21 reduce the salt content; but you've got to remember that
22 that salt, if it was within the reactor and the areas
23 that it was in dried out at any one point in time, that
24 salt would start not only to crystalize, but the heat
25 would cause the crystals to collapse.

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1 So it might be very difficult to dilute the
2 salt on the surface to start washing it away. And salt
3 is either helping or hurting depending upon where it
4 is with respect to the core. But in any case, it is
5 interfering with proper pressure and level
6 instrumentation readings, and injection through small
7 sized nozzles.

8 ALEX ARANI: If the bleed and feed process
9 is by injecting water into the reactor pressure vessel
10 and removing steam, that is unlikely to reduce the salt
11 content of the entry (phonetic) that is currently residing
12 within the pressure vessel.

13 PETER ALTER: That's correct, depending upon
14 how they're putting the water in and how it's getting
15 to the source of energy to create steam.

16 ALEX ARANI: Okay. What we'd like to do,
17 perhaps we would like to discuss that further to see
18 what possible means are. That does have a caveat that
19 the pressure vessel has not been breached and we are
20 not losing water from the pressure vessel.

21 PETER ALTER: I'm looking at the 5:00. I
22 actually came with the 5:00 Greenwich meantime IAEA report
23 for today, and the graph for unit 1, 2 and 3, reactor
24 pressure versus containment pressure, as far as trend's
25 concerned, reactor pressure is building or, yes, it's

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1 getting bigger in unit 1.

2 But reactor pressure remains really close
3 to containment pressure in units 2 and 3. And, within
4 the accuracy of the measurement, that's around one
5 atmosphere in both cases for 2 and 3. Okay.

6 ALEX ARANI: We surmise from that that there
7 is no pressure vessel integrity.

8 PETER ALTER: You suspect it. The accuracy
9 of the instrumentation is suspect, and the pressures
10 of both; actual differential pressure between the reactor
11 vessel and the reactor building, where the instrumentation
12 is, and between primary containment and the reactor
13 building where the same instrumentation is.

14 So without knowing what it looks like at
15 the instrumentation rack, and whether or not those lines
16 have been flushed clear of any interference, such as
17 caked salt, any instrumentation person will tell you
18 that those numbers are suspect.

19 ALEX ARANI: Thank you. Okay, any --

20 PETER ALTER: But they're good for trend.
21 You've got to admit that. Even it's a bad reading,
22 if it's changing, it's telling you that it's either going
23 up or going down, and if it's not changing it's telling
24 you that things are not then pressured and levels are
25 not changing. That's the only think I would ever draw

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1 from that.

2 ALEX ARANI: Okay. Thank you for that. We
3 at U.K. exhausted the questions for today, and I found
4 the conversation again very helpful. I take it that
5 people would like to continue with the conversation again
6 tomorrow at the same time?

7 DONALD COOL: Yes, I believe that's correct.
8 So the same time tomorrow, which is 9:30 a.m. here in
9 the U.S. East Coast, and the corresponding times depending
10 on whether you've gone to Daylight Savings, et cetera,
11 et cetera, in the U.K. and France.

12 ALEX ARANI: Yes, we have. In the U.K.,
13 in Europe, we have now gone to the Daylight Saving hours.

14 DONALD COOL: Okay. I know we in the U.S.
15 have always been a bit different so for a week or two
16 I don't even attempt to figure it out until everything's
17 settled back down.

18 ALEX ARANI: Okay. Hopefully we should be
19 in a settled position at this point. Can we just go
20 around the bridge then to see everybody is happy to join
21 us tomorrow? Canada?

22 ALIO ARZETI: Yes, we'll be there tomorrow
23 morning.

24 ALEX ARANI: Okay. Are you attend France?

25 FRANCE MALE PARTICIPANT: Yes, okay for

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1 tomorrow, yes.

2 ALEX ARANI: That's right. Thank you very
3 much.

4 ALIO ARZETI: Okay. Just before we go, to
5 clear up this time, what time do you think it is in the
6 United Kingdom?

7 ALEX ARANI: This is one of the things we
8 know. We started this conversation at 2:30 United Kingdom
9 time.

10 ALIO ARZETI: Five hours, okay.

11 MALE PARTICIPANT: Okay.

12 DONALD COOL: Yes, very good.

13 MALE PARTICIPANT: Thank you.

14 ALEX ARANI: Night-night. Bye-bye.

15 ALIO ARZETI: Okay, bye-bye.

16 MALE PARTICIPANT: We have to get the
17 (inaudible) to change.
18

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1 (CONFERENCE CALL INITIATED)

2 0%U-#14615365094

3 FEMALE PARTICIPANT: -- figure out why the

4 --

5 (Crosstalk)

6 SECOND FEMALE PARTICIPANT: We remember we
7 had a couple of calls that we had chronicled --

8 FEMALE PARTICIPANT: Of course not.

9 MALE PARTICIPANT: I don't think I've said
10 that. Yes, I'm going to be here for a couple of rounds
11 yet.

12 FEMALE PARTICIPANT: -- the chronology so
13 -- (inaudible).

14 SECOND FEMALE PARTICIPANT: Oh, okay.

15 FEMALE PARTICIPANT: There's that --

16 (Crosstalk)

17 AUTOMATED MESSAGE: Welcome to the
18 conference calling center. At any time during this
19 message --

20 FEMALE PARTICIPANT: This --

21 AUTOMATED MESSAGE: -- please enter your
22 pass code followed by the pound sign.

23 (Crosstalk)

24 FEMALE PARTICIPANT: -- as far as comments
25 in the Japan Embassy, requests for (inaudible),

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1 complication specifications (inaudible) 50 mile
2 (inaudible) --

3 AUTOMATED MESSAGE: Your pass code has been
4 confirmed.

5 FEMALE PARTICIPANT: -- we did provide that.

6 AUTOMATED MESSAGE: If you need technical
7 assistance --

8 FEMALE PARTICIPANT: That's done.

9 AUTOMATED MESSAGE: -- during your call,
10 press star zero.

11 FEMALE PARTICIPANT: It did get changed in
12 here --

13 AUTOMATED MESSAGE: After the tone, please
14 state your name --

15 FEMALE PARTICIPANT: That was --

16 AUTOMATED MESSAGE: -- followed by the sign.

17 FEMALE PARTICIPANT: -- it wasn't requesting
18 permission to do so and went to the liaison --

19 DOUG COE: This is Doug Coe. It's the NRC
20 Protective Measures Team.

21 FEMALE PARTICIPANT: -- (inaudible)
22 provided to the Embassy. That's the (inaudible) call.

23 AUTOMATED MESSAGE: After the tone, please
24 state your name followed by the pound sign.

25 DOUG COE: This is Doug Coe with the NRC

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1 Protective Measures Team.

2 AUTOMATED MESSAGE: There are five parties
3 in conference including you.

4 (Crosstalk)

5 DOUG COE: Yes, hi. This is Doug Coe with
6 the NRC Protective Measures Team.

7 AUTOMATED MESSAGE: Is now joining.
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1 (CONFERENCE CALL INITIATED)

2 0%U%RQDL15365094

3 FEMALE PARTICIPANT: -- (inaudible) 56 --

4 4509.

5 MALE PARTICIPANT: They were there trying
6 to get approved and the chairman (inaudible) from Japan.

7 (Crosstalk)

8 AUTOMATED MESSAGE: Welcome to the
9 conference center. At any time during this message --

10 (Crosstalk)

11 AUTOMATED MESSAGE: -- please enter your
12 pass code followed by the pound sign.

13 MALE PARTICIPANT: I don't think they can
14 call the room too.

15 FEMALE PARTICIPANT: 5628.

16 AUTOMATED MESSAGE: Your pass code has been
17 confirmed. If you need technical assistance during your
18 call, press star zero.

19 (Crosstalk)

20 AUTOMATED MESSAGE: After the tone, please
21 state your name followed by the pound sign.

22 DONALD COOL: NRC Protective Measures Team.

23 AUTOMATED MESSAGE: There are 14 parties
24 in conference including you.

25

26

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3 SCOTT HUDSON: Okay. Hello everybody.

4 Let's go ahead and get started. This is Scott Hudson
5 with the EPA. Currently I'm filling in for Ed Tupin.

6 He's been reassigned to some other duties up here, at
7 least for today. So I'm going to my best back-up to
8 hear our daily 2:00 call. Hopefully everybody got the
9 agenda earlier in the day and the attachments for the
10 things that we'll look at.

11 Real quick, why don't we go ahead. I'll
12 mention who's in the room first and then we'll go around
13 on the phone. I've got Darrell Liles, Julian Preston
14 --

15 JULIAN PRESTON: Julian Preston.

16 SCOTT HUDSON: Thank you. Michelle
17 Burkhill (phonetic) and myself, Scott Hudson. Who else
18 is on the line?

19 PAUL SHARP (phonetic): This is Paul Sharp
20 from the CDC.

21 DONALD COOL: This is Donald Cool and Sandra
22 Wastler from NRC's Operations Center Protective Measures
23 Team.

24 SAM KEITH: Sam Keith from CDC.

25 LYNN EVANS: Lynn Evans CDC and we have some

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1 others in the room from CDC. I'll let them introduce
2 themselves.

3 MIKE BROOKS: Mike Brooks.

4 GERI ANDERSON (phonetic): Geri Anderson.

5 MALE PARTICIPANT: (Inaudible).

6 DON SHARP: Don Sharp.

7 PETE PETCH: This is Pete Petch from APHIS,
8 USDA.

9 SCOTT LOUGH: Scott Lough from the USDA.

10 MR. ALLEN (phonetic): (Inaudible) Allen,
11 Food and Drug.

12 KAREN SMALLWOOD: Karen Smallwood, Food and
13 Drug.

14 RACHEL EVANS: Rachel Evans, Food and Drug.

15 SCOTTY HARGRAVE: Scotty Hargrave, Food and
16 Drug.

17 EPSOON SECK (phonetic): Epsoon Seck, Food
18 and Drug.

19 SCOTT HUDSON: Have we gotten to USDA yet?
20 (Crosstalk)

21 MALE PARTICIPANT: Yes, I'm (inaudible).

22 FERRIS BUSCHA (phonetic): I'm Ferris
23 Buscha.

24 MALE PARTICIPANT: -- everybody.

25 GORDON CLEVELAND: It's Gordon Cleveland,

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1 USDA, APHIS.

2 PATRICK SIMMONS: Pat Simmons and Randy Howe
3 from Customs and Border Protection.

4 MALE PARTICIPANT: (Inaudible) Management
5 Home Team.

6 JANIS MCCARROLL: This is Janis McCarroll
7 from FEMA Response.

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3 COLLIN COTTER (phonetic): Collin Cotter
4 from the CM home team.

5 (Crosstalk)

6 MALE PARTICIPANT: -- onlookers.

7 SCOTT HUDSON: Okay, anybody else? All
8 right. Well, if anybody joined late, you know, feel
9 free to just jump right in. On our agenda, we've got
10 five or six bullet points. I had a couple of last minute
11 ones. We'll address those at the end.

12 The first one we're talking about final
13 product status or two animals (phonetic) that are on
14 our plate right now. A proposal for the Customs and
15 Border Patrol on how they're going to scan potentially
16 contaminated cargo, and a second item is the reentry
17 paper; basically guidance for folks still in Japan
18 reentering the evacuation zone.

19 So if it's acceptable to everybody, we'll
20 go ahead and talk about the Customs and Border Patrol
21 proposal first. I'll get a real quick update and then
22 we can have some conversation about that.

23 Over the weekend, the last call we had on
24 this was Friday. We had talked about some technical
25 questions about our analysis. We also had some

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1 uncertainty about the sort of starting point for
2 acceptable level of contamination, if you will, whether
3 it was going to be the 4 becquerels per square centimeter
4 or if it was going to be the .4. And, after
5 some discussion, it sounded like we were revising our
6 advice for a PRD value from 4 down to something much
7 lower. And it ended up, from the version that I last
8 saw, being as 1. Yesterday, during the day here at
9 Edward Hillstein (phonetic), we're out to finalize our
10 version of that guidance, so it's to measure it, it's
11 to look at and ask for concurrence on that.

12 That seems to have gone through, so right
13 now what we have is that burden that you have. It's
14 the 3-27-11 cargo screening guidance that basically
15 talks about the technical basis for the initial A-team
16 proposal.

17 (b)(5)
18
19

20 And that basically is a nuts-and-bolts of
21 the Customs and Border Patrol proposal from the
22 perspective of the EPA. Does anybody want to have any
23 discussion about that? I know that certainly, you know,
24 that number is not the number that was (inaudible) during
25 the week according to my information.

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1 PATRICK SIMMONS: Well, this is Pat Simmons
2 from Customs and Border Protection, by the way. It's
3 not Customs and Border Patrol.

4 SCOTT HUDSON: Oh, I'm sorry.

5 PATRICK SIMMONS: That's all right. So,
6 just to kind of clarify things, this recommendation
7 is not CBP's recommendation. So it's not CBP's proposal.
8 It's guidance that's offered to us by others. And just
9 to set the record straight, at a 1 or higher, we always
10 adjudicate, always have.

11 The reason that we were asking for a higher
12 release level was that, for sampling purposes, to let
13 it go into the stack, we were asking for a 3. That's
14 boat side, or ship side. Once the container goes into
15 a stack, before it leaves the terminal, it goes through
16 radiation portal monitors where it's checked yet again.

17 So I just wanted to clear up that
18 misconception, but the guidance as it reads is fine.

19 Do you understand, everybody?

20 RON GRAHAM: Okay. This is Ron Graham with
21 USDA FSIS, and so we went from a 4 to a 1. Was that
22 based on the science? I guess what I was (inaudible).

23 How did it go? I mean we've looking at this guidance
24 for almost, you know, several days now, and it went
25 from a 4 to a 1. Why is that? Why has the science changed?

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1 SCOTT HUDSON: This is Scott at the EPA.

2 After further analysis, looking at potential level
3 of contamination, and the conversation on Friday where
4 there was really no latitude given for the potential,
5 you know, the levels of contamination from the perspective
6 of DOT as I recall the conversation.

7 The advice we're being asked to give
8 conflicted with both the NC standards, as well as DOT
9 numbers. And so we simply, you know, to make a
10 recommendation to the EPA administrator, that we allowed
11 numbers that were not being supported. There was no
12 latitude being given. It was kind of a non-start.

13 RON GRAHAM: I don't understand. You say
14 there was no latitude being given by who?

15 MALE PARTICIPANT: Department of --

16 SCOTT HUDSON: Department of
17 Transportation.

18 RON GRAHAM: All right. So we were not
19 asking their permission, nor were we using their guidance
20 or their name. We were simply using their standards
21 as a baseline to put our own stuff into action. We
22 weren't asking for their regulations or anything.

23 MALE PARTICIPANT:

24 (b)(5)
25

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(b)(5)

MALE PARTICIPANT: They required you to
(inaudible).

SAM KEITH: Scott, this is Sam Keith.

SCOTT HUDSON: Hi, Sam.

SAM KEITH: I haven't had a chance to really
look over this since I finished it on Friday, but you've
added an interesting set of radionuclide groups which
push toward the transuranics.

SCOTT HUDSON: Yes.

SAM KEITH: And then I think Darrell
provided a printout indicating that there are
transuranics in the mix. Can you speak to that and
whether these values are focusing on what is in the
yellow or outside the yellow?

DARRELL LILES: Yes. Sam, there's no
transuranics -- this is Darrell by the way. There's
no transuranics in the mix that we've seen outside the
reactors. Anything that's been -- that NRC RASCAL,
source term to use, they use got (phonetic), is not
what we've seen on samples outside that zone.

SCOTT HUDSON: Sam, are you making reference
to the fact that on the NC standards that we included
in the proposal, it has release levels for several

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1 different nuclides? That's just the guidance. That's
2 just the empty standard.

3 SAM KEITH: What did EPA derive the value
4 of 1 on? Which of the four lines in Table 1?

5 RON GRAHAM: And where are the relief levels
6 for iodine?

7 DARRELL LILES: Yes.

8 SCOTT HUDSON: Right. Yes, looking at
9 levels for iodine, based on the calculations in Table
10 2, we felt like, you know, that even at level 1 there's
11 a possibility that those dpm readings, for looking at
12 iodine, is going to be iodine number underneath the
13 PRD level of 1, you know, about 176,000.

14 And that's, you know, we have no idea over
15 what areas that's spread out but it potentially could
16 be a small sort (phonetic) less than 100 square
17 centimeters. Then again, your contamination level is
18 potentially above the group 3 limit even on the empty
19 standard, and certainly above the DOT numbers. So it's
20 --

21 SAM KEITH: Yes, the DOT number for iodine
22 was 24,000, and this is 60,000. So what's the reason
23 for moving from the DOT value to the NC value?

24 SCOTT HUDSON: An NC value is just given
25 as, you know, a slightly higher number that's out there

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1 that's being recommended by an expert group that's germane
2 for the situation. It is guidance for contaminated
3 packages, items, that sort of thing. Whereas the DOT
4 number is, you know, it's non-isotope specific and is
5 basically a practice as usual number.

6 DARRELL LILES: Sam, I don't think relative
7 to --

8 RON GRAHAM: Something worth mentioning
9 is at the service screening that ANSI uses is for total
10 contamination, where the DOT number is removable.

11 SAM KEITH: Well we should probably assume
12 that all of this is removable since it was an airborne
13 thing and a mix, as opposed to something pressed down.
14 I think there should be an equivalence there.

15 PATRICK SIMMONS: Not necessarily;
16 something went in airborne and get sick (phonetic).

17 SCOTT HUDSON: Well, we could certainly
18 discuss, you know, the chemistry and the reactions,
19 but I think at the core of the matter, what we're being
20 asked by Customs and Border Protection is can we make
21 the recommendation for a higher screening level.

22 And, just based on our analysis here on
23 this end, we feel kind of constrained by the numbers
24 that exist in DOT regulations, or at least the highest
25 that anybody here was comfortable with going with was

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1 the ANSI standard, the 13.12, where if we're talking
2 about iodine, we're talking about 60,000 dpms per 100
3 square centimeters. And that technical analysis there,
4 that Table 2 shows that even with a PRD reading of 1,
5 we're still potentially exceeding that.

6 PATRICK SIMMONS: Yes, but that would be
7 understandable if we're seeing anything at all over
8 and above background. Anything that we've seen to date
9 has been a little bit above background. As a matter
10 of fact, hovering so close to background that we can't
11 even identify it with our risks.

12 PAUL SHARP: Yes, this is Paul Sharp, CDC

13 --

14 PATRICK SIMMONS: So it's kind of, you know,
15 a little bit restrictive.

16 PAUL SHARP: Yes, this is Paul Sharp, CDC.

17 If I'm reading Table 2 right, a setting of 1 is only
18 giving you maybe (inaudible) background. It looks like
19 it's, you know, 15 MicroRs per hour for the 125,000
20 dpm. And, I could see Customs' issue with that.

21 PATRICK SIMMONS: You know, and not only
22 that guys, but like I've explained on every call, if
23 I wear my PRD in my home and walk past the granite counter
24 tops, I get a 3, every day. And all 49 of my kids with
25 six eyes are doing fine.

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1 DARRELL LILES: Yes, for what it's worth
2 the 60,000 dpm per 100 square centimeters, that equates
3 to about 3 micro-curies per square meter. And, that
4 3 micro-curies, I mean if you did have extensive
5 contamination over a square meter, that 3 micro-curies,
6 that's the alley for I-131.

7 PAUL SHARP: Well, that's in (inaudible)
8 it a 6 contamination. Assuming it's 6, you know, nobody's
9 going to be breathing in a container.

10 DARRELL LILES: Yes, well it depends on
11 the surface and about how much of it's actually going
12 to be re-suspendable (phonetic) or not.

13 (Crosstalk)

14 PAUL SHARP: Well that's good, but I mean
15 if you've got to assume this is all removable, then
16 it's another whole issue, but I say there's got to be
17 a little bit of leeway in here. Otherwise, I mean they're
18 going to be, every one of these container ships, you
19 know, if it has got, you know, something happened like
20 here a couple years ago with the clay pots or something
21 coming in, you're going to be doing all kinds of crazy
22 things.

23 PATRICK SIMMONS: So let me just explain
24 what's going to happen. We have a ship right now in
25 California. It's got 2,700 containers coming in from

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1 Japan. Guarantee you, they're all going to hit for
2 some level of contamination at the front gate. If,
3 in fact, we go with this guidance, this guidance will
4 effectively close down the port.

5 So if you're willing to do that, and if
6 you're willing to take the heat on that and be able
7 to explain it, because we're going to throw it right
8 back and you'll say well, this was the guidance that
9 we were given, then so be it.

10 RON GRAHAM: This is Ron Graham from FSIS.

11 I agree with that. We were on a call with CBP this
12 morning with our import inspector folks, and you know,
13 they've simply said this 1 routinely goes off throughout
14 the day. So, that's effectively what we're going to
15 be doing also, out there in the territories, is shutting
16 down areas, stores, everything because one, we don't
17 have the people coming to investigate this.

18 But if these things are going to routinely
19 go off at 1, then we might not even keep them with this
20 and, I don't know, is CBP on the phone right now? Someone
21 needs to talk to CBP because --

22 PATRICK SIMMONS: This is CBP. This is Pat.

23 I was on the phone with you this morning.

24 RON GRAHAM: Right, yes. So, I think CBP
25 really needs to look at this closely because if this

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1 is a scientific answer, I mean I guess we have to kind
2 of figure that out. If it's a political answer then
3 we need to know that too, because we're going to
4 essentially be shutting down also a lot of stuff.

5 You know, we were told that if you walk
6 by someone with radiation medicine in them, that's going
7 to trigger it. But how do we know what is triggering
8 it? We're going to have to shut the area down because
9 we don't know what's triggering it, but if it's just
10 routinely triggering at stuff.

11 PATRICK SIMMONS: If you walk past somebody
12 who has had a medical treatment, you'll only get a 6
13 or a 7, and we routinely let those people walk through
14 our ports of entry every day. So I really, really suggest
15 that we take a look at this. Is Pat Donaghy (phonetic)
16 on the phone yet?

17 PAT DONAGHY: I just signed on so I'm
18 listening to what you have to say.

19 PATRICK SIMMONS: All right, Pat, the new
20 guidance is they're saying anything with a PRD reading
21 of 1 needs to go back for reach back. Pat, what kind
22 of impact is that going to have on the commerce? You
23 got some numbers for me?

24 PAT DONAGHY: Well, essentially that's
25 going to hit everything coming in, most of it. I'd

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1 say 50 percent of what we see come through is going
2 to be hitting on a 1. But I think from Friday's meeting,
3 I thought we were talking a 3 as far as initial screening,
4 and that was putting us somewhere in a risk base of
5 dose rate of 60 MicroR per hour. I mean that
6 was the guidance that typically we put out initially
7 was a firm dose rate number so we could do a risk-based
8 comparative analysis on it.

9 PATRICK SIMMONS: And that's the numbers
10 that went out after we all agreed on Friday. What we
11 have to stop doing is second and third guessing ourselves
12 and coming up with different numbers, putting it out
13 to the fields and then giving them conflicting guidance.

14 And what Pat was just saying about 50 percent
15 of the containers, that's 50 percent of the environment,
16 not 50 percent of the containers coming from Japan.
17 That's 50 percent of all 11 million containers that
18 come into the sea ports each year, hit at a 1 or above.
19 That's perfectly normal, a 1 is perfectly normal.

20 PAUL SHARP: These PRDs were not designed
21 to measure contamination, and we cannot advise you guys
22 on something that might potentially violate existing
23 regulations.

24 PAT DONAGHY: This is Pat Donaghy again.
25 People coming to the country in this particular case,

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1 it's a unique case, and I don't know if they would fall
2 under existing criteria because I don't know of any
3 criteria out there that's looking at circumstances that
4 we're seeing now with people coming in from a nuclear
5 accident, you know, 12,000 miles away.

6 I think what we were trying to do is do
7 a risk base, looking at PRD, just to use for screening
8 purposes with a follow-up action which our officers
9 have a con-ops (phonetic) that they follow where they
10 take a sodium iodide detector, and we can then look
11 at a surface measurement.

12 We've got some CDC values on people of some
13 dose rate numbers that were based on risk base and
14 contamination, based on a reading by a RID and MicroR
15 per hour. And using that kind of methodology, you can
16 then, therefore, do a risk-based analysis and you don't
17 have to worry about trying to wipe and swab, and looking
18 at surface measurements, and you don't have a reference
19 tool to refer it back to a dose rate.

20 So, that's kind of where we've been
21 explaining to people coming in to the U.S. that once
22 we know the milligram per hour and we're keeping it
23 low a certain threshold, and we can then relate that
24 to a comparative risk estimate to calm them down once
25 they know that they have some type of contamination

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1 on them.

2 SAM KEITH: This version is a bit different
3 than what we had on Friday. What happened on Friday
4 was we had gone with sort of a standard surface area
5 and assumed uniform contamination over that surface
6 area. It appears that what we have in front of us is
7 assuming activity on, oh what is it, 100 square
8 centimeters or 1? I'm not sure what without any
9 contamination beyond that.

10 DARRELL LILES: Sam, there's no information
11 about the possible area of contamination. It's simply
12 assuming a strength of the source based on the MicroR
13 per dpm number.

14 SAM KEITH: Yes, that's what I was thinking,
15 and since the contamination is per centimeter, unless
16 you start assuming a certain size of container, I'm
17 not sure we're going to be able to say there's an
18 equivalence here.

19 I would propose that we go back and look
20 at more surface area, which this is, and keep in mind
21 that the larger the surface that's contaminated at this
22 same level, the higher the response is going to be on
23 the CCM (phonetic) iodide detector, which isn't going
24 to really care where the gamma ray comes from.

25 So the larger area we have contaminated,

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1 the more sensitive the response is going to be, and
2 the more we would overestimate what the contamination
3 might be. I would really think that we would want to
4 go back and look at some minimal surface area rather
5 than the point activity source at one location.

6 DARRELL LILES: Sam, that instrument has
7 a very limited field of view at .5 centimeters.
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1 (CONFERENCE CALL INITIATED)

2 0%U-(19615365094

3 JOHN CORTINAS: Okay. So I know we have
4 John representing NARAC, I think, and Doug joining us
5 from NRC. Is that correct?

6 DOUG COE: That's correct, Doug is here.

7 FEMALE PARTICIPANT: But --

8 JOHN CORTINAS: Okay. So if I look at the
9 email that was forwarded from Steve (phonetic), it looks
10 like this may be the people that we need to make sure
11 are on the call. Is that your understanding?

12 (Crosstalk)

13 MIKE (phonetic): This is Mike --

14 JOHN CORTINAS: The DOE people I guess.
15 I wanted to make sure we're not waiting for anyone else.

16 JOHN NASSTROM: Guys, this is John Nasstrom.
17 I was expecting someone from DOE headquarters but --

18 JOHN CORTINAS: Okay.

19 JOHN NASSTROM: Because I think they're
20 the ones who sent out the conference call number.

21 JOHN CORTINAS: Okay. I sent out the
22 conference call number actually.

23 JOHN NASSTROM: You did? Okay.

24 JOHN CORTINAS: So I just thought, again,
25 so when Steve sent his email, that was sent to the NIT

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1 (phonetic) I guess. Who would that be involved in,
2 or would that be --

3 JOHN NASSTROM: It could be any one of a
4 number of people.

5 JOHN CORTINAS: Okay.

6 JOHN NASSTROM: I guess let's just talk
7 and then we can see where we can get, and then we can
8 call DOE headquarters afterwards if they don't come
9 on.

10 JOHN CORTINAS: Well again, things are
11 moving fast and furious, and again my name is John Cortinas.

12 We do have a couple of other people from NOAA on the
13 line so let me go ahead and let them introduce themselves
14 and their affiliation within NOAA.

15 ARICHA ROMERA (phonetic): Okay. This is
16 Aricha Romera. I'm filling in for Henrik Dohlman here
17 at the Marine Modeling and Analysis Branch at the MCN
18 set (phonetic).

19 ROLAND DRAXLER: Roland Draxler from the
20 Air Resources Laboratory.

21 JOHN CORTINAS: And then again myself, John
22 Cortinas from the OAR's Office of Weather and Air Quality
23 Research. Okay, so again, thanks guys for joining us.

24 As was mentioned in the emails exchanged with Steve
25 Find (phonetic) and other folks, there's a real interest

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1 on NOAA's behalf of trying to get some of the data sets
2 that are being generated by DOE for the radionuclides,
3 primarily deposition into the ocean.

4 We have been working within the agency,
5 within NOAA, to pull together some capabilities that
6 would provide some estimates of the dispersion and
7 movement of those radionuclides in the ocean. Now while
8 our models themselves don't explicitly predict that
9 information, we do have the capability to do some particle
10 tracing to look at what happens to those particles as
11 they're deposited into the ocean.

12 And so, some of the critical information,
13 obviously, that we were looking for are these estimates
14 from DOE, being that DOE is the lead and the official
15 agency associated with producing those estimates. If
16 we would be able to get access to those data sets that
17 go beyond just simple graphics that have been distributed
18 to date.

19 That's really it in a nutshell, and we were
20 trying to get a sense from DOE of the feasibility of
21 that, what kind of information and data we may be able
22 to obtain and begin that conversation.

23 JOHN NASSTROM: Yes, so I can maybe comment
24 a little bit. This is John Nasstrom at NARAC. You know,
25 to date, no one has a really good handle, I think everyone

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1 knows, on the source term. There's quite a few
2 measurements taken on land that we're in the process
3 of comparing to models and seeing if we can use that
4 to calibrate the source term.

5 But there's very, very few measurements
6 over the water. There's a few very early from the Navy,
7 but they're very sporadic, and there's some more. I
8 think the Japanese are going out and doing some sea
9 sampling and also measuring air contamination at the
10 same time.

11 We haven't gotten that data yet. But that's
12 the type of data I think you're probably going to want,
13 since any model projection is going to have to be based
14 on some very hypothetical source terms right now,
15 especially for any material that's transported over
16 water which may have been the majority.

17 So, that's kind of my initial thoughts on
18 it and I guess it'd probably be worth kind of trying
19 to figure out what the time frame is for the NOAA work
20 and what regions you're looking to model. Are you trying
21 to model the coast of Japan, or a larger area?

22 ARICHA ROMERA: What we have is we have
23 actually a global model which is 1/12 degree resolution.

24 So, it's around 8 to 9 kilometers on the other coast
25 of Japan. We do have some data from the Navy at a much

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1 higher resolution also near the coast of Japan, but
2 it remains to be seen as to whether the Navy will be
3 able to provide us that data on a regular daily basis.

4 But in terms of what we are looking for
5 is we're probably looking for focused areas around 200
6 to 3 kilometers out from the coast, and as John earlier
7 mentioned, we have the capability of running these tracer
8 particle codes after the model simulations or physical
9 simulations are over.

10 And even if the data which we get is not
11 well validated, I think we are well set to start doing
12 some waterscenarios. And, we've been doing some testing
13 on our own and the thing which we are most concerned
14 with is not only what's happening near the coast, but
15 also trying to see if, depending upon where these
16 radionuclides are being deposited in the ocean, there
17 is potential for some of them to enter, for example,
18 the (inaudible) and moving much quickly out into the
19 open waters of the Pacific which will probably be an
20 issue for the marinas.

21 JOHN NASSTROM: So when you say you're
22 running particle codes, are you looking at essentially
23 doing trajectories as opposed to --

24 ARICHA ROMERA: Yes.

25 JOHN NASSTROM: -- trying to --

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1 ARICHA ROMERA: Correct.

2 JOHN NASSTROM: -- at least for now, project
3 contamination levels?

4 ARICHA ROMERA: Right, that's right.
5 Using that we will have the capability of projecting
6 where the densities are, and using those, we can come
7 up with some estimates of concentration. So, but as
8 we point out, the big unknown right now is the source
9 and, you know, lately things have become complicated
10 because there's also the talk of a lot of runoff from
11 the nuclear reactor into the ocean.

12 But I haven't seen any measurements very
13 close to the coast yet. I've looked at some data coming
14 from the Japanese which is around 30 kilometers out
15 along a straight line where they have these eight stations
16 or eight places where I guess ships have been collecting
17 essential data and the amount of, you know, radio iodine
18 and cesium and they're doing this on a daily basis.

19 So we do have access to that data, but we
20 would like much more information and in a bigger area.
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1 (CONFERENCE CALL INITIATED)

2 0%U(LOI_15365094

3 SAM KEITH: So what surface area did EPA
4 use in this version?

5 SCOTT HUDSON: Actually that's your
6 calculations I believe that's on the table there.

7 SAM KEITH: I don't think so. I think what
8 we did was we changed from a 3 to a 1, but the surface
9 area, I think, component of the assessment I don't see
10 in here and so there must have been a decision to go
11 with a certain amount of activity in a certain size
12 area.

13 If we're looking at 60,000 dpm per 100 square
14 centimeters, or the most they did, the DOT is 24,000
15 per 100 square centimeters. If you just look at 100
16 square centimeters, you're going to an activity there.

17 If you look beyond it, you're going to have activity
18 contributing to the overall count too, even though it's
19 beyond a half-a-centimeter.

20 DARRELL LILES: Yes, Sam, this is Darrell
21 again.

22 SAM KEITH: Yes.

23 DARRELL LILES: Those are definitely your
24 numbers, we just left off that 240 centimeters squared
25 or whatever --

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1 MALE PARTICIPANT: Yes.

2 DARRELL LILES: -- your constant was you
3 put in there.

4 SCOTT HUDSON: Yes, what's in Version 8
5 there, what you all actually have, all the area
6 calculations were removed and all of the references
7 to the DOT standard of either 24,000 or 2,400 dpm per
8 100 square centimeters were removed because we simply
9 don't have a solid relationship between field of view
10 of the PRD and the response.

11 And basically what's left is, we estimate
12 the certain amount of contamination based on the PRD
13 reading, and what this demonstrates is that even at
14 levels of 1, we are potentially higher than levels that
15 DOT is comfortable with.

16 During the call on Friday, I didn't hear
17 any latitude being given by the Department of
18 Transportation on contamination on surfaces of the
19 packages off of the transport. We could certainly talk
20 all day about is it germane to the situation right here,
21 but we need more information before we can justify a
22 higher PRD screening value.

23 MALE PARTICIPANT: This is --

24 PAT DONAGHY: This is Pat Donaghy from CBP.
25 I'm looking at the table on the PRD readings versus

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1 the contamination readings. At 15 MicroR per hour,
2 we're looking at 125,000 dpm. Is that per 100 square
3 centimeters?

4 SCOTT HUDSON: Again, those are not
5 calculations based on any area. They're just back
6 calculated based on the dose rate that's given for the
7 PRD and a sensitivity for either isotope of Cesium-137
8 or Iodine-131 and those are the numbers that are in
9 the second column.

10 PAT DONAGHY: But I guess I'm trying to
11 refer it back to what we do have in place for regulations,
12 for like the DOT, where you have a set surface area
13 defined.

14 SCOTT HUDSON: Oh, right, yes. In Table
15 1 there, those are the 6,000 for cesium or the 60,000
16 for iodine. Those are the standards, you know, dpms
17 over 100 square centimeters. As for the items in Table
18 2, that's just the potential amount of contamination
19 spread over any area. If the PRD can see it, then it's
20 going to correlate to that PRD value.

21 PAT DONAGHY: So we're actually looking
22 at a much wider surface area of contamination than what
23 the standard is actually defining, is that correct?

24 SCOTT HUDSON: Well, the question at this
25 point then is I don't have enough information on how

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1 responsive, how big an area the contamination has spread
2 over that the PRD reliably sees. I mean that's a geometry
3 question. We simply don't have enough information to
4 talk about how much area is being seen.

5 PAT DONAGHY: Well if we look at what the
6 defined surface areas are based on a pancake probe or
7 Frisker, you're looking at roughly a 20 square centimeter
8 surface area on the detector face, and there's factors
9 you build into the detection then based on that type
10 of instrument.

11 We have a GR-135 that has a similar detector
12 face area, so why wouldn't we be able to use the 100
13 centimeter square surface dimension there and correlate
14 that to the surface area measurement on the GR-135 that
15 we use in the field as a follow-up action after we use
16 the PRD just as a screening measurement?

17 SCOTT HUDSON: Well, I think that's
18 consistent with the guidance as it currently stands.

19 It basically said we can launch terms on a PRD level
20 of 1 or higher if further investigation is warranted.

21 PAT DONAGHY: So Pat, I think what we might
22 be able to do is, I mean whether we get a 1 or a 2 on
23 the PRD, don't we usually follow that up with a GR-135
24 measurement anyway?

25 PATRICK SIMMONS: Yes, Pat, we do. The

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1 problem is, is that when we have, and what these gentlemen
2 on the phone don't understand, and I understand that,
3 is the fact that if we have thousands of containers
4 trying to get out of the port of entry, we are going
5 to stop commerce.

6 And I want to make sure that everybody is
7 buying into that before they hang up the phone, because
8 when the calls start coming, I'm going to refer every
9 call back to this group and say this is what the group
10 decided. And this is going to be huge. Don't think
11 it's going to be small, it's going to be huge.

12 PAT DONAGHY: Well, it also makes a lot
13 of the packages problematic because using such a low
14 reading, we don't really know whether the contamination's
15 going to be on the outside, or whether or not it's actually
16 coming from the inside, which now gets us into kind
17 of like a twilight zone area here as to what actions
18 to take based on this limit, because it's going to be
19 very restrictive.

20 PATRICK SIMMONS: With PRD --

21 SCOTT HUDSON: Couldn't you simply take
22 a swipe over 100 square centimeters on any packages
23 --

24 PATRICK SIMMONS: We don't take that swipe.
25 We don't use swipes. We use a PRD or a RID, not a swipe,

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1 and I think, you know, that might be causing some confusion
2 as well. When I read the swipe in there, we don't use
3 swipes.

4 SCOTT HUDSON: All right, well I think the
5 only way forward is to, you know, seek some sort of
6 waiver or latitude from DOT, because the numbers, the
7 recommendation that we've got is based on a somewhat
8 liberal interpretation of what the PRD values can see
9 and the DOT numbers as they stand in the regulation.

10 I simply don't know how to make a recommendation to
11 you that is going to be in excess of the Department
12 of Transportation regulations.

13 PATRICK SIMMONS: Is anybody from the DOT
14 even on this call, or --

15 JIM (phonetic): Yes, I'm here. It's Jim
16 at DOT.

17 PATRICK SIMMONS: Okay. So, this is
18 consistent with your guidance and you're willing to
19 stand behind that?

20 JIM: Well we were willing to take a look
21 at anything EPA would recommend. Actually we have a
22 special permit process. We could --

23 PATRICK SIMMONS: Oh.

24 JIM: -- basically write a permit that says
25 use anything that anybody recommends is appropriate,

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1 that provides an equivalent level of safety --

2 PAT DONAGHY: Well, I guess -- this is Pat
3 Donaghy again.

4 JIM: -- or is in the public interest, or
5 is in the national interest.

6 PAT DONAGHY: I was wondering, that DOT
7 limit of 240,000 dpm per 100 square centimeters, does
8 that have any kind of a dose base relationship?

9 PATRICK SIMMONS: No.

10 JIM: No, our contamination values are
11 strictly contamination values.

12 PAT DONAGHY: Okay. So, in --

13 (Crosstalk)

14 JIM: They were, but well, it's not cited
15 in the regulations, but it was dose based that the
16 contamination value is equivalent; equate to less than
17 100 milligram a year.

18 PAUL SHARP: Well this is Paul Sharp with
19 CDC. Yes, I've been looking through your regs, 49 CFR
20 173 and so on, and you've got regulations for a fired
21 surface or surface contaminated object and it comes
22 out to be 4 becquerels, well about 100 disintegrations
23 per second per square centimeter. And then you've got
24 --

25 JIM: What section are looking in?

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1 PAUL SHARP: 173.401.

2 JIM: .401?

3 PAUL SHARP: Yes. Well, I'm sorry, yes it's
4 49 CFR -- well no, this is -- yes.

5 JIM: 401 is just the scope section.

6 PAUL SHARP: Well, yes but this is the
7 non-fixed contamination on the accessible surface
8 averaged over 300 centimeters --

9 JIM: Oh, that's 403.

10 PAUL SHARP: What did I say?

11 JIM: 401 I thought.

12 PAUL SHARP: At any rate, I found it.

13 (b)(5)
14
15

16 JIM: Yes.

17 PAUL SHARP: And then later on you've got
18 200, and another one where you have the --

19 JIM: That's SCO I and SCO II --

20 PAUL SHARP: Yes.

21 JIM: -- where those things are at. Where
22 our definition starts is back at contamination. Go
23 to that one in 173.403.

24 PATRICK SIMMONS: Yes, that shows
25 contamination as .4 --

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1 JIM: That SCO I definition is the upper
2 band of SCO I, and SCO II is the upper band of SCO II.

3 PAUL SHARP: Yes, well I'm just trying --

4 JIM: The definition of contamination is
5 below our band of SCO I.

6 PAUL SHARP: Well I'm just trying to rectify.

7 See, I haven't been involved in this because I've been
8 doing other things at the CDC VOTs (phonetic). I just
9 came into this thing kind of late. We're just trying
10 to quantify it in my head why we're looking at
11 contamination limits when you also have a 200 MR per
12 hour surface dose rate. And --

13 JIM: Look for something that's marked and
14 labeled and transported as RAM.

15 PAUL SHARP: Okay.

16 JIM: It has labels on it. It's controlled.

17 PAUL SHARP: Okay. All right. That
18 answered that question then.

19 (Crosstalk)

20 JIM: In fact, if not, I mean where you
21 enter the transportation realm, and you'd have to start
22 marking, labeling HazCom.

23 PAUL SHARP: Yes.

24 JIM: For a solid object, it begins at the
25 definition of contamination.

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1 PAUL SHARP: Oh, okay.

2 SCOTT HUDSON: Hey, Jim? I heard you
3 mention a little bit about special waiver or special
4 procedure, something like that. Could you talk just
5 for a couple minutes about that. What's involved with
6 it? Is it even a possibility in this circumstance?

7 JIM: Oh, well I think it's a possibility.

8 It's going to be tough to write because who would it
9 be issued to and what? So anyway, in 49 CFR 107.105,
10 there's a special permit process. Basically there's
11 like 12 questions that have to be answered.

12 Somebody needs to submit it, and the long
13 story short, we were just kind of had a little, shall
14 we say, series of interviews with Congress on this one,
15 and they were requiring, you know, if you can't meet
16 the regulations, can you demonstrate there's an
17 equivalent level of safety somehow? You know, it has
18 to be submitted to us and we have to review, concur,
19 and we can issue one.

20 PAT DONAGHY: I think one of our issues
21 here is that EPA is looking at no information about
22 the field of view of the detector and PRD, and so they're
23 assuming that it's all under that very, very small area.

24 Perhaps the manufacturer has information. And also
25 I wondered if somebody might have available the RID

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1 technical manual that they could send me.
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(CONFERENCE CALL INITIATED)

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PAT DONAGHY: And the RID is the sodium iodide based, and then I think it has the larger detector than the cesium iodide unit.

RON GRAHAM: This is Ron. You all were talking just a little earlier about, I guess, detector size, is that correct? Or the size of detection, the area size?

PAT DONAGHY: I thought the EPA was just looking at a small area right under where the PRD would be sitting.

RON GRAHAM: Yes, I'm reading the manual for the F model, and I don't know if this is what this correlates to, but it does give a detector size which is 1.3 centimeters by 3.8 centimeters. That's not the unit size. It indicated it's a detector size. I don't know if that's what you all are looking for or not.

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3 MALE PARTICIPANT: Yes, because it scanned
4 it basically.

5 SCOTT HUDSON: Well, this is Scott again.

6 I basically am looking for ideas on ways to make progress
7 on this. We do have one possibility if we have this
8 sort of special waiver, you know, item. We might be
9 able to look into that if anybody is a DOT wiz on the
10 regulations, that would certainly help us on ways to
11 process that, but that sounds like that's a little bit
12 of a heavy lift.

13 And I think what we were hoping for was
14 something a little bit faster than that. Does anybody
15 else have any ideas or suggestions?

16 JIM: I mean, the DOT process isn't actually
17 too cumbersome. I've got one I'm working on right now
18 for Halliburton (phonetic) to be honest with you, and
19 stuck a sore (phonetic) staying in Louisiana. But in
20 some cases, effectively first you have to demonstrate
21 an equivalent level of safety.

22 Frankly, to me, that's a challenge. I mean
23 you basically have to demonstrate what you're proposing
24 is equivalent to meeting our regulations. There is a
25 final out for the national interest and that's beyond

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1 my paygrade.

2 (Crosstalk)

3 SCOTT HUDSON: Yes, is there anyone to talk
4 to about that? I think this is one of the circumstances
5 where we would be interested in exploring that.

6 JIM: You don't have to really talk to anybody.
7 You submit them. We get them all the time. For all
8 the hazard classes, trust me, we --

9 MALE PARTICIPANT: (Inaudible) national
10 interest one.

11 JIM: -- there's a whole department that
12 does it.

13 MALE PARTICIPANT: (Inaudible).

14 SCOTT HUDSON: Can you propose a
15 point-of-contact?

16 JIM: Well, ultimately for RAM it will be
17 me. It will just come back to me, but it has --

18 MALE PARTICIPANT: Well I'm sorry I asked
19 (inaudible) --

20 JIM: -- a group it has to go through. Ryan
21 Piquette's (phonetic) the supervisor, and effectively
22 I'll be the technical guy, or one of the other people
23 here, whoever gets assigned.

24 LYNN EVANS: Could that -- because that's
25 (inaudible) --

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1 PATRICK SIMMONS: Jim, we're talking about
2 --

3 JIM: But, actually I mean it's like I say,
4 I couldn't designate it as a national interest.

5 PATRICK SIMMONS: Now, who and how high in
6 DOT would that request for international interests waiver
7 need to go?

8 JIM: It all goes to the same place and it
9 just gets routed to a different person if you make that
10 case. I mean trust me, we get ten a day.

11 LYNN EVANS: Could this be expedited?

12 (Crosstalk)

13 MALE PARTICIPANT: Jim, who is the Assistant
14 Secretary to --

15 JIM: I mean the address, you just email
16 it to specialdepartments@dot.gov.

17 SCOTT HUDSON: Say that again, please?

18 JIM: specialdepartments@gov.

19 SCOTT HUDSON: Special departments, thank
20 you.

21 JIM: There's like 12 questions to answer.
22 Go to 49 CFR 107.105. They start off real easy, what's
23 your name and organization.

24 PAT DONAGHY: This is Pat Donaghy again.
25 Being an old power plant veteran, I know when we released

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1 people at the plants, we used to use the NRC guidelines
2 of 100 taps per minute over background using a Frisker
3 and we applied that to people and equipment. And what's
4 kind of interesting is this new document that came out
5 of NCRP, Number 161, and this was also proposed to us
6 by CDC and we had kind of adopted those numbers out of
7 Table 7.2 for dose clearances for people.

8 And in what we were talking today about
9 equipment, it seems like we're being more conservative
10 on clearing cargo and equipment than we are people.
11 If we go back and look at those numbers in Table 7.2
12 and 161.

13 JIM: Oh, one thing, let me add this. This
14 is Jim. I mean the only thing we have authority to regulate
15 is transportation and commerce. Now, we have no authority
16 to grant that relief to say, people who get it on their
17 clothes, or anything like that. We're just strictly
18 transportation and commerce, so that doesn't give you
19 clearance to just release it to the American public.

20 PAT DONAGHY: I understand, but I think if
21 we're looking at; this is kind of a unique situation
22 where we've already got some guidance in a
23 scientifically-based document and the CRP 161 for people,
24 and that's a dose base system with that criteria. Why
25 can we not apply that to non-person type of cargo and

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1 whatnot, equipment?

2 JIM: Well, I mean and for a DOT special
3 permit all you have to do provide -- you have to demonstrate
4 an equivalent level of safety or demonstrate a national
5 interest.

6 SCOTT HUDSON: Hey, Jim. Do you know who
7 the Assistant Secretary at DOT is?

8 JIM: John Pocari.

9 SCOTT HUDSON: Could you spell that last
10 name for me, please?

11 JIM: P-O-C-A-R-I. He already knows --

12 SCOTT HUDSON: Thank you, sir.

13 JIM: I think he told us already to be waiting
14 for one.

15 PATRICK SIMMONS: Hey, Jim, do the scope
16 of the DOT regulations for this is all packages, it's
17 just not just packages containing radioactive materials?

18 JIM: It's anything transported in commerce.

19 PATRICK SIMMONS: I got you.

20 JIM: I mean, if it does become contaminated
21 it's considered HazMat and then it's regulated by the
22 hazardous materials regulations. And I mean if my shoe
23 becomes contaminated, technically if I offer it for
24 transport on FedEx or any carrier, it's regulated in
25 transport.

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1 PATRICK SIMMONS: Okay. I'm just trying
2 to look for a loophole.

3 JIM: But we have no authority to say, well
4 that's fine for people to have in their homes or anything
5 like that. You know, once it's out of transport we have
6 no authority. Our special department is not applicable.

7 PATRICK SIMMONS: Sure.

8 JIM: You know, let's say you've delivered
9 the package. Let's say it's a sea-land and goes on a
10 truck. As soon as it's delivered and dropped on the
11 ground, our special permit's not effective. I mean
12 somebody else has to say, well it's okay to be sitting
13 there on that guy's property now. I mean we have no
14 authority once transport ends.

15 PAT DONAGHY: And I have some ideas on waivers
16 that I can share. Also, again does anybody have the
17 tech manual for the RID (phonetic)?

18 RON GRAHAM: Pat, I have those.

19 PAUL SHARP: Hey, Sam, this is Paul Sharp.

20 SAM KEITH: Yes.

21 PAUL SHARP: It's going to depend on what
22 brand because all our ideas are generic term. I mean
23 the Exploranium that we have --

24 SAM KEITH: Yes.

25 PAUL SHARP: -- is one.

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1 PATRICK SIMMONS: We use the Exploranium
2 GR-135 exclusively.

3 PAUL SHARP: Oh, okay.

4 SCOTT HUDSON: Yes, everything that I've
5 seen is a GR-135 first, which remains (phonetic) --

6 (Crosstalk)

7 PATRICK SIMMONS: Okay, except for what our
8 lab uses, and Pat, you use the Ortec, correct?

9 PAT DONAGHY: We use the Ortec, but the GR-135
10 is the workhorse, obviously as you stated. I think we
11 sent that information to Mr. Liles or Lills (phonetic)
12 --

13 PAUL SHARP: Did you?

14 PAT DONAGHY: -- Friday. I thought we sent,
15 we forwarded it actually. If not --

16 SCOTT HUDSON: We can look again through
17 the EOT email and see if it's there.

18 PAT DONAGHY: You know, if not I could provide
19 that do you.

20 PAUL SHARP: Yes, Sam, I've got the manual
21 for a 130 so I don't think they've changed much with
22 regards to the size. I think that was really where some
23 of software was changed to increase the number of channels
24 and the NCA. But I can stop by the office tomorrow on
25 the way in and pull that manual and bring it to the EOC.

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1 SAM KEITH: No, I won't be at the EOC.

2 PAUL SHARP: Oh, then I'll put in my mailbox.
3 Are you going to be at work tomorrow?

4 SAM KEITH: Yes.

5 PAUL SHARP: Okay, I can put it in my mailbox
6 down by the break room --

7 SAM KEITH: Sounds good.

8 PAUL SHARP: -- then you can pull it out.

9 SAM KEITH: Okay.

10 SCOTT HUDSON: All right. Well in the
11 interest of time, I'd like to give just a minute or two
12 for any sort of closing comments. I'm going to propose
13 that we, you know, sort of circle the wagons and try
14 to see what sort of progress we can make on this issue.

15 PATRICK SIMMONS: Okay.

16 SCOTT HUDSON: But right now, I don't know
17 that we're going to change our recommendation based on
18 this conversation.

19 PATRICK SIMMONS: So are you telling me right
20 now that is your recommendation?

21 SCOTT HUDSON: Right now, it's a draft
22 recommendation that is --

23 PATRICK SIMMONS: Draft recommendation?
24 Is it --

25 SCOTT HUDSON: -- for EPA.

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1 PATRICK SIMMONS: Okay. So draft
2 recommendation; somebody has to tell me that that's what
3 I need to follow. I'm still not getting that from anybody.

4 If it's draft, then I don't have to follow it. If someone
5 tells me that that's final, then I have to send it out
6 to the ports of entry and things are going to start happening
7 so I need to know what to do.

8 SCOTT HUDSON: Understood; it's still draft.
9 Until we get the way forward resolved we don't have
10 any way of changing that.

11 PATRICK SIMMONS: Okay, Patrick?

12 PAT DONAGHY: Yes.

13 PATRICK SIMMONS: So what'll happen now is
14 that the guidance that we had existing prior to this
15 stands, until we get a final --

16 PAT DONAGHY: Okay.

17 PATRICK SIMMONS: -- from this group.

18 SCOTT HUDSON: If there's someone I can
19 forward the technical specifications for the RID, if
20 somebody wants to give me a email message I'll make sure
21 that information gets out within the hour.

22 RON GRAHAM: And we're going with the one
23 level, is that correct?

24 PATRICK SIMMONS: No, CBP is going to go
25 with the --

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1 MALE PARTICIPANT: No.

2 PATRICK SIMMONS: -- guidance that we sent
3 out on Friday.

4 RON GRAHAM: With what? Okay, because I
5 need to give my people the same guidance, so we're not
6 --

7 PATRICK SIMMONS: I believe I sent that to
8 you this morning.

9 RON GRAHAM: Okay, so I'll use that one then.

10 PATRICK SIMMONS: Okay. Until we hear
11 differently, that's what we'll stick with.

12 RON GRAHAM: Okay. And I also submitted
13 a request through the email this morning to the advisory
14 team, so we need guidance on once we peak this level
15 and our alarms go off, what guidance do we give our folks
16 on clearing the area and trying to get someone to come
17 in and investigate and allow us reentry back into the
18 area?

19 SCOTT HUDSON: What are your current
20 procedures?

21 RON GRAHAM: Pardon?

22 SCOTT HUDSON: What are your current
23 procedures?

24 RON GRAHAM: We don't have any. We are not
25 normally a detection carrying group of folks.

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1 MALE PARTICIPANT: We don't have any for
2 radiation, that's for sure on NIT.

3 RON GRAHAM: I mean we're out in the middle
4 of someplace where there's not even a CBP person. You
5 know, are there points of contact out there where we
6 can go to and say, can you please come and clear the
7 area? We don't have these RID, R-I-D, devices that you
8 all talk about in this guidance on NIT.

9 If our alarm goes off, we have to clear the
10 area until someone can reopen the area again. But we're
11 very limited to what we have out there, so that's why
12 I'm asking the advisory team to provide us guidance on
13 how to do that.

14 (Crosstalk)

15 PATRICK SIMMONS: Where is your area?

16 RON GRAHAM: Samoa, Mariana Islands and
17 Guam.

18 PATRICK SIMMONS: Okay.

19 RON: U.S. Territory.

20 PATRICK SIMMONS: All right.

21 SCOTT HUDSON: Well, Pat Simmons from CBP,
22 you said that you were going to be providing a team out
23 to Guam, right?

24 PATRICK SIMMONS: Yes, the folks from San
25 Francisco were going to be coming out that way, yes.

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1 RON GRAHAM: And so certainly at Guam, if
2 we were to detect something, so does that mean your team
3 is now going to be looking at the cargo coming into Guam?

4 PATRICK SIMMONS: They will be assisting
5 your folks out there, yes.

6 RON GRAHAM: Got you. All right. And --

7 PATRICK SIMMONS: But I'm also not going
8 to go out on the ledge and say that they're going to
9 clear your area for you either. They're not necessarily
10 trained for that. I'm not sure what protocol you're
11 speaking of or what your standards are. Pat Donaghy,
12 can you speak to that at all?

13 PAT DONAGHY: Can you repeat the question,
14 Patrick? I'm sorry, I didn't hear what you said.

15 PATRICK SIMMONS: Well, when we get a hit
16 for the USDA folks out there, and we see something in
17 the cargo, really we just kind of want to follow your
18 procedures in a sense that, you know, we've got a hit
19 and we don't really know what to do then with this piece
20 of cargo.

21 What do you typically do? You screen it
22 further with the RID, so I guess you're going to have
23 a RID with that team?

24 PAT DONAGHY: That's correct.

25 PATRICK SIMMONS: Okay.

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1 RON GRAHAM: It's in Guam, so I mean if the
2 protocol says follow exactly what were also pushed out
3 to the ports, whether it's a U.S. territory or not, even
4 with the U.S. Coast Guard, we're applying the same
5 protocols.

6 PATRICK SIMMONS: So, if your team's --
7 (Crosstalk).

8 SCOTT HUDSON: This is Scott again, the
9 moderator. Is there any way that I can ask that
10 coordination to be carried on offline? We have about
11 four other bullets that we want to cover on this A-team
12 call.

13 PATRICK SIMMONS: Got you. Ron, maybe Grant,
14 can you coordinate a call with us and CBP so we can make
15 sure we know what their procedures are?

16 RON GRAHAM: We have already had a call with
17 them. What I guess I'm asking the advisory team to do
18 for us is help us develop some guidance on people that
19 are in these areas that do not have a RID, but their
20 alarm triggers at 1. The first procedure we have is
21 we clear the area, we clear out of the area. There are
22 facilities out there that they're going to probably --
23 there's the grocery stores, these are processing plants,
24 these are containers. If this --

25 PAT DONAGHY: Well, if you had a 1 on this

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1 situation without having this, you know, if you just
2 had a hit and it wasn't this situation, what did you
3 do? How do you get the work done?

4 RON GRAHAM: Sorry, say that again?

5 PAT DONAGHY: How do you do this kind of
6 work, i.e., clearing, getting reentry, if it wasn't
7 involving Japan?

8 PATRICK SIMMONS: Do you normally carry PRDs
9 with you?

10 RON: No, we do not.

11 PATRICK SIMMONS: Okay, so that's the
12 problem. They don't even protocol the place --

13 (Crosstalk)

14 PAT DONAGHY: Right, then you need to set
15 up --

16 PATRICK SIMMONS: -- because they don't have
17 the equipment.

18 PAT DONAGHY: Well then they need to sit
19 down with some health/physics folks and develop some
20 protocols. Tell them carry a meter and make a measurement
21 and let you know what you're going to do with the answer.

22 RON GRAHAM: That's correct, okay. But we
23 don't have the equipment. That's what I'm saying. If
24 these things trigger at 1, our people are going to have
25 to back out of there. Our question is, what is the guidance

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1 on getting that area re-cleared again, without having
2 access to RIDs?

3 PAT DONAGHY: Well then you need more
4 equipment. If you're going to go do a health/physics
5 job, take enough equipment to do it right.

6 RON GRAHAM: These are HPs and when we talked
7 to the CBP this morning, it's not an easy thing to learn
8 how to use this RICDs (phonetic), to my understanding.

9 LYNN EVANS: This is Lynn Evans from CDC.
10 I appreciate all the difficulty in resolving this, but
11 could we do this on another call with the "advisory team
12 technical work group"?

13 RON GRAHAM: Lynn, I've been sending emails
14 asking for guidance on this, and no one seems to want
15 to answer these emails back. Now you're saying trying
16 to -- we need to get this solved and quit beating around
17 the bush with this.

18 I've sent several emails to you, and Ed and
19 Charles on this, asking for guidance and help on this.
20 You know, you don't want to talk about it during the
21 CDC calls, and you don't want to email me back and say,
22 well let's discuss it another time.

23 LYNN EVANS: Ron, and I understand that.
24 This is some of the procedural issues that I was trying
25 to encourage us to talk about yesterday. But, I think

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1 that this is such a big issue that it needs to be talked
2 about on a special call just for this one issue so that
3 it can be --

4 (Crosstalk)

5 LYNN EVANS: That's what I'm suggesting.

6 RON GRAHAM: I know, but it's not for a lack
7 of me trying to establish that, okay? I just know the
8 emails --

9 LYNN EVANS: I understand.

10 RON GRAHAM: -- today I've sent asking for
11 assistance with this; no one bothers to email me back
12 and say, Ron, okay let's set up a separate phone call.
13 I can't control (inaudible) schedule.

14 LYNN EVANS: I'm not disagreeing with you,
15 Ron, and that's why I'm suggesting it needs to be handled
16 in its own conference call.

17 RON GRAHAM: And okay, then, these people
18 who are controlling (inaudible) please set the call for
19 us then.

20 LYNN EVANS: And the reason I suggest that,
21 I have another reason for suggesting that too, is because
22 there are other issues that we need to deal with in addition
23 to this. He's gone.

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3 (Crosstalk)

4 SCOTT HUDSON: I mean, well, I heard a
5 recommendation that we have another call on this
6 particular issue and things related to it. We both want
7 to try to do that today.

8 RON GRAHAM: I am not clear after 4:00 today.
9 I'm in (inaudible).

10 SCOTT HUDSON: Well, I'm just trying to
11 juggle items here. We've got calls lined up, you know,
12 starting in about 15 minutes here for other items as
13 well. We certainly want support for this today. I've
14 just got to figure out a way to get it in the schedule.
15 Is there anybody else willing to take the lead on this
16 issue?

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3 RON GRAHAM: I think it has to be someone
4 within FCPA that understands the health/physics of this.
5 I mean you all are the ones who developed the initial
6 guidance document on this. So, you all need to --

7 MALE PARTICIPANT: Their problem is that
8 when they can't follow Coast Guard and Customs procedures.

9 SECOND MALE PARTICIPANT: Ron, we need to
10 understand why you can't follow the Customs and Coast
11 Guard procedures in this particular situation?

12 RON GRAHAM: We don't have the --

13 SECOND MALE PARTICIPANT: That's one of our
14 issues.

15 RON GRAHAM: We don't have the equipment.
16 We don't have the (inaudible) --

17 SECOND MALE PARTICIPANT: Why not?

18 RON GRAHAM: -- personnel.

19 SECOND MALE PARTICIPANT: Well, that's not
20 an advisory team problem.

21 RON GRAHAM: Okay. But without that
22 equipment, is there other guidance that we can get?

23 SECOND MALE PARTICIPANT: No.

24 RON GRAHAM: No? Okay. There, so we've
25 settled it now. We've settled it.

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1 SECOND MALE PARTICIPANT: I mean, not
2 without some different equipment. You have half the
3 equipment that you need to do the job. And your management
4 needs to understand that they're sending out an
5 ill-equipped team to do a job.

6 RON GRAHAM: Okay. There's no other groups
7 in those areas. These are U.S. areas. No other groups
8 in there who have monitoring equipment or the expertise.

9 SECOND MALE PARTICIPANT: That's outside
10 of advisory team purview.

11 RON GRAHAM: Okay.
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3 MALE PARTICIPANT: Help me staff it.

4 SCOTT HUDSON: All right. I believe we've
5 kind of hit a contoured hump. We're kind of stuck.

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: It seems to me --

8 SCOTT HUDSON: We'll do our best to, you
9 know, wrap a description of this and figure out a way
10 forward, but I think we need to leave this one alone
11 and try to address one of the other items that are on
12 the agenda in the next few minutes.

13 MALE PARTICIPANT:

14 (b)(5)
15
16

17 SCOTT HUDSON: Understood, yes. We're
18 basically kind of coming up against a wall with making
19 recommendations for a higher screening level. We're
20 at a --

21 MALE PARTICIPANT:

22 (b)(5)
23
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24 SCOTT HUDSON: That's it. All right, thank
25 you. We'll do our best to elevate. All right, switching

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1 gears. Everybody take a deep breath. I know that we're
2 invested in positions there.

3 What I propose is we've got reentry guys.

4 I think that was the other attachment, that one that
5 went around. Basically this guidance, multi-agency
6 developed, I think originally came from the NRC, but
7 several folks have weighed in on it. Several agencies
8 weighed in on it.

9 It's basically for use by the Department
10 of State to allow temporary access into the 50-mile
11 evacuation zone there in Japan, basically to recover
12 personal property. And there's, you know, a description
13 there.

14 And I'm just curious if folks had a chance
15 to look at that, if they've got any issues with it?
16 Is it something that the A-team can endorse or do they
17 have things that they would like to have ironed out before
18 they take that position?

19 LYNN EVANS: This is Lynn, CDC. I didn't
20 have time to read it for this call.

21 SCOTT HUDSON: Yes, sorry about that. We
22 had got it out about, I don't know, maybe 45 minutes
23 before the call.

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3 SCOTT HUDSON: Does anybody know if we have
4 the supplement, the reentry guidance?

5 MALE PARTICIPANT: Don't know. It's dated
6 the 28th, yesterday.

7 SCOTT HUDSON: Anyway, the folks here in
8 the garmel (phonetic) unit and in EPA have looked at
9 that and make their tweaks, and we're just looking for
10 feedback. I guess if nobody's had a chance to look at
11 it, I just ask for you to look at it and be prepared
12 to comment on it tomorrow's call at 2:00.

13 All right. I have several other items that
14 were just basically bullets for discussion. We may have
15 all wasted our energy already, so I'll just raise them
16 and we can introduce any comments or discussion about
17 those items.

18 One of them is domestically produced milk
19 and drinking water. Do we have a trigger for testing
20 U.S. supplies?

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3 SCOTT HUDSON: I'm sure many of you are aware,
4 folks are getting concerned about elevated levels of
5 Iodine-131. They're showing up in rainwater and being
6 detected at the nuclear power plant station. And one
7 of the questions that we're anticipating is, are we going
8 to accelerate drinking water and milk before iodine?

9 JOHN JENSEN: Yes, this John Jensen from
10 Premium USDA. Mike Boyd and I were kind of working this
11 issue a little bit together and I guess maybe the questions
12 has been answered in the sense that the milk testing
13 was moved up to, I guess it's this week instead of next
14 week.

15 And additional water monitoring is being
16 done as a result of those Iodine-131 hits in Pennsylvania
17 and I think Massachusetts, maybe even Maryland now.
18 So, I guess the trigger is that we found it here at a
19 couple more places than we thought, so now we're going
20 to do some, and maybe not additional sampling, but we're
21 at least going to take a quick look or move up our sampling.

22 So I'm not sure. I think then, based on
23 the results this week, we'll talk about -- the EPA will
24 decide what they're going to do. If they're going to
25 do more monitoring or continuous monitoring or whatever.

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1 But --

2 SCOTT HUDSON: So you're basically talking
3 about accelerating the schedule but perhaps not extra
4 sampling?

5 JOHN JENSEN: Correct. And so, the trigger
6 level was just the sense of no one could say what would
7 cause some additional sampling or accelerate the schedule,
8 or whatever. So we just kind of thought it was an opportune
9 time to kind of start thinking about that maybe events
10 over took us I guess.

11 But something I think -- I don't know if
12 EPA wants to deal with this at some point in the future
13 then, so maybe I'll talk to Mike Boyd about it and see
14 what he's thinking.

15 (Crosstalk)

16 EUGENE (phonetic): Well what response
17 levels do you think he'd use? Because there's response
18 levels for a preventative tag (phonetic) for peak milk
19 activity. So wouldn't you just use a percentage of that
20 to increase your sampling period for milk?

21 JOHN JENSEN: Right. I guess there would
22 be some level of airborne activity that would cause us
23 to want to do some additional milk sampling or water
24 sampling, and we just don't know. No one has said what
25 that would be. I'm not sure if that answers that question.

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1 Is that Eugene?

2 EUGENE: Yes.

3 JOHN JENSEN: Hi, Gene.

4 EUGENE: Because there should be milk
5 samples ready by mid-week or at the end of the week.
6 So if you started seeing levels like around 150 pico-curies
7 per liter, I mean that would seem to be a point where,
8 you know, it might be prudent to increase the sampling
9 period.

10 JOHN JENSEN: Correct, Eugene. And then,
11 I guess all I'm saying is that that kind of discussion,
12 you know, we haven't had that before, or it didn't seem
13 like EPA had an automatic trigger for it --

14 EUGENE: Yes.

15 JOHN JENSEN: -- so we thought that would
16 be a good idea to have.

17 EUGENE: Yes, and I'm just representing --
18 (Crosstalk)

19 SCOTT HUDSON: (Inaudible) I'm sorry, Gene,
20 go ahead.

21 EUGENE: Yes, I was just referencing the
22 150 because that's like 1 percent of the preventative
23 tag (phonetic) for milk.

24 SCOTT HUDSON: Right. Yes, understood.

25 EUGENE: Yes, I know the deal with (inaudible)

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1 was like 1/100.

2 SCOTT HUDSON: Well, what I've heard is that
3 it sounds like we might have some milk samples coming
4 in this week and that maybe gives us something to react
5 to. It might make it a little bit more solid.

6 EUGENE: Yes.

7 JOHN JENSEN: Yes, hopefully they're low.

8 EUGENE: Yes. Hopefully we won't be
9 reacting, right.

10 FEMALE PARTICIPANT: Then you won't have
11 to, right.

12 SCOTT HUDSON: All right. Somewhat related
13 to that, moving onto another bullet; rain water monitoring
14 results. Again, related -

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3 JOHN CORTINAS: So John, I guess one of the
4 questions is, we are definitely trying to move forward,
5 but of course very cautiously and in a coordinated effort
6 with DOE. But one of the questions is our ability to
7 even look at possible different scenarios to have a sense
8 of communicating the uncertainty with this as well.

9 So, is it possible to receive any of the
10 model input, in particular, at least what your models
11 are showing as deposition into the ocean that may have
12 started back shortly after the event began?

13 JOHN NASSTROM: Yes, I mean we're producing
14 projections of deposition. We've been doing what-if's
15 for a range of scenarios and using NRC generated source
16 terms. And, you know, I don't think they're all going
17 to help with the uncertainty because some of them are
18 proving to be, you know, incorrect based on new
19 information.

20 So yes, we do have some. There certainly
21 is our deposition predictions that cover kind of, at
22 least one maybe plausible scenario is the term that's
23 being used. So, the answer is DOE has that data. I think
24 we probably ought to think about that plus what else
25 is potentially useful to do.

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1 I could see, you know, since no one really
2 knows what got deposited over water, even though this
3 might be some plausible scenario, you probably want to,
4 like you said, address the uncertainty by tracking
5 trajectories; I would say from multiple times since the
6 event occurred, maybe concentrating on times when there
7 were explosions and known ventings and things like that,
8 or at least some reasonable, plausible idea of when there
9 might have been a venting.

10 And I would say you want to do trajectories
11 from all those key times, and probably other times as
12 well just because no one knows exactly when this material
13 got out. So, I'd say you probably want to not just rely
14 on any DOE deposition footprints, but also run a range
15 of scenarios for all the times that potentially could
16 have caused deposition.

17 You know, the runoff thing makes a lot of
18 sense because there is a measured land deposition
19 footprint now and that, for all we know, that may be
20 the major contributor to what's getting into the ocean.

21 We don't know until we get better measurements
22 over water. So, I'd say the DOE model predictions from
23 NARAC could be a potential source, but I also think you
24 guys may be already doing it. You'd just be looking
25 at following trajectories from off the coast of Fukushima

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1 and for a range of times. I think that sounds like it'd
2 be a useful endeavor.

3 JOHN CORTINAS: So, I guess one thing though
4 we need in terms of, not that we could accurately validate
5 it until we have the observation, at least be consistent
6 with the scenarios that your models are coming out.
7 I think that's one thing that's important to us in terms
8 of a coordination of a federal activity, that the things
9 that we're doing are consistent and are done in
10 collaboration with DOE.

11 And so that's why we feel it would be important,
12 if possible, then to get that data from DOE, even if
13 it's the most plausible scenario that the DOE feels is
14 available at this time.

15 JOHN NASSTROM: Yes, that makes sense. Yes,
16 right. I think that makes a lot of sense because at
17 least we'd be looking at the same times, at least when
18 people thought there were releases.

19 JOHN CORTINAS: Exactly, and I think we could
20 coordinate those, the particle tracing calculations,
21 and certainly work closely with DOE so that you're aware
22 of what's coming out with those. And if adjustments
23 need to be made or additional scenarios that DOE would
24 be interested in seeing, we could certainly work with
25 you to make sure that we're responding together on that.

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1 So what would be the next step in terms of
2 being able to get access to that model data and provide
3 it to NOAA?

4 JOHN NASSTROM: I'll call DOE after we get
5 off the phone and talk to them. And I think a starting
6 point is the one you just suggested. At least get the
7 timing assumptions for what we're assuming and that's
8 actually based on an analysis the NRC has provided.
9 So, in a way we would just be relaying information that
10 the NRC provided.

11 So we'll definitely coordinate with the NRC
12 and DOE to get you the timing on that. And so why don't
13 I do that? After we get off the phone here, I'll call
14 DOE and let them know what we've kind of talked about.

15 And I'll try to find a point-of-contact.
16 Actually, probably the thing to do is just contact you,
17 John? Is that right? Would that be the next step after
18 we --

19 JOHN CORTINAS: Definitely, yes, please do,
20 and I'll make sure that the people that need to know
21 are brought into that. And if other people need to be
22 established as points of contact, we'll make sure everyone
23 knows that.

24 JOHN NASSTROM: Okay. All right, so I see
25 I have your email address obviously. Do you have a

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1 phone number?

2 JOHN CORTINAS: Yes, my office number,
3 301-734-1198. It should be on the email as well at the
4 bottom.

5 ARICHA ROMERA: And if I may add, some other
6 information which can also help us tremendously would
7 be to get information on, you know, the area of the
8 radioisotopes in terms of can we assume them to be dissolved,
9 or are some associated with sinking particles?

10 Also if there are any, you know, thresholds
11 of concentrations in the seawater which tells us whether
12 we need to worry about or not to worry about.

13 JOHN NASSTROM: Yes, since NARAC does mainly
14 amateurish modeling, we'll probably have to find another
15 contact for the water behavior, and I don't know, I'm
16 not sure who that would be. It might be someone in EPA
17 that deals with water contamination. If NOAA has a primary
18 contact in EPA, they might start looking to them to get
19 that kind of information.

20 JOHN CORTINAS: Okay, we'll work on that
21 as well. Okay. Anything else anyone wants to add?
22 Something that maybe we missed? Roland?

23 ROLAND DRAXLER: No, I'm good.

24 JOHN CORTINAS: Okay. And, again,
25 obviously this is critically important to everyone.

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1 You know, as soon as any kind of validation data that
2 we can get, the sooner the better of course.

3 JOHN NASSTROM: Yes, it sounds like some
4 folks in NOAA are actually collecting seawater samples.
5 Is that true?

6 JOHN CORTINAS: I'm not aware of it. It's
7 possible. We have in certain, in our coordination calls,
8 discussed possible platforms that could be deployed to
9 take measurements, but I'm not aware of any that are
10 being taken right now as it relates to the radiation.

11 JOHNNASSTROM: Okay. Allright. And we're
12 not the lead for collecting measurement data, but DOE
13 has several folks working on trying to assemble data,
14 and I know they're aware of some Japanese seawater sampling.
15 Last I heard, they hadn't actually gotten that data
16 yet.

17 JOHN CORTINAS: We have been monitoring
18 observations actually on the Japanese web site. One
19 of their ministries has been placing that data online.

20 JOHN NASSTROM: Oh, yes. Right, yes, I had
21 heard about that as well. That's the next site.

22 JOHN CORTINAS: Yes, that's right. That's
23 where we've been able to obtain our data --

24 JOHN NASSTROM: Right.

25 JOHN CORTINAS: -- that we have from there,

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1 so that --

2 JOHN NASSTROM: Right, people were aware
3 of that as well here.

4 JOHN CORTINAS: So John, let me ask you one
5 more question. I know you're on the air side. You know,
6 we do want to make sure that if there are any other agencies
7 or any other activity that's looking at transport within
8 the ocean, that we're at least aware of that and need
9 to coordinate and work with them as much as possible.

10 So, are you aware of any other activities in which agencies
11 are looking at that?

12 JOHN NASSTROM: No, I don't. The only thing
13 I would maybe suspect is the Navy, but you're already
14 in contact with them and their ocean model, right?

15 JOHN CORTINAS: Correct, and they have
16 confirmed that they are not, so.

17 JOHN NASSTROM: Okay.

18 JOHN CORTINAS: Okay.

19 JOHN NASSTROM: No, I'm not aware of any,
20 but that doesn't mean there's not someone out there doing
21 it obviously.

22 JOHN CORTINAS: Of course. Okay, well very
23 good. This has been very productive and we really
24 appreciate anything that you guys do to help us get this
25 data. Obviously the sooner we can get it the better.

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1 We do have a bit of a send up (phonetic) time in order
2 to run the particle tracing calculations in order to
3 bring us up-to-date, and so of course, the sooner we
4 can get the information the better.

5 JOHN NASSTROM: Do you know if there's some
6 product you're trying to get out by a certain date, or
7 is this just kind of, you know this is coming and you're
8 getting prepared?

9 JOHN CORTINAS: Well, we're anticipating.

10
11 (b)(5)
12

13 JOHN NASSTROM: Okay. I'll get on the horn
14 with DOE right away and then I'll get back to you, John.

15 JOHN CORTINAS: Great.

16 JOHN NASSTROM: Okay.

17 JOHN CORTINAS: Very good, thanks everyone.

18 ARICHA ROMERA: Thank you.

19 JOHN NASSTROM: Goodbye.

20 AUTOMATED MESSAGE: Is now exiting.
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3 MALE PARTICIPANT: What do you got there?

4 AUTOMATED MESSAGE: Welcome. You have
5 reached the audio conferencing system. This call may
6 be recorded. After the tone, enter your conference
7 security code followed by the pound key. Thank you.
8 After the tone, please state your name and organization
9 followed by the pound key.

10 SECOND MALE PARTICIPANT: Protective
11 Measures Team, NRC.

12 MALE PARTICIPANT: On this call, is Chuck
13 Casto in a --

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2 NUCLEAR REGULATORY COMMISSION

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

6 + + + + +

7 TUESDAY,
8 MARCH 29, 2011

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(CONFERENCE CALL INITIATED)

RECORDING: Welcome. You have reached the audio conferencing system. This call may be recorded. After the tone enter your conference security code, followed by the pound key. Thank you. After the tone please state your name and organization, followed by the pound key.

MALE PARTICIPANT: (b)(6)

(b)(6)

MALE PARTICIPANT: Also with us --

ROBERT: Okay, okay. Hey you've got meself, Robert (inaudible), Graham --

MR. WOOLCROFT: Woolcroft (phonetic).

ROBERT: Woolcroft from emergency team. And also Steve Walker from, who's helping a bit. All right. So we'll go to Canada.

MR. AL JABBI (phonetic): Hi. There's myself Ali Al Jabbi, colleagues Melanie Rickard (phonetic), Vladimer Hotchidev (phonetic), Aiden Boujor (phonetic) and Bert --

MR. CARRIO (phonetic): Carrio.

ROBERT: Okay. And ASN?

MALE PARTICIPANT: Yes. We are Eve Marie (phonetic), Beau (phonetic) and (inaudible).

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1 ROBERT: Okay. Thank you, Tom. We'll do
2 this, we've been doing it -- I've not been in the last
3 couple of days. I know we've now combined the health
4 physics and the pump status meetings. So I'm guessing
5 what we'll do is, we'll do the pump safety meeting first,
6 go through all the reactors and the fuel pumps.

7 Second, status and checking our agreements
8 on the status. And then we'll pass over to the health
9 physics guys to have their discussions. So we'll start
10 with the pump status, unless anybody has anything else
11 they want to state before we start.

12 We'll start off with the reactors. And we
13 have noticed that the, that some temperature measurements
14 on the reactors indicate that the (inaudible) temperature,
15 certainly on reactor 1, I think it was, last night, went
16 off from something like 230 degrees to 330 degrees.
17 And I'll be highly interested to hear people's views
18 on that.

19 Our understanding is, in response to that,
20 the Japanese have increased the cooling water flow to
21 that reactor. That seems to have stabilized the
22 temperature and brought it slightly down, only marginally.

23 But clearly that sort of temperature, it's well above
24 the saturation temperature of what will ever be fed in
25 there.

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1 It's coming from the, you know, the fire
2 pumps. I don't imagine they can get anywhere near that
3 sort of pressure for that sort of temperature. So the
4 conditions on the -- So we got these temperatures on
5 the pressure vessels, which are significantly higher
6 than the saturation temperature of the cooling water.

7 So it implies that it's sort of, in my view,
8 that there is some fuel or cordium (phonetic) against
9 the side of the pressure vessel. And I've just been
10 to hear other people's views on that.

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MIKE BROWN: This is Mike Brown with the RST Team. We actually talked about the -- I assume you're talking about this high reading for feed water nozzle temperature. I mean, the number I have is like 270 degrees, 274 degrees c.

ROBERT: Okay. I didn't even know it was the feed nozzle temperature, to be honest. All the messages we saw were just saying that it was a vessel temperature.

MIKE BROWN: Well here's, the two temperatures that I have --

MALE PARTICIPANT: Right.

MIKE BROWN: -- for Unit 1 containment vessel would be a bottom drain temperature of 139 degrees Celsius, and a feed water nozzle temperature of 274 degrees Celsius.

MIKE BROWN: Right, bottom. I had bottom drain. But I assume it's close to the bottom end. But at any rate, my understanding when I posed the question to INPO and GEH yesterday was, is that they are also unsure why the feed water nozzle temperature is so high. You know, especially given the fact that they're supposed to be injecting via this feed water nozzle line.

They're, you know, the only suggestions that

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1 they actually came up with was, (b)(4)

2 (b)(4)

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8 ROBERT: Okay.

9 MIKE BROWN: So this is still sort of an
10 open question. We're not sure why there's such a high
11 discrepancy. And we're also not, you know, we've been
12 recommending that they increase the injection flow rate.
13 Because we've also noticed increase in bottom head
14 temperatures over the last few days.

15 ROBERT: Yes. Well I was going to say,
16 somebody pointed out that Reactor 2 has gone up about
17 50 degrees in the, well I guess the last few hours.

18 MIKE BROWN: Right, right. And it's almost
19 like, you know, they had reduced the injection on that.
20 It used to be 310 liters per minute. And now it's down
21 to 117 liters per minute. And it seems like when they
22 reduced it the temperature went up.

23 ROBERT: Yes. Well I will do some hand counts.
24 I mean, I recommend to Katy (phonetic) to not react
25 unless it's about five megawatts, maybe a bit more.

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1 But round about (inaudible).

2 And for that, sort of, if you took the jet
3 stream water, and you look at the (inaudible) rise.
4 You have to inject about two kilograms a second to remove
5 that amount of heat, which equates to about 114 liters
6 per minute, which is consistent with what they've been
7 doing.

8 So if they just reduced the feed even a little
9 bit, it will be below the critical amount needed. And
10 the temperatures will go up quite quickly.

11 MIKE BROWN: Right.

12 ROBERT: But then they've got to hit the
13 site target of the flow going into the reactor vessel.
14 But, you know, my assumption was that for some reason
15 they'd allowed the flow to reduce slightly. And that's
16 when temperatures started going up. Now they're being
17 corrected for it.

18 MIKE BROWN: Well --

19 ROBERT: But I just wanted some reassurance
20 if anybody's any thought, that nothing more sinister's
21 going on.

22 MIKE BROWN: (Inaudible), I do not believe
23 that anything, you know, I believe that they reduced
24 the injection rate on Unit 2, because they're trying
25 to reduce it down to what we call the murder rate, you

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1 know, the minimum debris retention rate, you know, in
2 the CMGs. Are you guys familiar with that? Do you have
3 a copy?

4 MALE PARTICIPANT: NARAC for the management
5 guidelines.

6 ROBERT: We don't have a copy of all of it
7 in my guidelines, no. And certainly not for BWR. But,
8 I mean, I can see that you would, you don't want to put
9 more in than you really need to. But clearly you do
10 want to keep the thing cool.

11 MIKE BROWN: Right. We can try and see if
12 we have an electronic of, I mean, we do not have Fukushima's
13 severe accident guidelines. But we have ones from BWRs
14 in the U.S. that are of a similar, you know, vintage
15 as what we would expect them to be using. And we can
16 see about getting you CMGs. So you can at least, you
17 know, we can at least talk on the same page.

18 MALE PARTICIPANT: Will you send that to
19 Canada as well, please?

20 MALE PARTICIPANT: Okay. Could you go ahead
21 and recite your email addresses for --

22 MIKE BROWN: Or could you do this? Could
23 you send an email to us at RST01.hoc@nrc.gov. That when
24 you --

25 MALE PARTICIPANT: I don't know if it's case

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1 specific, but the HOC should be capital H, and then little
2 O, little C.

3 MIKE BROWN: I don't think it's case
4 specific.

5 MALE PARTICIPANT: I don't know that it makes
6 any difference.

7 MALE PARTICIPANT: Yes. I sent an email
8 to that one before. I don't think it is.

9 MIKE BROWN: (Inaudible), I don't think so
10 either.

11 MALE PARTICIPANT: So RST01.hoc@nrc.gov.

12 MALE PARTICIPANT: That's correct.

13 MALE PARTICIPANT: Okay, thank you.

14 JOHN THORP: And just on this topic about
15 your curiosity about the flows. This is John Thorp on
16 the Reactor Safety Team. I just got off the phone with
17 staff at the Institute for Nuclear Power Operations,
18 Emergency Response Center, INPO, ERC.

19 MALE PARTICIPANT: Yes.

20 JOHN THORP: We had talked a little bit about
21 the fact that there's these fairly large pipe and cable
22 trenches out between the turbine buildings of each of
23 the three units and the ocean water, which have some
24 degree of water in them. And there's some concern that
25 TEPCO has about allowing this water to continue to flow.

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1 And so his comment was that, he said that
2 it looks like they were going to try to reduce the amount
3 of feed water flow into the reactors to try to minimize
4 how much out flow there is into these trenches.

5 MALE PARTICIPANT: Yes.

6 JOHN THORP: Dose rates measured at the
7 surface of the Unit 1 trench was on the order of, let's
8 see if I can find it, like 1,000 millisieverts per hour.
9 So that's about 100 rem per hour --

10 MALE PARTICIPANT: That was Unit 2.

11 JOHN THORP: -- for us U.S. types. That
12 was trench 1. So that was some of the theory behind
13 why we might be seeing some rising temperatures on the
14 feed water nozzles on a couple of these units.

15 ROBERT: So do you think possibly they're
16 experimenting a little bit with trying to optimize the
17 flow to get, control the temperatures? But not do much
18 more than that possibly?

19 What we've seen is in adjusting it slightly,
20 trying to find the sweet spot. They perhaps overdid
21 it overnight, and the temperatures have gone up. Would
22 that be a take from it maybe?

23 MIKE BROWN: Yes. I would think that --

24 JOHN THORP: Yes. That sounds reasonable,
25 what's going on.

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1 ROBERT: Okay. All right. In that case
2 then, I was hoping -- I don't think there's any need
3 to say anything more about that, unless anybody's got
4 any points they'd like to bring to our attention? Shall
5 we go on to the spent fuel?

6 MIKE BROWN: Sure.

7 ROBERT: And actually, I've not been looking
8 at these before. My understanding is there's no real
9 change on any of this status. It's still a mystery to
10 me what has happened to the (inaudible) spent fuel.

11 Because I would expect it if the tanks had
12 been emptied, at least on Reactor 4, you would have seen
13 some releases coming from the fuel. And there doesn't
14 appear to have been any significant release. So I'm
15 deducing that they've been able to get at least some
16 water on it, and able to keep it adequately cooled.
17 But any updates on that?

18 JOHN THORP: While Mike is looking for some
19 information, this is John Thorp, I'll relay to you what
20 I've just kept with the folks at INPO. Their sources
21 indicate that the Unit 1 spent fuel pool, that they've
22 shifted from a salt water to fresh water spray yesterday.

23 ROBERT: Yes.

24 JOHN THORP: And they're using this, what
25 they call the giant giraffe --

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1 ROBERT: Yes.

2 JOHN THORP: -- extended boom nozzle for
3 that. They plan to resume some spray into that fuel
4 pool tonight.

5 ROBERT: Yes.

6 JOHN THORP: You know, all this is relative,
7 based on whatever time you're thinking about.

8 ROBERT: Yes.

9 JOHN THORP: But Unit 2, they ran a test
10 today to pump to the spent fuel pool. And they said
11 that they recorded temperatures of 46 degrees centigrade
12 in Unit 2, about 115 degrees fahrenheit.

13 ROBERT: Okay. How are they measuring those
14 temperatures, do you know? Are they using some remote
15 means of --

16 JOHN THORP: It's not clear to us yet what
17 the source of that -- That's the question I have asked
18 this INPO contact as well.

19 MIKE BROWN: They do have some instrument
20 busses that have been re-energized on Units 1 through
21 4. And I have gotten reports that some instruments in
22 the control room are working.

23 And they do periodically send somebody to run
24 through the control room to take down some readings.
25 But we haven't gotten a instrument, you know, reading

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1 on where any of these numbers are coming from.

2 ROBERT: Okay. All right.

3 JOHN THORP: Today, Japan's daylight time,
4 between 1400 and 1600 hours they sprayed Unit 3. And
5 they feel like they seem to be pretty confident about
6 they're maintaining the stability and the condition of
7 the spent fuel pool.

8 ROBERT: Yes. I mean, that seems to be the
9 impression I've got, is that basically now they're
10 regularly dousing them with water. And hopefully filling
11 them a little bit more, what can be filled.

12 MIKE BROWN: Right.

13 ROBERT: And therefore, providing they keep
14 on doing that indefinitely, there isn't really much of
15 a challenge to the fuel.

16 JOHN THORP: Right. Fairly steady
17 temperatures, et cetera.

18 MIKE BROWN: Yes.

19 ROBERT: Okay. I guess, what's the state
20 of the reactors fuel pond in Reactor 4? Because that
21 was the one where's there's concern that the water was
22 draining out for now.

23 JOHN THORP: Well the indication that
24 they've given us was that it's still unclear on whether
25 they actually are draining out or not. But they've shifted

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1 their spray for that spent fuel pool also to fresh water.

2 ROBERT: Yes.

3 JOHN THORP: And maintaining temperatures
4 fairly steady. They said they had about 93, a measurement
5 of 93 degrees Fahrenheit.

6 ROBERT: Fahrenheit, yes, so --

7 MIKE BROWN: And just that the most recent
8 update on that was, apparently there's some discussion
9 about putting an in pool heat exchanger into Unit 4's
10 pool.

11 ROBERT: Okay.

12 MIKE BROWN: I guess this is on the part
13 of TEPCO. I just received that information from our
14 Executive Team leader.

15 ROBERT: Okay. That seems to imply they're
16 pretty confident there's water in that pool for that
17 to be worthwhile.

18 MIKE BROWN: Yes. The only thing that causes
19 me concern is that I guess when they raise their pumper
20 truck up with a concrete pumper truck with a video camera
21 on it, that the video camera was really unable to see
22 if there's water in the pool or not. Because there was
23 so much steam rising up from the pool.

24 ROBERT: Yes.

25 MIKE BROWN: And, you know, I used to work

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1 in operations. And I've been on a few spent fuel pools.

2 And I haven't really seen a lot of steam rising from
3 any of them. So if they had, you know, like --

4 If the thing was full of water, you know,
5 where you had your 23 feet of water over the spent fuel
6 pool, it seems to me like you should be able to raise
7 the video camera up there and see a bunch of water.

8 ROBERT: Yes.

9 MIKE BROWN: Especially if the water you're
10 putting in is, you know, ocean water or fire water that's
11 coming from a header that's probably 50, 60 degrees
12 Fahrenheit --

13 ROBERT: Yes.

14 MIKE BROWN: -- you know, that it's going
15 to take some time to heat it up.

16 ROBERT: Yes.

17 MIKE BROWN: You know, that's just, that's
18 Mike Brown speaking.

19 JOHN THORP: Yes, and a few days ago --

20 ROBERT: I'll tell you (inaudible), I'm a
21 bit mystified by this fuel pond. Because there's no
22 release, and yet we don't seem to be confident there's
23 a lot of water there.

24 And yet, for some reason those two facts
25 being, especially given the times that have gone on now,

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1 we're many weeks into this. There seems a slight
2 incongruity there between the facts.

3 But doubtless we'll find out what the answer
4 is. But the avenue seems to be that, are they put
5 (inaudible) because we're not getting anything to assume
6 a (inaudible) release on it.

7 JOHN THORP: I'm trying to recall what the
8 age of the fuel was that had been placed in the Unit
9 4.

10 ROBERT: It was from last November is our
11 understanding.

12 JOHN THORP: Right. They were talking at
13 least three and a half --

14 ROBERT: Yes, it would still be two, two
15 and a half megawatts, I would guess, decaying in that.

16 JOHN THORP: Right. (b)(5)

17 (b)(5)
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1 MIKE BROWN:

(b)(5)

2 JOHN THORP:

(b)(5)

3 (b)(5)

4
5 ROBERT: Okay. Okay. Anything from Canada
6 or France on any questions you'd like to ask?

7 MALE PARTICIPANT: We have nothing to add
8 at this stage.

9 JOHN THORP: I have a question for you guys.

10 ROBERT: Yes.

11 JOHN THORP: With respect to the U.K., France,
12 or even Canada if you like. I have received, you know,
13 input from folks that I, you know, have interacted with
14 internationally.

15 And I didn't know whether the regulatory
16 authorities in some of the other countries, like Germany
17 or Sweden -- How are you all interacting with them?
18 Are they, is there any sort of effort to try to consolidate
19 information and provide some updates to those folks?

20 ROBERT: The simple, the only answer is,
21 I don't know if we've tried to talk to any of the regulators.

22 I could ask, I could certainly go and -- Yes, our chief
23 inspector went to (inaudible) last week. So doubtless
24 he has been talking to them.

25 Certainly nobody's approached us to join

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1 in the telecom. But we would personally have no objection
2 to the national regulators, I've said it before, joining
3 in these telecoms if they were interested.

4 I might take a little action away, just to
5 see if we can approach and see if they are interested.

6 You know, I see no harm in them taking part, and just
7 sharing their understanding as well. And particularly
8 (inaudible) to be well, they might give more insight
9 in the U.K. (inaudible).

10 JOHN THORP: Very good. They might offer
11 some good perspectives or thoughts. And perhaps they're
12 happy with what they're getting from the IAEA and other
13 open sources, you know. Maybe they're getting, they
14 have communications with NISA or JAIS. But I just wanted
15 to ask that question. Perhaps we can --

16 ROBERT: Yes. Okay. I'm happy to take that
17 away. And I'll raise that as an act internally, to see
18 if we should approach them and invite them to take part.

19 All right. Okay. If there's nothing more on the status,
20 I was going to hand over to our health physics people
21 to carry on the discussion in that area.

22 STEVE WALKER: Good morning, Steve Walker
23 with Duty Health Physicists here in the incident room.

24 I just have a couple of issues to raise with you. Are
25 any of you guys recording levels of iodine in atmosphere

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1 in your respective countries?

2 We've had a bit of a media flurry in the
3 U.K. today concerning detection of very, very low levels
4 of iodine 131 in two locations. One in Scotland, one
5 in the South of the country.

6 We're talking here about micro becquerels
7 per meter cubed. So very, very tiny numbers. But they're
8 causing a bit of a media flurry. I just wondered if
9 you're picking up any signals on your side of the pond?

10 MELANIE (phonetic): This is Melanie with
11 the (inaudible) in Canada. Yes, we're seeing some small
12 levels as well in our --

13 MALE PARTICIPANT: Get back to you.

14 MELANIE: -- at west, and possibly beyond.
15 And it is creating some questions here as well. And
16 in fact we're not actually the ones that are controlling
17 the monitoring stations.

18 But our counterparts will be providing that
19 information to us today, and moving forward. So we're
20 going to be looking at it. We're not concerned about
21 it, perse. But definitely it's raising a lot of questions.

22 STEVE WALKER: Yes. We're not concerned
23 in the U.K. Do you have any feel for what the (inaudible)
24 are? Are we talking about micro becquerels?

25 MELANIE: Even milli becquerels.

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1 STEVE WALKER: Milli becquerels, to what

2 --

3 MELANIE: Yes, like point -- For example,
4 like .6 milli becquerels.

5 MALE PARTICIPANT: It's per meter cubed.

6 STEVE WALKER: Per meter cubed, .6 milli?

7 MELANIE: Yes. And it goes up to -- Like
8 this is just a sample what I'm telling you right now.
9 But the numbers that I have in front of me range from .6
10 milli becs per liter cubed, up to about four.

11 STEVE WALKER: Is that sampling through
12 filter paper? Or through something like a matak
13 (phonetic), which will take out iodine specifically?

14 MELANIE: I believe it's a filter.

15 STEVE WALKER: Okay. Thank you.

16 MELANIE: Your welcome.

17 DON COOL: And this is Don Cool, from NRC's
18 Protective Measure Team. There have been a number of
19 measurements picked up at various places in the United
20 States. It certainly has resulted in some flurries.
21 The Governor of the State of Pennsylvania issued a press
22 release and various things.

23 Most of our power plants are now working
24 to report voluntarily through a industry initiative to
25 collect the data. In the U.S. our Environmental

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1 Protection Agency is the group that's actually assembling
2 and keeping track of all of those.

3 I don't have the latest set of numbers at
4 my hand at the moment, to confirm a similarity of levels.
5 But we're seeing them both coasts and in between.

6 STEVE WALKER: Okay. Thank you, sir. It
7 seems as though you've got, are experiencing high levels,
8 albeit very low. But still higher than the two figures
9 we've had. But thank you for that information.

10 Folks, what I'm trying to do is get a feel
11 for where these levels could go next if we had a major
12 release. The other issue I'm hoping to raise with you
13 if possible is, we're beginning to take more of an interest
14 now in the environmental circumstances as they currently
15 stand. And less interest in potential doses that would
16 arise from a significant release.

17 Although we're still modeling that on a daily
18 basis. So that if we did get a significant release up
19 there, we could actually track or predict what would
20 go, is likely to be.

21 We have in hand at the moment a reassessment
22 of the source term from ground deposition dates, being
23 dealt with at the moment by our health protection agency.

24 As we all know, the source term so far has
25 been based on analysis of what we think the holdings

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1 were in pond and in core at the time of the earthquake.

2 What we're trying to do now is use environmental data
3 as they come in, to give us another cross check against
4 what we think is the source term.

5 And of course, these environmental data will
6 give us an indication of the source term that has actually
7 been released, in what now appears to be a chronic ongoing
8 release process. Have any of you guys begun to think
9 about that aspect in modeling?

10 MALE PARTICIPANT: From Canada's point of
11 view, the only thing we've done to our source term from
12 the original one released shortly after the event, was
13 to age it to account for decay.

14 STEVE WALKER: Okay. I was going to ask
15 that question. We heard that the facts, people yesterday
16 came up in the discussion with thinking of revising that
17 release calculations. And we just got to ask what the,
18 for the motivation with that.

19 Was it because you just wanted to take a
20 count of any decay in say, the iodine? Or was it you
21 were thinking that the actual scenario itself can be
22 downgraded? I mean, we're currently I think assuming
23 about three reactors full of spent fuel.

24 And, I mean, we've (inaudible) the
25 description internally. We think that's still

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1 appropriate for the time being, until things become more
2 clearer.

3 But I was curious to hear whether anybody
4 else has reviewed that message to see whether there's
5 any scope for revisions. Or whether you would just,
6 as I suspected possibly, just revising it to take account
7 of the decay in iodine. I'm just seeing some round table
8 views on that.

9 DON COOL: This is Donald Cool from NRC's
10 Protective Measures Team. We have done some different
11 source terms to try and get something that would be closer
12 to a plausible realistic case, based on the conditions
13 that were happening.

14 It's not that we've downgraded the situation.
15 But rather to be, try to be a bit more realistic in
16 what could happen now. There has been some discussion
17 back and forth about how to best try to look at what
18 might have been the source term, based on the environmental
19 samples. But we have not attempted to try and do a back
20 calculation.

21 We still have an ongoing release. So it
22 keeps changing. So our focus has been more, at this
23 point, on watching the trends, and asking, trying to
24 answer the barrage of ongoing questions about the ongoing
25 protective measures and issues.

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1 And letting people back in for temporary
2 pickup of personal effects and things, and that variety
3 of activity. And then trying to play at polishing the
4 source term.

5 STEVE WALKER: I agree. And it's the same
6 thing which those of us in health physics in the U.K.
7 are not entirely confident in any of these techniques
8 to try and figure out what the release that is actually
9 going on now is.

10 Because it's very protracted. It's over
11 very many days. And most of the modeling approaches
12 are about modeling acute releases. We've got sort of
13 predicted difficulty in mind.

14 One of the things that came up in discussions
15 we had with our own Foreign and Commonwealth Office this
16 morning, and also with the embassy in Tokyo, is this
17 issue of lay people in consular departments in Japan
18 making decisions about whether a particular piece of
19 information, particularly coolant leak temperature
20 excursions, and the presence of things like plutonium
21 in coolant. Whether that should be a problem to phone
22 back to base and get some further advice.

23 I think one of the concerns they've got,
24 I might share this concern, is that, are we confident
25 that the Japanese authorities would disclose a major

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1 release if it took place

2 And I think there is this nagging worry
3 amongst those who are representing British nationals
4 in Japan, that they've got some kind of metric, some
5 kind of yardstick that they can use.

6 So that when they get media reports of things
7 like temperature excursions, if it's within a certain
8 bound they don't need to seek further advice. But if
9 it goes beyond some value, they need to phone back to
10 base to get some advice from organizations like ours,
11 for example.

12 Do any of you guys have any process now for
13 adjudicating on some of these data? For example, the
14 plutonium in the coolant that has been announced. And
15 I first heard about it this morning. But I think it's
16 been in the public domain now for about a day or so.

17 Do you any of you have any feel for the way
18 in which we can use these sorts of data to come up with,
19 you know, a simple rule of thumb the people in Japan
20 can use to decide on whether they need to seek further
21 advice?

22 DON COOL: This is Don Cool from NRC's
23 Protective Measures Team. We've had similar questions
24 from our Ambassador in Japan and others. And are looking
25 to try and have a set of parameters that they could use

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1 to help provide some advice trigger, whether something
2 else needed to happen.

3 I believe that some of the U.S. assets, our
4 Department of Energy and other assets over there are
5 deploying some of our own detectors and information,
6 so that we will have a bit of our own data feed, as well
7 as what we would be getting from the various Japanese
8 regulator and authority. This is not at the plant site
9 itself, although fairly close.

10 I don't have a specific list of items to
11 adjudicate or call back on. I know that there's some
12 guidance for the DoE field teams that are out doing
13 measurements, for when they call back and work with their
14 folks. They don't usually reach back to us.

15 It's our Department of Energy people who
16 have those assets, have the resources, and their initial
17 discussions back and forth. But they certainly are
18 thinking about it.

19 STEVE WALKER: Okay. Well if you come up
20 with anything pithy, do let us know. Because it's not
21 an easy issue to provide advice on. But it would be
22 good if we can come up with some engineering, a (inaudible)
23 of parameters could be used as a reference point by quite
24 inexperienced people, as it turns out, in our embassy
25 who need to make decisions inside of hours about whether

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1 they need to phone back to base for further updates or
2 advice.

3 MALE PARTICIPANT: This is Canada, they're
4 CNFC. We're having daily teleconferences with our
5 Japanese embassy, and the Ambassador in particular.
6 And this is certainly the sort of number one area of
7 interest for them is, what we think is happening versus
8 what the Japanese media is saying. And in particular,
9 what this means for Canadian nationals that are in Japan.

10 We have also deployed some monitoring
11 capability to the embassy itself. Again, not on site,
12 but at the embassy, along with some dosimetries, TLDs
13 and what not. But clearly it's touching now as we move
14 into a phase where there seems to be some stability.
15 But it seems to be very tenuous.

16 And then any time that the media gets a hold
17 of like the plutonium story today, it's just, it's really
18 loud in Tokyo about plutonium. And everybody's worrying
19 should they be panicking or not.

20 And I agree it would be great if we could
21 provide some kind of, at least even on these
22 teleconferences it gives us the opportunity to update
23 based on whatever we think is the going situation.

24 STEVE WALKER: Thank you. Those are the
25 only issues I wanted to raise. Thank you, guys. Has

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1 it (inaudible)to many of the health physicists around
2 the table, as it were?

3 DON COOL: Thanks from NRC.

4 STEVE WALKER: ASN or Canada? All right.

5 In that case then I'll call it a close then. So we're
6 all going to meet again at the same time tomorrow.

7 MALE PARTICIPANT: Yes, Canada will be
8 there.

9 STEVE WALKER: Okay. Thank you everyone
10 for attending.

11 DON COOL: Thanks much. Have a good day.
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(CONFERENCE CALL INITIATED)

RECORDING: Welcome to Ready Conference.

For security verification, please enter your pass code followed by the pound or hash key. Please hold while I confirm your pass code. Thank you. Your pass code is confirmed. When you hear the tone, you will be the third person to join the meeting.

RALPH ANDERSON: Yes. It would be a few days in duration. And, you know, now we're in day 17 I think. And still not out of the woods. So make the different -- Hi. Who's joined the call?

DON COOL: This is Don Cool in the NRC Protective Measures Team.

RALPH ANDERSON: Hi, Don, how are you doing. This is Ralph.

DON COOL: Oh, we're paddling away. We are calling you in from the operations center, so we are running a recorded line.

RALPH ANDERSON: Very good. Thank you. So far we have you all. And we have Lisa Edwards from EPRI.

And then we have ourselves, Ellen Anderson and then myself and Michael Stewart (phonetic). Hi, who joined.

JIM KEEPLING (phonetic): Hi, this is INPO, Atlanta.

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1 RALPH ANDERSON: Hey there. Who do we have
2 from INPO Atlanta?

3 JIM KEEPLING: Several of us here today.
4 I'm the point of contact, Jim Keepeling.

5 RALPH ANDERSON: Well hi, Jim. How are you
6 doing. This is Ralph Anderson at NEI.

7 KIM KEEPLING: Hey, Ralph.

8 RALPH ANDERSON: You have on the phone with
9 us so far Lisa Edwards from EPRI and Don Cool from NRC.
10 And, Don, you have others with you? Or are you on your
11 own.

12 DON COOL: No, there are others here. And
13 they'll float in and out around the table.

14 RALPH ANDERSON: Okay. That's fine.

15 DON COOL: By the way, I was talking with
16 the DoE and NSA folks late yesterday. They hadn't gotten
17 news of the conference call until about ten minutes before.
18 And didn't even know who from there should attend.

19 So I was filling them in on the purpose of
20 the call. We might hope that that connection's been
21 made, and somebody from there today. But I haven't talked
22 to them since about 4:15 p.m. yesterday afternoon.

23 ELLEN ANDERSON: Don, this is Ellen Anderson.
24 We sent another email out this morning with an
25 announcement for this call. And I believe they're not

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1 available to participate today.

2 DON COOL: Ah, well.

3 ELLEN ANDERSON: We tried.

4 DON COOL: Yes. Okay. I'm just going to
5 put you on mute and wait for the other people to get
6 here.

7 ELLEN ANDERSON: Hi, who just joined the
8 call?

9 MALE PARTICIPANT: (Inaudible) from GE.

10 ELLEN ANDERSON: Hi. Good morning.

11 MALE PARTICIPANT: Good morning.

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(CONFERENCE CALL INITIATED)

RALPH ANDERSON: Hi. Who joined?

ERIC HERSTEIN (phonetic): Hi. This is Eric Herstein, GE Hitachi.

RALPH ANDERSON: Well hi, Eric. How are you doing. This is Ralph Anderson at NEI. We have others on the line. We're just going to give it another minute or two to see if we end up with a full house. I think primarily we're awaiting Environmental Protection Agency.

ERIC HERSTEIN: I'm good.

RALPH ANDERSON: Don, just to follow up on the conversation, I'm sorry if I missed something. In regards to Department of Energy, we'll probably reach out later today and attempt to encourage some participation from above.

DON COOL: Yes, that's fine. I had been talking to Ann Heinrich (phonetic) in NNSA's international group. And I was under the impression she was going to pass along to the group that actually needed to participate. But I can't vouch for steps in the process.

RALPH ANDERSON: Yes. It may just be a simple logistics problem at the moment.

DON COOL: Yes. I think that Ann Heinrich

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1 at NNSA had actually heard about it from Andrew Sauder
2 (phonetic), because he used to be at State. So that's
3 part of the international community that talks to each
4 other.

5 RALPH ANDERSON: Right. Yes, Ellen did
6 reach out to Ann. But what we got back without comment,
7 just a little while ago. Ellen is that right?

8 ELLEN ANDERSON: Yes.

9 RALPH ANDERSON: It was, you know, declined.
10 So again, the fact it has more to do with scheduling
11 logistics than it does to do with anything else.

12 DON COOL: Yes. I think part of the issue
13 is Ann's group is not the right group to be participating
14 in the call. And we have to figure out where in the
15 system is the right group. And start the communications
16 directly with them.

17 RALPH ANDERSON: Right. Well I'm going to
18 go ahead and do sort of a roll call here, just to confirm
19 the parties that we have on the phone. Nuclear Regulatory
20 Commission.

21 DON COOL: Yes, we're here.

22 RALPH ANDERSON: Okay. And INPO.

23 MALE PARTICIPANT: INPO's here.

24 RALPH ANDERSON: EPRI.

25 LISA EDWARDS: Lisa Edwards.

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1 RALPH ANDERSON: And Ralph Anderson from
2 NEI, and others. GE.

3 ERIC HERSTEIN: GE's on the line.

4 RALPH ANDERSON: Okay. Do you have anyone
5 on from Environmental Protection Agency?

6 RAY CLARK: This is Ray, Ray Clark.

7 RALPH ANDERSON: Hey, Ray, how you doing?
8 This is Ralph.

9 RAY CLARK: Fine.

10 RALPH ANDERSON: And Department of Energy,
11 I believe not. Again, I think we just need to ramp up
12 our logistics there with the (inaudible). Office of
13 Science and Technology Policy.

14 FEMALE PARTICIPANT: Here.

15 RALPH ANDERSON: Okay. Are there any
16 organizations represented on the call? Okay, well
17 welcome everybody. We had a, I thought a very interesting
18 and productive call yesterday.

19 I'm Ralph Anderson at the Nuclear Energy
20 Institute. Our hope in establishing this call is to
21 simply help coordinate data and information that our
22 various organizations are collecting in the radiological
23 area. So that we at least are aware of, if not having
24 directly access to all of the information.

25 And also to discuss somewhat our perspective

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1 on the data, potential implications of the data. As
2 I had mentioned to the several of you that I talked to
3 previously, primarily for the purpose of hoping to align
4 our external communications and our actions that we take
5 going forward.

6 Not to say the actions all have to be precisely
7 coordinated. But I believe it's helpful if all the various
8 organization at least understand what's being done.
9 And differences, if there are different perspectives
10 on the same information.

11 Just so that when we're dealing out in the
12 public that we don't inadvertently erode confidence by
13 appearing to have two different data or two different
14 perspectives. So that really is the underlying
15 objective.

16 What we learned yesterday in our calls,
17 however, is that there also might be certain topics that
18 bear some discussion between colleagues. Just to allow
19 each to broaden their perspective a little bit. So we
20 did create some room on the proposed agenda for that
21 purpose.

22 So the agenda that we had suggested originally,
23 and we're pretty close to that, would be to briefly cover
24 developments in the U.S. radiological data, and discuss
25 the implications of that. Discuss developments in the

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1 Japanese radiological data, and consider implications
2 of that.

3 And then basically open the floor for any
4 other topics that people wish to discuss. I propose
5 that on the U.S. data that the standing one, two, to
6 be followed by anyone else with information, would be
7 the Environmental Protection Agency and Nuclear Energy
8 Institute, since we've been tagged to collect nuclear
9 energy industry environmental monitoring data.

10 And that for the Japanese situation, that
11 our initial go to's would be the Nuclear Regulatory
12 Commission and the Institute of Nuclear Power Operations.

13 If that satisfies everybody, then that would be the
14 way we would proceed through these.

15 I'll stop at that point, and just ask if
16 there's either comments or questions, or other aspects
17 that you'd like to make sure that we get on the agenda.

18 JIM: Ralph, this is Jim with INPO. You
19 know that last statement with data regarding the Japanese
20 side, with INPO being the point of contact or the lead?

21 RALPH ANDERSON: On behalf of the nuclear
22 industry, yes.

23 FEMALE PARTICIPANT: I'm not sure, we're
24 not sure what you're asking us to provide.

25 RALPH ANDERSON: Your understanding of the

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1 radiological situation in Japan, based on the information
2 that you're receiving from (inaudible) Tokyo.

3 FEMALE PARTICIPANT: We may be able to start
4 that tomorrow. But we're not prepared to do that today.

5 RALPH ANDERSON: All right. Don, are you
6 under any restraints like that?

7 DON COOL: I'm sorry, Ralph, I was called
8 away for just a second. What restraints --

9 RALPH ANDERSON: Okay. INPO had mentioned
10 that they may have to wait until tomorrow to confirm
11 to what extent they can share radiological information
12 coming out of Japan, and their understanding of the
13 radiological situation.

14 And then, so as I understand it from you
15 all, it's just a matter of setting the standard for what
16 information and how that should be shared. Is that
17 correct?

18 JIM: That's correct.

19 RALPH ANDERSON: Okay. So I was just
20 checking, Don, on your end. Do you have constraints
21 on the information that you can share radiologically
22 about Japan?

23 DON COOL: We'll share the information that
24 we can. At least some of the stuff that the Department
25 of Energy is working, obviously we can't share some of

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1 their aerial monitoring assets. Although they are
2 starting to put some of that up on the public web site
3 as well. So --

4 RALPH ANDERSON: Right.

5 DON COOL: I'll have to be somewhat careful
6 about what we can talk about.

7 RALPH ANDERSON: Okay. And I think that
8 should be kind of understood all the way around. And
9 again, I clearly want to respect the constraints that
10 people need to work under. I think we all understand
11 those.

12 And, you know, the good news is, from what
13 I've seen, although they may be interpreting it strange,
14 the media has all of our information anyway. So I'm
15 going to feel free to cite media sources. And if somebody
16 thinks that information's wrong, perhaps they could at
17 least point that out.

18 JIM: Ralph, this is, I think at this point
19 that's a good starting point. There's a lot of information
20 in the media.

21 RALPH ANDERSON: Yes. And my sense is that
22 the subtleties of specific information that one or another
23 organization might have wouldn't be as significant for
24 us, at least understanding implications of the general
25 direction things are going.

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1 So, you know, I'm not sure that at any time
2 we would need a complete and detailed description of
3 data, as much as composite views, which is, you know,
4 you can either go with the Japanese Ministry web site
5 and get all of their monitoring data. Or you can go
6 other places and find certain things.

7 You could go to JAIF and find about radiation
8 readings on the site. And you can go to a couple of
9 the news outlets that are fairly reliable, like Reuters
10 and a few others that have done a pretty good job of
11 keeping data current.

12 But I think the important part would be if
13 the direction of the discussion seems to -- If you have
14 information, or you believe the direction of the
15 discussion may be going off track, given what you know.

16 I think it would be less of conveying what
17 you know, as much as saying, well there may be information
18 out there that would contradict that. So at least we
19 don't stray too far. And again, I think we all respect
20 each other's mission and constraints. And certainly
21 we'll maintain that.

22 JIM: I appreciate that.

23 RALPH ANDERSON: So as far as the U.S. data
24 is concerned, Ray, either Ellen Anderson here could go
25 first about the Nuclear Power Plant data, or you could

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1 go first about what you all are seeing through RadNet
2 and other sources. Would you like to kick off with how
3 things may have changed from yesterday, if at all?

4 RAY CLARK: Ellen, you want me to go first?

5 ELLEN ANDERSON: Yes. Go ahead, Ray.

6 RAY CLARK: Okay. We've been working mostly
7 with our RadNet data, trying to get it compiled. But
8 then shaped, and have other people understand it, and
9 we can understand it.

10 And we're also comparing it with some other
11 source's data, just to see how things are progressing.

12 So far they're all about the same, just trace amounts
13 if anything.

14 RALPH ANDERSON: Ray, is the, could you walk
15 us through just briefly the various media or types of
16 data that you've got. And maybe give us some sense of
17 -- I'm assuming some of it might be longer than daily
18 samples.

19 And I'd just like to get a sense of, you
20 know, what things you're sampling or taking readings
21 of. And whether they're daily, and that they might change
22 from day to day, as opposed to things that might extend
23 longer than that. And I know you're doing your -- Go
24 ahead.

25 LEE VEAL: Hi, this is Lee Veal, the center

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1 director for Radiological Emergency Management at EPA.

2 We are collecting air quality data, both in terms of
3 real time gamma spec instruments. They're fed into our,
4 and available on our web site, EPA.gov/Japan2011.

5 We also, from the six networks pull filters
6 twice a week that come into our laboratory in Montgomery,
7 Alabama, and are analyzed. And those filter data are
8 also being made available on our web site. And you'll
9 see there was a release put out just last night on those
10 numbers.

11 Again, if we're seeing anything other than
12 non detected it is consistent with what other groups
13 are also seeing. And that is trace levels or very low
14 levels (inaudible). We have on our (inaudible) sites
15 that are in Guam, Saipan on the northern Mariana Islands,
16 Hawaii and Alaska, we have, they're deployable units,
17 mobile units.

18 We don't normally have six stations there
19 with a lot of historical data. But put them up for this
20 particular event. Those filters are pulled daily, as
21 opposed to twice a week.

22 And there is, of course, a compromise between
23 collecting enough matter on the filter to have enough
24 to analyze or not. Those have to be pulled every day.
25 Are there questions on that?

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1 RALPH ANDERSON: No. That helps
2 considerably. I didn't realize what you schedule was
3 on the U.S. filters. So that's very helpful.

4 LEE VEAL: Sure. Sure. And then
5 furthermore, we have precipitation samples that come
6 from various locations across the United States. They're
7 coming in after various precip events, whether it's rain
8 or snow.

9 We have drinking water samples. It
10 accelerated in the western part of the U.S. And we've
11 now done that across the country. Those are going to
12 be coming in. They'll have to be analyzed, so it will
13 be the end of the week before those are available.

14 And then we have a few milk samples coming
15 in from across the country as well. That's, it's a program
16 we inherited, you know, after the Atomic Energy Commission
17 was parsed up into various agencies.

18 We recognize fully that FDA and USDA,
19 depending on the part of the cow you're interested in,
20 are going to need to be very much involved with those
21 data. And it's our intent to provide that information
22 over to those two agencies.

23 Additionally, we have at the request of OSTP,
24 gotten access to the Department of Energy to the
25 comprehensive test ban treaty data. And have been

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1 reviewing it, not manage it, but just to review it and
2 see if it's fairly consistent with our findings on the
3 RadNet system.

4 And we have that in hand, as well as we have
5 arranged some discussions with NRC and I believe NEI,
6 somewhat as well. And they're on this phone. About the
7 nuclear power plant, and understanding the types of
8 samples that might come in from that, and what those
9 are saying.

10 And I think that it's safe for me to say
11 I'm looking at right now, that in general we are consistent
12 in terms of our levels for the United States and its
13 territories.

14 RALPH ANDERSON: Thank you very much. I
15 really appreciate that. Does anyone have any questions
16 in regard to that information?

17 DON COOL: This is Don Cool from the NRC's
18 Protective Measures Team. That sounds good. I
19 appreciate that. I'm assuming that when you refer to
20 things like rain samples from the precipitation events,
21 you're talking about things like what the Governor of
22 Pennsylvania issued the press release? And the bit of
23 hooopla here in the northeast over the last days for
24 some rain samples?

25 LEE VEAL: I believe so. Now from what I

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1 understand the Pennsylvania issue was from some of the
2 power plant stations, not ours. So we just have for
3 the verbal report and email type of thing. It's not
4 something we have transparency as to how that sample
5 was collected, or what it actually represented.

6 So we have our own system for doing precip
7 samples that we will be reporting on. And we're trying
8 to maintain situational awareness of all the other variety
9 of data sets domestically.

10 RALPH ANDERSON: Can you give me a sense
11 of either current activities or plans for carrying
12 sampling further through the food chain? You had
13 mentioned USDA and FDA. Is there a likelihood, if not
14 already, that they'll be tracking things through, all
15 the way into food products?

16 LEE VEAL: I do not have that information.
17 I do think we need to reach FDA and USDA to find that
18 out. That's not something normally in our mission space.

19 RALPH ANDERSON: Right.

20 LEE VEAL: And I don't want to overstep there.

21 RALPH ANDERSON: Yes. And that was fine.
22 It struck me that that could just simply be a crossover
23 item. And, you know, I've been watching their site
24 intently. I haven't called some of the people I know
25 over there yet. It's just a matter of time.

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1 But I was curious as to whether we would
2 be tracking that through it. Probably a question that
3 was going to be asked about the Government and others.

4 So I just comment that for --

5 LEE VEAL: I think it --

6 RALPH ANDERSON: -- consideration.

7 LEE VEAL: I think it's absolutely something
8 that someone will be asking the Government for. So is
9 there anyone from FDA or USDA on the call?

10 RALPH ANDERSON: No. We've not extended
11 that invitation. But I'll ask collectively on the group.
12 Does it make sense that we should reach out to them?
13 I'd appreciate feedback on that.

14 LEE VEAL: If EPA gets a vote, our answer
15 is yes.

16 RALPH ANDERSON: Okay. Don, any thoughts?

17 DON COOL: I think it makes sense. I
18 certainly, it's always good to invite. They might
19 consider it premature I suppose.

20 But it would be better for them to be hearing
21 what's going on, and aware of whatever's been put together
22 in terms of key messages, et cetera, so that there's
23 some measure of consistency where we have information
24 available.

25 RALPH ANDERSON: Right. Okay. People

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1 should feel free to ask questions at any time. But what
2 I'd like then if for Ellen Anderson here at NEI. Ellen
3 is coordinating our collection of nuclear power plant
4 data, and making it available to others.

5 All of your organizations on the phone have
6 access to that, or will have access. So I'm going to
7 let her update you, both on our process and perhaps even
8 a summary of what's being seen.

9 ELLEN ANDERSON: Okay. Thanks, Ralph.
10 Beginning last Saturday we reported to EPA, NRC and our
11 industry counterparts, EPRI, INPO, the data that we had
12 received thus far from the sites. So this, but in order
13 to make this say, an easier process for everyone, we
14 developed a web site which was launched at 11:00 a.m
15 this morning.

16 The folks that should, from the various
17 agencies, that should have received an email from me
18 containing the user ID and password. Each agency or
19 organization has one user ID and one password.

20 Ray Clark at EPA should have received an
21 email with the information for EPA. Robert Nelson at
22 the NRC should have received an email with ID and password.

23 Cindy Connely at INPO, Sean Bouchard at EPRI, Bob Olivera
24 at A&I. So those folks have it, as well as each site
25 radiation protection manager has received that

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1 information as well.

2 I received my email, my personal, because
3 I also, NEI also has a read only on the data. I received
4 mine at 11:01 a.m. So I know that it went out. So effective
5 at 11:01 a.m. today, this web site has been, has become
6 available.

7 And a letter actually went out to our chief
8 nuclear officers of the plants this morning, informing
9 them of the 11:00 a.m. launch of this web site. So it
10 is available.

11 Now what I can tell you is that, you know,
12 if you go on there right now you're not going to see
13 any data. Because obviously the plants need to populate
14 the data. I've asked the plants to populate any data
15 prior to this time as well.

16 So the information you may have seen in an
17 email that I sent you yesterday, with the most updated
18 information as of 12:00 noon yesterday, my request has
19 been that that data be placed on the web site. So you'll
20 have historical information from each site. Each site
21 has its own page.

22 So you can, the folks that have the email
23 and ID can, ID and password will be able to access the
24 page for each site. It is a read only for the industry
25 organizations and Federal Government. It is a write

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1 and read for the plant sites.

2 On that web site, on that web page for each
3 site, you will see the contact name, the name of the
4 person with the telephone number and email address of
5 that person.

6 So if there is a specific question about
7 the data, you know, how it was collected, whatever, you
8 can contact that particular person directly, without
9 having to go through a third party.

10 One of the things you need to be aware of
11 the fact that there is no regulatory requirement to collect
12 and sample this data, in addition to our normal remp
13 (phonetic) samples. So the plants will attempt to obtain
14 samples as they can.

15 There won't be, there's some plants that
16 will probably put in data every day. You'll see the
17 west coast plants have been providing data on a daily
18 basis. Other plants are not. It has a lot to do with
19 resource loading and just things going on right now.
20 Recognizing this is a very busy outage season right now,
21 with 45 refueling outages this spring alone.

22 If you have any questions -- Oh, and the
23 ID and the password can be shared in your agency. So
24 if you care to share it with someone else to collect,
25 to actually, you know, read the data and collect it,

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1 you can do so. We just didn't want to have more than
2 75 user IDs on this system. So you can do that.

3 And if there are any questions, please don't
4 hesitate to contact me at NEI. As far as readings are
5 concerned, I've been, you know, I really haven't seen
6 anything that is what is I consider to be out of the
7 ordinary.

8 I don't think there's anything that we've
9 seen that is a public health and safety issue. And it's
10 been very consistent across the country. Any questions
11 for me about the web site or the data collection? All
12 right. Thank you.

13 RALPH ANDERSON: When we convene on the phone
14 tomorrow then, we'll appreciate feedback on your
15 experience with interacting with the web site. So I'd
16 simply ask you all to give it a shot in the next 24 hours,
17 and email Ellen if you see any difficulties. Just give
18 her an atta lady if you like it, when you talk to her
19 tomorrow.

20 DON COOL: Okay. This is Don Cool from NRC.
21 I appreciate the info. We're going to go chase the
22 email and try and get in. I thought folks would be
23 interested to know that in this, a call this morning
24 -- We have daily calls with our colleagues in Canada,
25 the U.K. and France.

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1 And our colleagues over in the U.K. said
2 they had two sites in the U.K. which had picked up a
3 little bit of iodine this morning. I thought people
4 would like to know that it has gotten three quarters
5 of the way around the northern hemisphere now. Canada
6 is also reporting hits in several places. Again, at
7 very low levels.

8 RALPH ANDERSON: Thank you, Don.

9 ELLEN ANDERSON: Thanks, Don.

10 RALPH ANDERSON: Now as far as turning to
11 a discussion of implications, I mentioned to you all
12 before that one of the things NEI does, is serves as
13 the industry's public communications arm, which means
14 that we're out interacting with considerable media.

15 And just because of my background I end up
16 being one of those people. So what I convey to you is
17 both first hand from me, and also coming back from others
18 that have taken a turn in the box with various networks.

19 The types of questions that regard the
20 environmental radiation monitoring data in the United
21 States seem to go to the following. You know, one is,
22 are we detecting anything besides radioactive iodine?

23 I will tell you that our own plant data indicates yes.

24 Some people detected cesium 137. And I'm looking at
25 Ellen. I don't recall that there were any other

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1 radionuclides at this point.

2 ELLEN ANDERSON: Iodine and one or two plants
3 with cesium. That's it.

4 RALPH ANDERSON: And then an ancillary
5 question to that was, given the discovery of plutonium
6 in the soil on the site at Fukushima, is there any
7 expectation that we would see plutonium in samples in
8 the United States? Now I'm just giving you the questions,
9 not the answers. But that's excited a lot of interest.

10 I was on the Weather Channel, of all places,
11 this morning, and they asked me that question. Another
12 one is much more specific. Went to the notion, which
13 I simply mentioned that I wasn't in a position to answer
14 that.

15 But especially for EPA and NRC, there was
16 interest in how the overall monitoring and interpretation
17 of the data was being coordinated between the Federal
18 Government and the states.

19 You know, we have some anecdotal information
20 about how that might or might not be happening. But
21 there was some interest in who's in charge in that regard.

22 And then another series of questions went to rain.
23 So I'm interested in EPA's monitoring precipitation.

24 Some of the samples, excuse me, some of the
25 data in the nuclear power plant samples is either surface

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1 water or rain water, which at least show the presence
2 of iodine 131. And so, you know, the obvious question
3 that people were aiming at is, is the water safe to drink?

4 Locally, where that question came from was
5 because Virginia has published the recommendation that
6 people who cisterns for collection of rain water, and
7 consumption of same, should forego that for the present.

8 Now they qualified it with the statement, using abundant
9 caution. But for instance, that's a formal
10 recommendation being made by the Virginia Department
11 of Health.

12 And I'm sure that other states are making
13 other recommendations. One that I heard, which
14 fortunately turned out not to be a state recommendation
15 was in California. They were suggesting that people
16 be sure and use an umbrella when they're in a rainstorm
17 in California, to shield themselves from radiation.
18 That was not a formal state recommendation.

19 But the key is, there's a lot of different
20 views being taken by the states on what this means and
21 the appropriate way to respond to that. I just raise
22 that as an issue that people might need to think about.

23 You know, you're going to have up to 50
24 interpretations of the same information, in addition
25 to the interpretations both by the Government itself,

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1 as well as by various agencies within the Government.

2 Don, thinking of agreement states. And then
3 EPA thinking of how your delegations of authorities and
4 responsibilities work through the states. Do you know
5 if there's any thought so far on how that might be
6 coordinated?

7 DON COOL: Well this is Don Cool from NRC.
8 We have folks that are communicating information to
9 the agreement states. I haven't talked to them about
10 this particular question yet.

11 And my impression, not verified, was that
12 we were telling them that we were feeding the information
13 we were getting to EPA and the RadNet program, so that
14 there would be a single point of contact for the states
15 to be talking to in the Federal Government, rather than
16 them getting something from us, and perhaps something
17 slightly different from the EPA folks.

18 So I'm going to hand over to Ray and the
19 folks. Because I think we're going to send then your
20 directions, rather than trying to have us both doing
21 things.

22 RAY CLARK: Okay. I'm sure that's fine.
23 They, our lab that's doing the analysis, we do have a
24 process set up, whereby there's a notification chain
25 that goes from the lab through headquarters, and then

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1 out to our regional representatives, who would then
2 contact the affected states, if we hit a certain trigger
3 point, which we're nowhere near at this point.

4 Otherwise, I'll have to check to be sure.

5 But we're certainly answering inquiries. And we
6 generally point people to the web site that Lee was just
7 talking about, the Japan 2011 web site, which is at near
8 real time gamma data that comes in, as well as results
9 from the other types of media. I can check though to
10 be, see if there's something more formal going on with
11 the states that I'm aware of right now.

12 RALPH ANDERSON: Let me offer, Ray, first
13 of all, I commend the web site. (Inaudible) is very
14 good. So kudos to how that was put together.

15 RAY CLARK: Thank you.

16 RALPH ANDERSON: Very helpful. Go ahead.

17 RAY CLARK: Oh, I was just going to say thank
18 you. But there's been some technical things that, that
19 web site has not been dealt with technologically very
20 well in the last few years. And it's gotten ramped up
21 very quickly. So if there are some glitches, we apologize.
22 We're working to fix them.

23 RALPH ANDERSON: Well, anyway, kudos that
24 it's there. It's a good pointer.

25 DON COOL: Ray, this is Don Cool. Can I

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1 have perhaps one of our folks that interacts with the
2 states to get directly in contact with you separately,
3 just to make sure that we have an alignment of how you're
4 talking to them, and we are?

5 RAY CLARK: Oh, sure.

6 DON COOL: Okay. So I'm going to pass that
7 onto our liaison team people that are in the communication
8 with the state liaison officers and the agreement state
9 people, to just make sure that they've coordinated it
10 with you. We don't need to do that on this call.

11 RAY CLARK: Right.

12 DON COOL: Very good, thank you.

13 RALPH ANDERSON: What I would offer is, you
14 know, like I said, we end up collecting a lot of anecdotal
15 information. Because when people call us about something,
16 we're not a federal agency.

17 So there's kind of an expectation on the
18 part of the press that we'll answer it. So that just
19 causes people to throw a lot of questions our way that
20 might not come your way. It's just an information sharing.

21 One feed back we got from one of the states,
22 south of Connecticut and north of Pennsylvania, was that
23 they didn't need the Federal Government telling them
24 whether or not the amount of radioactivity was below
25 a level of concern.

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1 RAY CLARK: Okay.

2 RALPH ANDERSON: You know, I comment that
3 because it's --

4 RAY CLARK: Don't know how to react to them.

5 RALPH ANDERSON: (Inaudible) the message
6 is (inaudible). I'm not offering it up as --

7 RAYCLARK: Oh, I understand. And our public
8 information people are struggling every hour with those
9 very types of raises and messages, as you can well imagine.

10 RALPH ANDERSON: Yes. And I'm not sure the
11 answer to settling that's going to be easy. But
12 particularly if we get into food stuff later, you know,
13 to think it's going to be interesting.

14 I remind you all of the story of the
15 radioactive boar in Germany, in which cesium emerged
16 far after Chernobyl, created a lot of excitement for
17 a period of time. So, you know, the key is this isn't
18 going to go away in a few weeks. And we all know that.

19 This is something that might extend for years.

20 But I just offer up that it strikes me as an issue that
21 probably, as difficult as it is, you know, should be
22 resolved in the long term. And I just wanted to make
23 sure folks were thinking about that.

24 Another one that's come up, and I'm a little
25 baffled as to how to respond to that at the moment.

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1 It appears, and I say that in a very qualified way, that
2 some of the concentrations found in rain water, at least
3 at our sites, and I leave open the question of the quality
4 of the samples and the analysis.

5 I believe that they would have been done
6 well. Concentration values reported are about ten times
7 in excess of the maximum contaminant level for iodine
8 131 in Finnish drinking water. And it begs the question
9 if our consummate statement is that water is safe to
10 drink, and these are below levels of concern?

11 I had a couple of HPs point out to me that
12 that might challenge that a little bit if people look
13 at the numbers and say, well it doesn't make drinking
14 water standards, but you're saying it's safe to drink.

15 And I come back to Virginia. And that's where this
16 came out of. I had a few utilities call me and talk
17 to me about, say about that.

18 RAY CLARK: I believe it.

19 RALPH ANDERSON: Has made that
20 recommendation. I mean, people do drink rain water.
21 That's the reality. So I offer up EPA or NRC, or anybody
22 else, has that come up in your arena?

23 RAY CLARK: Yes, it has. And I'm pretty
24 sure public information people have worked on a message
25 about that. I don't want to try to say what that is

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1 right now. Because I wouldn't want to say it wrong.

2 But --

3 RALPH ANDERSON: Okay. And again --

4 RAY CLARK: -- I'm going to talk with them
5 and see.

6 RALPH ANDERSON: Yes. I'd appreciate
7 hearing back on that. Again, just because we're getting
8 asked those kinds of questions as well. And I'd like
9 to make sure that our (inaudible).

10 You know, on these types of issues of public
11 health we can all speak on the one hand as professionals.

12 But, you know, our attempt throughout is to be deferential
13 to the federal agencies that are responsible for those
14 areas.

15 And we try to point people to that as a way
16 of responding and answering. It sounds like it's already
17 on your radar screen. That's what we wanted to make
18 sure of.

19 DON COOL: Yes, Ray, this is Don Cool from
20 NRC. If EPA has got that out there, could you just point
21 us to where that is, or send us copy, so we all see what
22 messages you're putting out there?

23 And, Ralph, as you were talking about that,
24 it suddenly occurred to me that we might want to invite
25 CDC to also be listening to this. Because I know the

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1 folks down in Atlanta have been doing a lot of talking
2 about the public health issues. And they've got some
3 responsibilities there as well.

4 RALPH ANDERSON: Good point. Do you have
5 a suggested contact?

6 DON COOL: Well I know that --

7 RALPH ANDERSON: Is Charlie still the go
8 to down there? Or has he moved away?

9 DON COOL: I was talking with Charlie just
10 the other night.

11 RALPH ANDERSON: Is he still at home down
12 there?

13 DON COOL: As far as I know.

14 RALPH ANDERSON: (b)(6)

15 (b)(6)

16 RAY CLARK: Charlie Miller? Well I will
17 point out they put us in a difficult position. They
18 put something out the other day that wasn't correct about
19 RNCLs. So maybe they do need to listen.

20 RALPH ANDERSON: Okay. I'll reach out to
21 them and suggest that they get engaged. That's a good
22 observation, Don. Because actually, we've been pointing
23 people to their facts sheets, among other things, on
24 the specific radionuclides.

25 Okay, anything else in regards to U.S.

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1 radiological data or implications? A question for
2 ongoing discussion then. I'd like to leave this with,
3 is the other question people keep asking me. And that
4 is, is what we're seeing likely to be maximum that we're
5 going to see? And how long is it going to last?

6 So I just carry that along with you in regard
7 to perhaps over the next several days, or even weeks,
8 is starting to sort out if we really have a view on that.
9 Or is this truly undetermined?

10 And I will point out that all the publicly
11 available data indicates that significant releases
12 occurred in the very early days of the event. Since
13 then there's been a few isolated lesser releases. You
14 know, it would seem that the, at least the source term
15 there is decreasing.

16 But the, of course I don't claim to be a
17 meteorologist. So I don't know what it means, and where
18 stuff comes down and when it comes down. But that is
19 another question that's emerged, in the interactions
20 that we've had anyway.

21 DON COOL: Yes, this is Don Cool from NRC's
22 Protective Measures Team. We understand from MEXT data
23 from Japan things are generally trending down. You do
24 have some localized blips.

25 You do occasionally see things go up for

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1 a little bit when the wind shifts over some of the monitoring
2 points, which we sort of interpret as there's some low
3 level continuing release. But not "significant"
4 continued deposition.

5 RALPH ANDERSON: Thank you. That's a great
6 segue, Don, to transition. Can you take a shot at, within
7 whatever constraints you have, of describing how you,
8 sort of expand on what you just said, in terms of overall
9 trends radiologically in Japan?

10 DON COOL: What we basically know, trends
11 are headed down for most of the monitoring points. Points
12 immediately around the facility, have been gradually
13 coming down slowly. Trends in some monitoring data out
14 away from the facility have been trending downward.

15 As I said, we have heard that monitoring
16 stations would see a couple of little rises as the wind
17 was blowing across them. And then it would decay back
18 away when the wind was blowing back out to sea. I don't
19 have any of that specific data that we've looked at
20 separately.

21 I know that there are more and more people
22 starting to do measurements and assessments. IAEA has
23 a couple of teams running around taking samples. U.S.
24 boots on the ground are taking samples and measurements,
25 and a variety of things. That's for DoE to describe,

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1 all of the efforts both aerial and ground that they're
2 doing.

3 But if I stand back from it, things are
4 trending down. So I would agree with the statement that
5 you made a bit ago, that it would appear that most of
6 the significant releases happened a number of days ago.

7 And there hasn't been a large output since then. But
8 it's not zero.

9 RALPH ANDERSON: Right. You want to take
10 a shot at prognosis, as to whether you think we've
11 sufficiently turned the corner yet to preclude the
12 possibility of another large release?

13 DON COOL: Well, I don't have a crystal ball
14 that's nearly that good. I think you can describe it
15 as tenuously holding control, things being done to try
16 and improve the situation.

17 But I, this is just Don Cool, not NRC. I
18 don't think we're out of the woods. But I don't know
19 how to predict the various attributes. Each day I hear
20 things which worry me, and things that encourage me.

21 RALPH ANDERSON: You know, from all the
22 information that's available I guess our reflection on
23 publicly available information would be the same. INPO,
24 I'll turn to you again, recognizing the constraints that
25 you announced earlier.

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1 But if you could offer us your opinion on
2 whether either A, you see things any differently than
3 you've just heard? Or, B, whether you think it's, we're
4 even at a point to think of whether we're turning a corner
5 or not yet, I'd appreciate that.

6 JIM: I'll just speak very broadly. And
7 based on the data that we're seeing right now the trends
8 are in a good direction.

9 RALPH ANDERSON: Okay.

10 JIM: And we will get some clarification
11 on the protocol for providing more information for
12 tomorrow.

13 RALPH ANDERSON: Okay. And I greatly
14 appreciate that.

15 CINDY: And, Ralph, Ralph, this is Cindy.
16 I think Don Cool's talking, and it sounds like we're
17 getting data from basically the same places.

18 RALPH ANDERSON: Right.

19 CINDY: So it wouldn't be any different I
20 don't think than what we've already discussed.

21 RALPH ANDERSON: I'm going to ask GE if they
22 have any thoughts as well. Eric, are you still there?

23 DAVE CANDERRA (phonetic): No. Eric's
24 signed off. This is Dave Canderra here.

25 RALPH ANDERSON: Oh, hi, Dave.

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1 DAVE CANDERRA: Hi. I did sort of run a
2 spreadsheet projection early on. And it was very rough,
3 you know, as I'm sure a lot of your calculations are.

4 And, you know, based on the threshold levels
5 that they were picking up iodine 131 at and, you know,
6 the calendar, and sort of the Gaussian plume model, (b)
(4)

7 (b)(4)

8 RALPH ANDERSON: Okay. For a couple of
9 months anyway.

10 DAVE CANDERRA: Well, yes, yes. They're
11 going to, you know, right. Unless there's another chug,
12 a huge release of isotopes into the atmosphere. And
13 also based on wind trajectories and projections.

14 I've been trying to get, if anybody gets
15 this, any counts from Alaska and northern Canada. Because
16 that seems to be the intermediate high plume, seems to
17 be able to land there potentially. And I've heard nothing
18 about it.

19 RAY CLARK: We've had a couple of deployable
20 -- This is Ray Clark. A couple of deployables up in
21 Alaska.

22 DAVE CANDERRA: Okay.

23 RAY CLARK: I've got some data. They should
24 be on the web site, I think, by now.

25 DAVE CANDERRA: All right. Because that

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1 seems to be a population that's, you know, not dependant
2 on bottled water, that's for sure.

3 RALPH ANDERSON: Among NRC or EPA, for either
4 of you, is Canada directly sharing their information
5 with you?

6 DON COOL: This is NRC. They've been talking
7 with us. But I don't think I have seen Canadian data
8 directly.

9 RAY CLARK: I'm not aware of anywhere either,
10 EPA.

11 RALPH ANDERSON: I can give them a call.
12 It might be less complicated than if either of you reach
13 out as a federal agency. And, you know, we could either
14 reach through the utilities -- I do know some people
15 that you probably do in Canadian Government.

16 Probably my first blush effort would be to
17 reach out through the utilities. I'll take an action
18 to do that, see if we can touch something up to get some
19 direct data sharing with. And again, not trying to
20 supplant either of the agencies on that. But it occurs
21 to me that it might happen quicker without that.

22 I see that we've actually accosted our time.
23 So I guess what I would ask, recognizing that some of
24 you probably need to sign off right now. But are there
25 any other topics that you'd either like to touch on at

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1 the moment, or just push into tomorrow's agenda?

2 JIM: Ralph, this is INPO. Did you want
3 an email with the attendees for today's meeting as well,
4 like we did yesterday?

5 RALPH ANDERSON: Yes. I would like that.
6 My email address is, Romeo, Lima, Alpha, or RLA@NEI,
7 standing for Nuclear Energy Institute, dot org. And
8 starting this afternoon, then we'll publish what I
9 received yesterday and what I get today.

10 So if you could just send a brief list of
11 who was on the call. Use your own judgment as to whether
12 they were just a passer by, or whether they were really
13 a participant in the call. And I'll share that
14 information.

15 And again, I'm under the assumption that
16 either NRC or EPA, or both might be able to use that
17 information for their own documentation purposes. Is
18 that correct?

19 DON COOL: Yes. We're keeping notes on the
20 meeting. But since we are using a recorded line, we
21 also have a transcript.

22 RALPH ANDERSON: Very good.

23 RAY CLARK: We're not that formal.

24 RALPH ANDERSON: Okay.

25 DAVE CANDERRA: GE has a request. Based

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1 on an action item from one of yesterday morning's calls,
2 I tried to look into what kind, what the status of the
3 rad waste equipment at the site is. And really wasn't
4 able to get anything. And I was hoping one of the
5 Government entities, if they ran across any information
6 like that could pass that down the line.

7 RAY CLARK: What was that again, I'm sorry?

8 This is Ray.

9 DAVE CANDERRA: What's the status of the
10 rad waste equipment at the site, at the Fukushima site?
11 If there's any information that comes down o that, that's
12 something that we hope to get a hold of.

13 RALPH ANDERSON: Yes, that's a go to that,
14 Ray, that's a go to their ability to process the large
15 amounts of high activity water that they have in the
16 facility.

17 RAY CLARK: Okay. Yes.

18 RALPH ANDERSON: You know, rather than
19 making it go somewhere else that would be less desirable.

20 Something that would be helpful for my own edification
21 tomorrow, if I could ask you all to briefly touch tomorrow
22 on, in terms of problem solving and other things that
23 are going on?

24 This rad waste issue came up yesterday.
25 I'd like to gain some understanding of whether we actually

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1 have a mechanism in which efforts are being coordinated
2 across industry and the federal agencies. Or whether
3 we're essentially both doing our own thing.

4 I was asked that question last night by one
5 of our executives. I mean, I know there's a lot of talking
6 back and forth. But I really was interested in, are
7 we actually set up to do joint problem solving? Or are
8 there barriers to that that we ought to be taking a look
9 at?

10 I don't want to see Japan getting two
11 different answers to the same problem. So if you could
12 look into that a little bit. And we can touch on that
13 tomorrow. I would appreciate knowing that.

14 Thank you very much for your time. I hope
15 you got something out of this call. I think we did.
16 Any comments or suggestions for improvement would be
17 appreciated. Again, feel free to send me an email on
18 that. Our intent is just to continue doing these.

19 On our call yesterday we're still planning
20 that we would conduct these calls through the weekend,
21 with a sanity check on that on Friday. And see if that
22 -- So thank you, everybody.

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(CONFERENCE CALL INITIATED)

TIM HARRIS: PMT, Harris.

HEADQUARTERS OPERATIONS OFFICER: Oh, yes.

I've got Kate Gregory over in Japan for you all.

TIM HARRIS: Okay.

MALE PARTICIPANT: It's almost time.

TIM HARRIS: Hey, Kate.

KATE GREGORY: Yes.

TIM HARRIS: Are you with the site team?

KATE GREGORY: Yes, I am. Who am I talking to? I'm sorry.

TIM HARRIS: Tim Harris, Doug Coe, Nima Ashkeboussi, and Steve --

KATE GREGORY: Hi, I'm sorry. Actually, I'm not on the site. I'm actually with, sorry, I'm with the DoD task force. I'm in the engineer cell of the DoD task force. So I'm not with the guys on the site.

I got, actually, your number from Bill Cook (phonetic), who I've worked with on a lot of different odds and ends. But what I'm working on today is an option to set up some bladders to pump out the trench. Then, you know, because of the contamination in it, which people are worried about it getting into the ocean.

So we've identified a bunch of 200,000 gallon

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1 bladders. We've got 80 of them, that maybe we'll set
2 up if we can, to pump the contamination in the trench
3 into those. And so my question for you guys today is,
4 if in fact we do that, can you give me some information
5 on --

6 Because you can, you know, I don't want to
7 pump into bladders indefinitely. At some point my
8 leadership's going to say, okay once you get these bladders
9 full of this contaminated water, what do we do next?

10 Understanding this is TEPCO's problem and
11 all that, I just want to help get my leadership smart
12 on what is the, what are the, what might be the processes
13 in general that are used?

14 And if, in fact, there are treatment methods
15 in place, companies that do this, where they might be,
16 or who I might talk to to treat that kind of contamination?

17 And maybe you guys know more about this,
18 obviously you all know more than I do. But we're looking
19 at strontium and cesium 137, and iodine and xenon. Can
20 you guys help me?

21 TIM HARRIS: So it was strontium, iodine

22 --

23 KATE GREGORY: Cesium 137 and xenon.

24 TIM HARRIS: I'm pretty sure xenon's going
25 to be a gas, isn't it?

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1 MALE PARTICIPANT: Normally.

2 TIM HARRIS: Yes.

3 KATE GREGORY: Okay. Forget the xenon then.

4 I've got strontium, cesium 137 and iodine. So any
5 thoughts on any of this?

6 TIM HARRIS: Can we get our heads around
7 it and then give you a call back?

8 KATE GREGORY: Sure. Let me also give you
9 my email address.

10 TIM HARRIS: Sure.

11 KATE GREGORY: (b)(6)

12 (b)(6)

13
14 TIM HARRIS: Did you get all that, Nima?

15 NIMA ASHKEBOUSSI: Yes.

16 TIM HARRIS: You want to read the last part
17 back to her?

18 NIMA ASHKEBOUSSI: It's (b)(6)

19 KATE GREGORY: Yes. That stands for (b)(6)

20 (b)(6) okay. And my number here is -- You guys
21 probably don't have DSM. So my number here is commercial,
22 if you wanted to talk to me. Or just email me and I'll
23 call you back. It's probably easier that way, okay?

24 TIM HARRIS: Okay. Sure, Katherine.

25 KATE GREGORY: Thanks. Appreciate it. And

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1 just call me Kate, it's just Kate. Thanks.

2 TIM HARRIS: Kate. All right, Kate.

3 KATE GREGORY: Thanks. Bye, bye.

4 TIM HARRIS: Cheers.

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calling center. Please have your pass code and --

OPERATOR: Thanks for calling. Your pass
code, please?

JAY PATEL: Japan call.

OPERATOR: And your name with spelling?

JAY PATEL: NRC. This is Jay Patel.

OPERATOR: I'll place you. You have a nice
day.

FEMALE PARTICIPANT: Thank you.

OPERATOR: Your welcome.

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(CONFERENCE CALL INITIATED)

MIKE NORRIS: NRC Operations Center,
Protective Measures.

HEADQUARTERS OPERATIONS OFFICER: Mikey.

MIKE NORRIS: Yo.

HEADQUARTERS OPERATIONS OFFICER: Hey, I
got Alan Blamey from the Japan Team. I'll connect him
in.

MIKE NORRIS: Okay.

GREG CASTO: Hello.

ALAN BLAMEY: Hello. Who's there?

GREG CASTO: Greg Casto, Mike Norris, Lou
Brandon. Who do you want?

ALAN BLAMEY: This is Alan Blamey with the
Japan Team.

GREG CASTO: Hey, Alan, how are you doing?

ALAN BLAMEY: I'm doing good. Hey, we had
a request. We have, I think one of our military people
that's currently working with the Ministry of Defense
in Tokyo.

And what they're trying to do, they're trying
to run a first case, I guess, worse case dose to the
population. And you have to bear with me. I'm a reactors
guy. I'm not a protective measures guy.

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1 GREG CASTO: All right.

2 ALAN BLAMEY: But what they're looking for
3 to do this, I think they're trying to get a good source
4 term. And he wanted to, you know, initially try and
5 get GE involved, and understand what the good source
6 term would be.

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10 (b)(5)
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14 GREG CASTO: Right. Unit 3.

15 ALAN BLAMEY: Unit 3, okay.

16 GREG CASTO: That's 30 --

17 ALAN BLAMEY: Thirty-two.

18 GREG CASTO: It's almost 32.

19 MALE PARTICIPANT: Or 48 (inaudible).

20 ALAN BLAMEY: Okay.

21 GREG CASTO: But anyway, yes, yes. Well,
22 in fact, we were just over talking to the RST with this,
23 about something similar to this. Now, given what's
24 happened already, what might make sense would be, what's
25 the worst case that could happen moving forward.

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1 ALAN BLAMEY: Okay.

2 GREG CASTO: As opposed to what is the worst
3 case that could happen. Because a lot's already happened.

4 ALAN BLAMEY: That's correct.

5 GREG CASTO: So, you know, you're not going
6 to -- There's no reason to recreate that.

7 ALAN BLAMEY: Right.

8 GREG CASTO: Yes. So we're kind of
9 discussing that now, as far as, given where we are at
10 this point, what are we looking at as the worst that
11 could happen. And then what would be the second worst
12 thing that could happen.

13 ALAN BLAMEY: Okay.

14 GREG CASTO: And so we're discussing that.
15 That would maybe make sense. Now what are they looking
16 at? Are they looking again at -- Do they need to do
17 more to protect military base staff, or dependents, or
18 you know, what are they after?

19 ALAN BLAMEY: Well this right now, he's
20 working with the Japan Ministry of Defense.

21 GREG CASTO: Japan --

22 ALAN BLAMEY: So at this point in time, I'm
23 not specifically sure what the goal is. I think it would
24 be to help Japan come up with a worst case projection.

25 GREG CASTO: Well, yes. You know, that would

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1 be, it would be worth knowing.

2 ALAN BLAMEY: Okay.

3 DANIELLE: Yes. This is Danielle. I'm here
4 at OIP from, in the, I just got here a couple of days
5 ago with the ground team. So the other thing to consider,
6 and maybe you may know.

7 (b)(5)

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9 GREG CASTO: Well, I thought DoE was doing
10 that, weren't they?

11 DANIELLE: Okay, DoE did. Okay.

12 GREG CASTO: It wouldn't be us. DoE was
13 the one running the NARAC models.

14 MALE PARTICIPANT: NARAC combined
15 assessment.

16 GREG CASTO: Right. And those were the
17 combined assessments of multiple source terms from
18 multiple cores and/or spent fuel pools, to kind of bound
19 early on what would have been the worst case. What would
20 have been a more reasonable worst case. A number of
21 different scenarios were run. And those have been issued
22 by DoE.

23 ALAN BLAMEY: Okay.

24 GREG CASTO: And I thought those were --

25 DANIELLE: But does that mean -- But just

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1 because they issued them, does that mean that they provided
2 the, also the assumptions with it? Or the --

3 GREG CASTO: To the Japanese Government.
4 That was -- We understand that was the ultimate intent.
5 You'd have to ask DoE. I mean, we could call the NIT,
6 and see exactly where those went, and get back with you.

7 MALE PARTICIPANT: Each case had a brief
8 description, like 33 percent core damage for Unit 2.
9 And --

10 GREG CASTO: Right.

11 MALE PARTICIPANT: -- a percent for Unit
12 3 --

13 GREG CASTO: Right.

14 MALE PARTICIPANT: -- stamped on the --

15 DANIELLE: Okay. Because it was my
16 understanding that we shared that information with France,
17 Canada and the U.K., but not anyone else. Maybe that's
18 changed?

19 GREG CASTO: Yes. And I'm not sure. I know
20 there was an -- A couple of days ago there was the intent
21 to provide information to the Japanese Government.

22 DANIELLE: So it sounds like --

23 GREG CASTO: Just a couple --

24 DANIELLE: -- we handed that off to DoE?

25 GREG CASTO: Yes.

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1 MALE PARTICIPANT: The DoE NIT was
2 controlling distribution of the varying products.

3 GREG CASTO: Right, right.

4 ALAN BLAMEY: So it really sounds like
5 perhaps the best path forward right now is to interface
6 with DoE, and see what they've actually shared. And
7 if they've already shared it with a portion, perhaps
8 through NISA --

9 GREG CASTO: I know.

10 DANIELLE: Yes.

11 ALAN BLAMEY: -- as an example.

12 GREG CASTO: Right.

13 ALAN BLAMEY:

14 (b)(5)
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17 DANIELLE: Yes.

18 ALAN BLAMEY:

19 (b)(5)
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22 (b)(5)
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(b)(5)

GREG CASTO: Right.

(b)(5)

ALAN BLAMEY: But they're going to have the specific details.

GREG CASTO: Well, but what you would -- I guess it would depend on what you're looking to do. For instance, your worse case say compared. Do a comparison of what it looks like has happened already, with the field measurements that the Japanese Government has done through NISA and through TEPCO, just to compare to see --

DANIELLE: Yes. And so maybe --

GREG CASTO: It looks like they're seeing what they should have seen. That makes sense.

DANIELLE: Maybe if MOD, you know, doesn't have what they want, it would also be helpful, generally speaking, if PMT does update your assumption based on the new worst case scenario, if you just kept us in the loop --

GREG CASTO: Right.

DANIELLE: -- with the facts. I don't know if you ordinarily would have seen that, otherwise.

GREG CASTO: Yes, I don't know if we would

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1 have seen that or not. But I'm sure that our PMT people
2 will be up on that too.

3 ALAN BLAMEY: Right.

4 GREG CASTO: So I guess, going forward --

5 ALAN BLAMEY: I would --

6 GREG CASTO: -- probably the best thing to
7 do then, I could call -- Well, before we call Condo
8 (phonetic) back --

9 ALAN BLAMEY: Okay.

10 GREG CASTO: --

11 (b)(5)
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24 ALAN BLAMEY: Right.

25 GREG CASTO:

(b)(5)

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(b)(5)

But quite frankly, my gut feeling is, you're going to be trying to measure with a micrometer, then cut with an ax. So it will be wasted time and money.

ALAN BLAMEY: Could be.

GREG CASTO: That's just my gut feeling.

ALAN BLAMEY: Right. Especially when you don't -- I mean, you might know core inventories, and spent fuel pool inventories. But you don't know --

GREG CASTO: Yes, you're not going to know all the specifics.

ALAN BLAMEY: Yes, right, right. Percent damage, you know, percent release, even the --

GREG CASTO: Yes, with the other uncertainties. And I would think damage would be a big uncertainty. As long as you hit a certain threshold with exposure --

ALAN BLAMEY: Right.

GREG CASTO: -- I would think core damage is going to be a much larger uncertainty going into that calculation. I mean, (inaudible).

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1 ALAN BLAMEY: Yes.

2 DANIELLE: But since they may -- They may
3 also be interested in how it may be updated, like the
4 PMT's thinking about doing.

5 GREG CASTO: That would be, I think that
6 may be beneficial.

7 DANIELLE: Yes.

8 GREG CASTO: That they could benefit from
9 that thought process. And then do with it what they
10 want to.

11 DANIELLE: Yes, because --

12 GREG CASTO: Modify it or --

13 DANIELLE: --they're probably also thinking
14 about re-entry. That's, I'm thinking that might be --

15 GREG CASTO: Right.

16 ALAN BLAMEY: Right.

17 GREG CASTO: In our looking at that, the
18 first question we're asking is, all right, what else
19 can happen?

20 ALAN BLAMEY: Yes.

21 GREG CASTO: So we've been, that's where
22 we're looking at, given where we are right now, what's
23 the new, most reasonable, worst case event that can occur?

24 ALAN BLAMEY: Right.

25 GREG CASTO: And then we can play with that,

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1 and see what those consequences are going to be for our
2 EPZ.

3 ALAN BLAMEY: Okay.

4 GREG CASTO: And then, yes, that may help
5 us decide, for instance, if the off site environmental
6 sampling, how closer to 50 miles supports the dose criteria
7 in EPA 500? Then will we look at bringing in the circle?
8 And that's kind of what we've discussed as the general
9 logic for reducing our protective actions.

10 ALAN BLAMEY: Okay.

11 GREG CASTO: If that makes sense. But maybe
12 they would be interested in that. It would be nice to
13 know what, you know, what they're looking for. I think
14 that would help us help them, for instance.

15 ALAN BLAMEY: Yes. When I talked with them,
16 they were really interested in the source term. But
17 it sounds like that's just one of the components that
18 goes into this.

19 GREG CASTO: Yes, yes. It's all a guess.

20 ALAN BLAMEY: Yes.

21 DANIELLE: In the meantime, if you could
22 find out who at DoE with your contacts are providing
23 the initial data to, maybe finding out who they shared
24 it with? you can either provide us with the pathway
25 at DoE, or just inquire with them.

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1 GREG CASTO: Okay.

2 DANIELLE: And we'll inquire with our DoE
3 rep here.

4 GREG CASTO: All right. We'll see if we
5 get the same answer.

6 ALAN BLAMEY: Okay.

7 GREG CASTO: Okay. So we'll call, and we'd
8 be calling the NIT.

9 DANIELLE: Okay.

10 GREG CASTO: Okay. So we can do that and
11 see --

12 ALAN BLAMEY: Okay.

13 GREG CASTO: -- what we hear.

14 ALAN BLAMEY: And then if you want to touch
15 base with Danielle out here.

16 GREG CASTO: Yes.

17 ALAN BLAMEY: And let's see, we have two
18 people from Region I that are down as well, that are
19 doing the PMT function down here.

20 GREG CASTO: Okay.

21 ALAN BLAMEY: So I think interfacing with
22 them would probably be beneficial as well. And then
23 we can re-group, and perhaps even bring DoE into it,
24 if we have to.

25 Because they're involved in this process.

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1 And once we do that, determine what would be available
2 that we could transmit to the Ministry of Defense here.

3 GREG CASTO: Okay.

4 ALAN BLAMEY: And if we can't meet their
5 needs, perhaps options for them.

6 GREG CASTO: Okay.

7 ALAN BLAMEY: Does that sound reasonable?

8 GREG CASTO: Sure.

9 DANIELLE: And you can email your answers
10 to the LT. And they know how to get it to us. It might
11 easier than, you know --

12 GREG CASTO: All right.

13 DANIELLE: -- putting all of our names.

14 GREG CASTO: Okay, we'll do that.

15 DANIELLE: Okay.

16 GREG CASTO: All right.

17 ALAN BLAMEY: And if you'll send everything
18 through Danielle right now? My email's been down. I
19 haven't got a chance to try it after lunch. But it was
20 down this morning. There's some hard error that's going
21 on. I hope they just have servers down.

22 GREG CASTO: Okay. All right. We'll work
23 on that.

24 ALAN BLAMEY: Okay, great. And I'm not sure,
25 to tell you the truth, I'm not sure of the timing that

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1 they're looking for here.

2 GREG CASTO: All right.

3 ALAN BLAMEY: But, you know, I'm not telling
4 you to make it a high priority. But at the same time,
5 I think they're probably going to want to try and move
6 forward on it too.

7 GREG CASTO: Yes. It should be pretty easy
8 to find out what DoE has submitted to who.

9 ALAN BLAMEY: Okay.

10 GREG CASTO: And that would be the way --

11 ALAN BLAMEY: Okay. Sounds good.

12 GREG CASTO: All right.

13 DANIELLE: Okay.

14 ALAN BLAMEY: Great, thanks.

15 GREG CASTO: Oh, are we still going to do
16 a 3 o'clock call?

17 MALE PARTICIPANT: That would be with the
18 PMT people.

19 ALAN BLAMEY: That would be Danielle, right?

20 GREG CASTO: No.

21 MALE PARTICIPANT: I've got, yes, who is
22 it, Marie Miller and --

23 DANIELLE: Yes, Marie.

24 GREG CASTO: Yes, Marie.

25 ALAN BLAMEY: Marie and Todd?

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1 MALE PARTICIPANT: Yes.

2 GREG CASTO: Todd, yes.

3 ALAN BLAMEY: Okay.

4 GREG CASTO: Yes. And I know they were
5 planning on a call. I assume 3:00 will probably work
6 for them, if it's already been communicated to them.

7 ALAN BLAMEY: Okay.

8 MALE PARTICIPANT: That's typical.

9 ALAN BLAMEY: All right.

10 GREG CASTO: You may want to try --

11 ALAN BLAMEY: Oh, for some reason I thought
12 Danielle was the new PMT contact.

13 GREG CASTO: Sounds good. Thank you.

14 ALAN BLAMEY: All right, we'll see you.

15 GREG CASTO: So long.

26
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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Ops Center, PMT.

HEADQUARTERS OPERATIONS OFFICER: Yes, Greg,
I got the Japan Team on the line.

GREG CASTO: Okay, thanks, Howie.

HEADQUARTERS OPERATIONS OFFICER: Okay.

GREG CASTO: Hello.

MARIE MILLER: Yes, hi, is this Nina?

GREG CASTO: This is PMT.

MARIE MILLER: PMT, hi, it's Marie Miller.

GREG CASTO: Hey, Marie, this is Greg Casto.
How are you doing?

MARIE MILLER: Hi, Greg. They said that
there's a new line. The other one wasn't working. Do
you have a number for that?

GREG CASTO: A new line. This is 5419.

MARIE MILLER: Okay. That's the one I --

GREG CASTO: I think I was on the phone.

MALE PARTICIPANT: Yes, he was on the phone.

GREG CASTO: I think it's the one --

MARIE MILLER: Oh, okay. So that's the
backup. Okay. Two things. One, thanks very much for
the work on the information for return criteria.

GREG CASTO: Okay.

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1 MARIE MILLER: That was going to be useful,
2 you know, for further discussion later. Actually, the
3 meeting we went to turned out to be -- They're interested
4 in return to Tokyo. They misunderstood. When they said
5 return, you know, we're thinking, you know, return to
6 --

7 GREG CASTO: Right, to the EPZ. Or, yes,
8 to our -- Right.

9 MARIE MILLER: So anyway, so what they're
10 looking at is, they have, I guess --

11 GREG CASTO: Who's they?

12 MARIE MILLER: Oh, the Embassy folks.

13 GREG CASTO: Okay.

14 MARIE MILLER: Two hundred Embassy people
15 that have been sent on orders away. And then the military
16 has about 5500 people away. So it's Tokyo and further
17 away that are basically on orders to go, you know, to
18 be away for 30 days. And to come back after April 15th.

19 So what we're tasked with, which we're going
20 to be sending you this, is to do a dose projection on
21 looking at perhaps a current, our understanding of current
22 conditions.

23 And then a plausible pessimistic scenario,
24 not a worst case scenario, to assure that it doesn't
25 look like Tokyo would be impacted if that plausible

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1 pessimistic scenario were to occur. So --

2 MALE PARTICIPANT: We couldn't get it fair
3 with --

4 MARIE MILLER: But it's all, you know,
5 conditions that, based on our understanding, are all
6 typed up. And we'll send it to you. Obviously, you know,
7 you'll want to vet it with the Reactor Safety Team.
8 And, you know, we can, you know, talk about it some more.
9 We don't need the product until next Wednesday --

10 GREG CASTO: Okay, hold --

11 MARIE MILLER: So surprise, surprise, you
12 have lots of time for --

13 GREG CASTO: Hold on, hold on. Hold on.

14 MARIE MILLER: So we probably --

15 MALE PARTICIPANT: Let her --

16 MARIE MILLER: We'd like to have something
17 though around the Sunday time frame, so we could then
18 just kind of shoo on, you know, a little bit more. But
19 we don't have to provide it to the Ambassador until
20 Wednesday.

21 GREG CASTO: Okay. Here's what would happen
22 with this. This would have to be a NARAC run.

23 MARIE MILLER: Yes.

24 GREG CASTO: So this would have to be
25 coordinated through DoE. And one of the things we're

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1 working on now is what that worst case would be, given
2 where we are right now.

3 MARIE MILLER: Right. And actually, what
4 they're looking -- That's the whole thing, that they,
5 we were -- Based on the meetings that we had here with,
6 you know, Chuck Casto and John Monninger, and (inaudible)
7 --

8 GREG CASTO: Yes.

9 MARIE MILLER:

10
11 (b)(5)
12
13
14 --

15 GREG CASTO: Right.

16 MARIE MILLER: -- NARAC. So what we would
17 like to do is send this to the PMT team, do be discussed
18 with the Reactor Safety Team. And then the ET team would
19 take this forward to coordinate getting this run done
20 through NARAC.

21 GREG CASTO: Okay.

22 MARIE MILLER: And this is with -- So,
23 because ultimately it would be used to -- There's
24 different purposes. Everybody has a different run for
25 a different purpose. And it's clear.

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1 The purpose here is to see whether or not
2 there can be some normalcy returned to Tokyo. And so
3 we're not looking at anyone going beyond (inaudible)
4 the 50 mile zone. But, and actually, looking at using
5 this run for defining, you know, your --

6 What are we, 170 miles, I don't know how
7 far away I am. But, you know, for -- It's the Metropolitan
8 Tokyo area. So this run would be used to support return
9 to Metropolitan Tokyo.

10 GREG CASTO: right.

11 MARIE MILLER: I didn't realize that there
12 were that many people that are on orders that are away
13 --

14 GREG CASTO: Right. Now I guess --

15 MARIE MILLER: -- in this area.

16 GREG CASTO: Okay. Now I guess, since there
17 were orders given for these people to leave, evacuate,
18 whatever, based on some lesser criteria than exceeding
19 PAGs.

20 MARIE MILLER: Sure.

21 GREG CASTO: Because we -- You haven't --

22 MARIE MILLER: (Inaudible).

23 GREG CASTO: Right. You haven't promoted
24 --

25 MARIE MILLER: They want to be able to say

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1 that --

2 GREG CASTO: -- that we're going to do PAGs
3 in --

4 MARIE MILLER: I mean, I'm sorry. I'll let
5 you finish.

6 GREG CASTO: No, I'm sorry. Well, since
7 we never projected exceeding PAGs in Tokyo, then the
8 decision to relocate these people was made on some other
9 criteria?

10 MARIE MILLER: Yes.

11 GREG CASTO: So what was that criteria?
12 And would we be looking at, you know, a plausible or
13 hypothetical release, that would not exceed that? We
14 need to know what that was. Because we certainly don't
15 know what that is.

16 MARIE MILLER: Right. That's what we've
17 developed here. That's what we spent the day here working
18 on.

19 GREG CASTO: Okay.

20 MARIE MILLER: What would be that plausible
21 pessimistic, which is, we're purposely not using the
22 words, worst case.

23 GREG CASTO: Yes.

24 MARIE MILLER: So, and for example, I mean,
25 it's all written down. And we can talk about it further.

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1 But what we're looking at is one core melting through,
2 through either a steam or hydrogen explosion.

3 And then a zirconium fire in one of the spent
4 fuel pools, that has -- And we selected the Reactor
5 Unit 1, which is thought to have about 80 percent core
6 damage. And the spent fuel pool 4, which is expected
7 to have about 60 percent fuel damage.

8 And that the spent fuel pool fire would start
9 25 hours after the explosion at the reactor. Because
10 basically, they evacuate the site, and then their
11 contingency measure that they have in place now stops.

12 MALE PARTICIPANT: Yes.

13 GREG CASTO: So you're in -- Okay. So the
14 scenario you were thinking about was the Unit 1 core
15 melt through basically?

16 MARIE MILLER: Right.

17 GREG CASTO: And the resulting hydrogen
18 explosion that could possibly result?

19 MARIE MILLER: It takes it off site more,
20 yes. To give some energy to the release.

21 GREG CASTO: Yes. And then the Unit 4 --

22 MARIE MILLER: The fire.

23 GREG CASTO: -- fire.

24 MARIE MILLER: With 60 percent fuel damage.
25 And starts 24 hours later. Because right now, I think

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1 the other run has everything kind of happening all at
2 once --

3 GREG CASTO: That --

4 MARIE MILLER: -- and a higher source term.

5 Oh, and the other part to that is, that we use a time
6 period of decay, that this happens after April 15th.
7 Because they're not going to move people until after
8 April 15th. So --

9 GREG CASTO: Okay. And that's the third
10 part is --

11 MALE PARTICIPANT: So you got a month to
12 shut down basically.

13 GREG CASTO: Right.

14 MARIE MILLER: Right.

15 GREG CASTO: Okay. To April 15th. Event
16 --

17 MARIE MILLER: And then John also had, you
18 know -- And then maybe do another run like that would
19 be four weeks after, you know, and then another two weeks
20 after that. But I think maybe it might be good just
21 that we do this, you know --

22 GREG CASTO: Do the one.

23 MARIE MILLER: -- fist cut at it.

24 GREG CASTO: Okay.

25 MARIE MILLER: And, you know, because that

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1 would -- I think that it's -- And then to save it.
2 And then just, that would be one parameter change that
3 we could always, you know, deal with that later.

4 GREG CASTO: Okay. And now, do we have --
5 Okay, given that, do we have the re-entry criteria that's
6 being used for Embassy and military personnel?

7 MARIE MILLER: We're not looking for --
8 The criteria, as you say, the decision --

9 GREG CASTO: Yes.

10 MARIE MILLER: -- was not based on those.
11 It was based on a number of things, the earthquakes
12 --

13 GREG CASTO: Okay.

14 MARIE MILLER: -- the uncertainties --

15 GREG CASTO: All right. I got you.

16 MARIE MILLER: There were many decisions.

17 GREG CASTO: Yes.

18 MARIE MILLER: So in their press release,
19 once they have this, they're going to say, based on,
20 you know, obviously the same point that you had. We
21 told people to leave because these were the conditions.

22 This is how it's changed. This is our, you
23 know, we feel it's safe to return because -- You know,
24 while there are continuing releases from the facility,
25 they're low and not expected to have any health impacts.

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1 GREG CASTO: Yes.

2 MARIE MILLER: And then from a standpoint,
3 while the facility at the plant is not stable yet, you
4 know, looking at plausible scenarios as to if things
5 were to get worse, you know, doses in the Metropolitan
6 Tokyo area would not, you know, would not be expected
7 to impact health.

8 GREG CASTO: Got you.

9 MARIE MILLER: And then they're going to
10 say some stuff about quality of life. That, you know,
11 given everything, it's good to return.

12 GREG CASTO: Okay. Got you. I understand
13 that.

14 MARIE MILLER: And then the, and they are
15 not looking at doing anything with this 50 mile at this
16 time at all. They're just, I think, there's enough
17 uncertainty, people feeling uncomfortable that, I think
18 they want to like start close in.

19 And they also feel that this first gesture
20 -- Why they want to try to get this out is because that
21 would, you know, ultimately help the economy. You know,
22 some return to normalcy. I mean, we went out -- Last
23 night was my first night. Because I went out, you know,
24 for dinner.

25 So it was really, you know, so don't have

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1 many data gigapoints here. But it was amazing how empty.

2 You know, we went to like the popular place. And, you
3 know, there was three people in the restaurant, you know.

4 So it really is very empty.

5 GREG CASTO: Okay.

6 MARIE MILLER: But that's what they're
7 trying to -- That's why this calculation is -- We're
8 not trying to do a worst case, but obviously trying to
9 be responsible in putting a good perspective.

10 And, you know, attract (inaudible) so many
11 miles away, that, you know, it would seem like, you know,
12 there would be reasons that people could start returning.

13 GREG CASTO: Right.

14 MARIE MILLER: They're saying airline crews
15 are getting, difficulty having airline crews, manning
16 flights, and all sorts of things. So this ultimately
17 would help. It would, while it's for Embassy personnel,
18 it would, you know, actually impact a lot of businesses
19 and, you know, the economy overall.

20 GREG CASTO: Okay. All right.

21 MARIE MILLER: So Todd will send this to
22 you. And --

23 GREG CASTO: Yes.

24 MALE PARTICIPANT: We got it.

25 GREG CASTO: We just got it.

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1 MARIE MILLER: -- I think we --

2 MALE PARTICIPANT: We got it.

3 GREG CASTO: I think we just got it.

4 MARIE MILLER: Good, good. And, you know,
5 obviously that -- We vetted it here with the Reactor
6 Safety Team. And, you know, with John Monninger and
7 Dan Dorman, and everyone.

8 But, you know, obviously, you know, another
9 set of eyes on that would be fine. And then, you know
10 -- So I think Sunday if we had some like early drafts.
11 So that we could then have something for Wednesday,
12 would be fine.

13 GREG CASTO: Okay.

14 MARIE MILLER: Okay?

15 GREG CASTO: Got you. Okay. Yes, we can
16 --

17 MALE PARTICIPANT: Well, I mean, we can do
18 the RASCAL runs.

19 GREG CASTO: Yes, we can --

20 MALE PARTICIPANT: But they're still going
21 to have to go to NARAC.

22 GREG CASTO: Right, yes. Our key thing's
23 going to be coordinating with NARAC to get this.

24 MARIE MILLER: Right, right.

25 GREG CASTO: To get this run.

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1 MARIE MILLER: Yes. And I think with only
2 RASCAL runs would, you know, would give a sense of what,
3 you know, some perspective, which is -- That's another
4 piece that --

5 What we'll put together here, we're putting
6 together a dashboard, that they're going to be using
7 to say, for trend purposes, you know, how are things,
8 you know, done. And I kind of talked about --

9 Now they added a parameter with regards to
10 the ongoing (inaudible). They want to be able to say,
11 you know, outside the 50 miles is this, you know, stable,
12 unstable, you know, or danger, you know, not okay.

13 GREG CASTO: Right.

14 MARIE MILLER: And so, you know, obviously
15 right now we're saying it's, you know, stable and low
16 health risk, outside the 50 kilometers. But they're
17 going to be tracking that on a daily basis.

18 GREG CASTO: Okay. All right.

19 MARIE MILLER: All right. So we'll, I'll
20 still do the 4 o'clock call. Because there actually
21 are a couple of other exciting things happening here
22 today.

23 GREG CASTO: Yes.

24 MARIE MILLER: But we just wanted to give
25 that to you, so, you know, recognizing that, you know,

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1 there's going to be a lot of coordination on your end
2 to get that to happen.

3 GREG CASTO: Okay. Allright. While you're
4 on the phone, let me cross something with you real quick.
5 We just got a call about a half an hour ago from Alan
6 Blamey and Danielle.

7 MARIE MILLER: Yes.

8 GREG CASTO: And they were looking for --
9 They had a request from the Japanese Ministry of Defense
10 --

11 MARIE MILLER: Yes.

12 GREG CASTO: -- source term information.

13 MARIE MILLER: Yes.

14 GREG CASTO: Very similar to what had been
15 done on the NARAC runs.

16 MARIE MILLER: Yes.

17 GREG CASTO: We talked to the NIT. And the
18 NIT told us that two NARAC runs had been presented by
19 Ruth to the Assistant to the Prime Minister --

20 MARIE MILLER: Yes.

21 GREG CASTO: -- we think somewhere around
22 the 25th, recently. And we weren't sure, but it didn't
23 sound like the Ministry in a sense was aware of that
24 information being provided.

25 MARIE MILLER: Yes. That is something that

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1 we told Alan to turn that off. That that's something
2 that at higher levels they're discussing that. Because
3 you have the military, yes, Admiral Ruth, you know, doing
4 certain things. And so we're, at our level, are not
5 releasing anything. And so --

6 GREG CASTO: Right.

7 MARIE MILLER: -- Alan --

8 GREG CASTO: And we weren't -- Right. And
9 we weren't intending that. We were just trying to answer
10 the question on where the information went.

11
12 (b)(5)
13
14
15

16 MARIE MILLER: Right, right. And that
17 information apparently is a, you know, a worst case
18 synopsis. That it certainly, you know, does kind of
19 the opposite of what we were talking about --

20 GREG CASTO: Right.

21 MARIE MILLER: -- as far as what it could
22 to do for Tokyo and the economy. So --

23 GREG CASTO: Right. And it makes sense to
24 move forward. Because they should have an understanding
25 of what they, you know, what's happened to this point.

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1 MARIE MILLER: Right. And then there's
2 going to be a lot of pressure for this product then to
3 be shared, for like other reasons. And my guidance,
4 I've been directed, is not to share this with anyone
5 until NRC's really thought about it. Because, you know,
6 when these things come out they take on like all sorts
7 of lives of their own, you know.

8 GREG CASTO: Yes, they do.

9 MARIE MILLER: For other purposes.

10 GREG CASTO: Right. And the other thing
11 we're finding too is, once we release, for instance,
12 a source term, the NARAC runs go, and DoE controls them.
13 And we don't always see them.

14 MARIE MILLER: Right, right.

15 GREG CASTO: We don't get to peruse them
16 before they're officially submitted. They're just
17 submitted. So we run into that as well.

18 MARIE MILLER: Right. So Alan talked about
19 that. So he's kind of turning that off.

20 GREG CASTO: Okay, good.

21 MARIE MILLER: I mean, obviously, you know,
22 Chuck and, we'll talk to higher levels about this issue
23 because --

24 GREG CASTO: All right.

25 MARIE MILLER: -- of politics.

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1 GREG CASTO: Okay. Well we'll just get
2 information to Alan and Danielle, just on what we know.
3 And then that will be the end of it.

4 MARIE MILLER: Sure. Feel free to get back.
5 But Alan, you'll get confirmation, you know, on that.

6 GREG CASTO: Got you. Okay.

7 MARIE MILLER:

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10 (b)(5)
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13 GREG CASTO: Okay, good.

14 MARIE MILLER: And then we want to talk about
15 rad protection contamination control too.

16 GREG CASTO: Right.

17 MARIE MILLER:

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19 (b)(5)
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23 (b)(5)
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1 GREG CASTO: Oh, wow.

2 MARIE MILLER: So it was very nice gesture.
3 So that gives you an idea of how rapport is improving,
4 I think.

5 GREG CASTO: Oh, wow.

6 MARIE MILLER: From not talking to feeding
7 us.

8 GREG CASTO: Right.

9 MARIE MILLER: All right.

10 GREG CASTO: Well you're eating better than
11 we are then.

12 MARIE MILLER: Talk to you guys later.

13 GREG CASTO: Okay. All right. Thanks a
14 lot.

15 MARIE MILLER: Bye.

16 GREG CASTO: We'll see you.

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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Protective Measure Team.

HEADQUARTERS OPERATIONS OFFICER: Yes, I got Marie Miller.

GREG CASTO: Okay, we're on another line.

HEADQUARTERS OPERATIONS OFFICER: Well she's calling in from Japan. What would you have me do?

GREG CASTO: Oh, put her on, sure. Hold on a second. We've got two calls.

HEADQUARTERS OPERATIONS OFFICER: We've got two calls going. Just a second.

MARIE MILLER: No problem.

BRUCE MUSICO: Marie, are you on?

MARIE MILLER: Yes, I am.

BRUCE MUSICO: Yes, this is Bruce Musico. Greg is on the other line right now, if you can just hold for a second.

MARIE MILLER: Sure.

(Background conversations)

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(CONFERENCE CALL INITIATED)

MIKE NORRIS: Hey, Marie, this is Mike
Norris.

MARIE: Yes, hi, Mike.

MIKE NORRIS: Yes. Is this our normal call
with you at 3 o'clock.

MARIE: Yes. Well, 4 o'clock.

MIKE NORRIS: Yes, it's 4 o'clock your time
probably It's 3 o'clock our time.

MARIE: Oh, okay.

MIKE NORRIS: Do you want to, could you do,
like in 30 minutes call again?

MARIE: Oh, sure. That would actually --

MIKE NORRIS: That way we can settle things

--

MARIE: -- be better.

MIKE NORRIS: Okay.

MARIE: I'll call in 30 minutes.

MIKE NORRIS: Yes, that way we can be settled
in and can talk to you.

MARIE: Oh, no problem. Okay.

MIKE NORRIS: All right.

MARIE: All right. Bye.

MIKE NORRIS: Bye.

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(CONFERENCE CALL INITIATED)

RECORDING: We're sorry, you have dialed
a number which cannot be reached from your calling area.

Thank you.

MALE PARTICIPANT: 772-3482.

RECORDING: We're sorry --

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(CONFERENCE CALL INITIATED)

RECORDING: We're sorry, you have dialed
a number which cannot be reached from your calling area.

Thank you.

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(CONFERENCE CALL INITIATED)

HEADQUARTERS OPERATIONS OFFICER: NRC Ops
Center, recorded line.

DON COOL: Good morning, this is Don Cool
in the PMT area. I was trying to get into an international
conference call. And it's telling me I haven't got the
number correct. But I'd like you to try dialing it.
The number that we're trying to dial was 800-772-3482.

HEADQUARTERS OPERATIONS OFFICER: You got
the wrong number. It's 3842.

DON COOL: 3842.

HEADQUARTERS OPERATIONS OFFICER: Correct.

DON COOL: All right, we'll try that. That
would make a difference. Thank you, sir.

RECORDING: Welcome. You have reached the
audio conferencing system. This call may be recorded.
After the tone enter your conference security code,
followed by the pound key. Thank you. After the tone,
please state your name and organization, followed by
the pound key.

DON COOL: NRC Protective Measures Team.
Good morning, this is the NRC's Protective Measures Team
joining the call.

MALE PARTICIPANT: Good morning.

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1 MALE PARTICIPANT: Good morning, Canada
2 here.
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: We understand ASM is also
on the line.

MALE PARTICIPANT: Okay. Good afternoon.

MALE PARTICIPANT: Good morning.

MALE PARTICIPANT: Okay, good morning. If
we have everybody available, shall we just go, do we
want to mention any names on, around the countries?
Or are we happy with the nation names being shouted out?

MALE PARTICIPANT: I think we know most of
the names by now.

MALE PARTICIPANT: All right, thank you.

MALE PARTICIPANT: Or a combination of
those.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Okay. If anybody else
have any questions, we'll ask them through the normal
routines. Does anybody else have any other information
with regard to plant status, in addition to that that
has been published by JIF and the IEA?

DON COOL: I don't believe that we have
any here in NRC. Things continue to be tenuously holding.

MALE PARTICIPANT: Neither do we. The
information we have is as of 0500 UTT March 30.

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1 MALE PARTICIPANT: Okay. That's the same
2 information that we have on that. Do you want to lead
3 the rest of the presentation?

4 MALE PARTICIPANT: Yes. Well we come to USNRC
5 for 73 SAM-Gs. I think Ali (phonetic) may want to pick
6 up on that one.

7 MALE PARTICIPANT: Yes, they did. Thank
8 you, also. We got those early this morning. Thank you.

9 MALE PARTICIPANT: Yes. So we'll go through
10 them. I think we'll still go through the plant status
11 first. I'm particularly interested in this one. I've
12 been out by some of our other ministries for some advice
13 on this.

14 So I've been drafting a note. But I'd be
15 curious to just get some confirmation of some facts as
16 I understand them, which has been gleaned from the website.

17 But I've been looking at the pressure and
18 temperature transients, and trying to make some semblance
19 of sense from them, which is a bit difficult at times.

20 Because some of the stuff on the IAA website is
21 demonstrably not correct.

22 Because it's below atmospheric compression,
23 some of the pressures. And I think what they've done
24 is, they've caught a gauge that is absolute, and things
25 like this. So it's a bit confusing.

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1 But I think still, they're open trends.
2 Because if you particularly look at the pressures, there's
3 more than one pressure indication. And you tend to get
4 the pressure indication both in the primary vessel, in
5 the reactor pressure vessel, but also in containment.

6 And you tend to see, when there's a change
7 in the pressure in one that's also in the other, which
8 at least if you somehow, that the instrumentation is
9 at least showing relative trends correctly.

10 And I think from that there's some encouraging
11 signs, particularly if you look at Reactors 2 and 3.
12 Because it's indicating that the pressures are actually
13 quite low, which is all sort of good confirmation with
14 --

15 And if you look at the flows going, the flows
16 look sensible, what you would expect the relative amount
17 of decay you've got at this time. You therefore expect
18 temperatures to be typically around the saturation
19 pressure of the injection means, whatever pressure their
20 injections are heading.

21 Indeed, you know, some of the temperatures
22 are in the (inaudible) in 100 degrees c. But not massively
23 120, 130, that sort of range. Some are below 100 degrees
24 c, which probably implies the thermocouple seeing feed
25 directly from the feed nozzle, and before it's mixed

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1 with anything else, possibly.

2 But there are some temperatures which are
3 hard to understand. And I'm particularly looking at
4 Reactor 1. The nozzle temperature there is, it is --

5 I know it's stabilized a little bit. This is quoting
6 from the other day. But it was about 323. I think it
7 may have just gone on -- Somebody told me today it's
8 down under 300 degrees.

9 But it's still, it's massively above
10 saturation temperature for the sort of pressures that
11 think are credible, given that they're injecting in.
12 My only interpretation of this is, for whatever reason,
13 the thermocouple is not actually represented in a bolt
14 temperature. But for some reason it's either the --

15 Either the calibration of the thermocouple
16 has been affected by the incident, which is certainly
17 feasible. Or, alternatively, maybe some fission product
18 has been deposited on that, near that thermocouple, and
19 it's seeing that.

20 And it's certainly possible that, you know,
21 particulate, what joined the, particularly the vigorous
22 reactions that will be going on when they're producing
23 hydrogen, could easily have been transported around the
24 circuits of one of the thermocouples that's there for
25 measuring high. I don't mean it's too untoward.

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1 The only reason I'm asking about R1 is because
2 the temperatures are higher. But it's also noticeable
3 that the pressures are somewhat higher on that reactor.

4 They're not massively high. But they're, you know,
5 depending on which pressure gauge you look at

6 But that's indicative of the (inaudible)
7 actually. Four to six bond in the primary circuits.
8 And these may not be the most recent up to date ones.
9 But things are pretty stable anyway. The drywell
10 pressures of about just under three bar.

11 And it wasn't, this observation earlier in
12 the week. The dose in the direction pool for that
13 particular reactor is actually also higher than the other
14 reactors. Then the drywells are all in tens of sievert
15 per hour, 36, 40, 29.

16 But you go to the suppression tapes for the
17 R2 and R3, they're about an odd magnitude down on that,
18 at about 1 milli, one sievert per hour. Whereas, in
19 the, in spent fuel suppression pool on Reactor 1, it's
20 comparable with the drywell. It's about 20 sieverts
21 per hour.

22 So I was just wondering, is there anything
23 about the design of R1 which would explain why the pressures
24 appear slightly higher? Why, possibly, the temperatures
25 may be higher?

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1 Although I think that is more anomaly than
2 the reading. Or any explanation of why the dose in the
3 suppression pit is higher? And I just wondered does
4 anybody else have any views on those issues?

5 MALE PARTICIPANT: (Foreign language
6 spoken)

26

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I guess people are still thinking about that question. Is there any clarification, or --

DON COOL: Well, this is the NRC at Headquarters.

MALE PARTICIPANT: Yes.

DON COOL: The Protective Measures Team. The principle thing I think that needs to be noted on the data, and that can be derived from the data, is that the Unit 1 containment is still holding. It's obviously containing pressure.

Whereas, the other two reactors, we believe Unit 2 had a breach of containment, actually a hole in it. And Unit 3 probably same situation. But we never got that confirmed. Other than they believe the leak rate was, the designed leak rate was, it was well above the designed leak rate. Excuse me.

Secondly, Unit 1, with the high radiation readings in the suppression chamber, the torus area, that would indicate that a significant amount of material was dumped into the torus, which is what the thing's designed to do, from the reactor, or the containment, upper part of the containment into the torus, which is

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1 the lower part of the containment.

2 And so a significant amount of radioactive
3 material was contained by the primary containment, which
4 is the torus and the drywell. And it may have been that,
5 if they restored power, if they did get a pump running,
6 they may have recirculated that through the core too.

7 Because that's what it's designed to do.

8 So we're modeling, or looking at how we could model
9 the torus also, source term. But it's not one of the
10 things we typically do.

11 MALE PARTICIPANT: Okay. But why do you
12 think not so different from the other two containments?

13 Or you think it's got the other two containments of
14 --

15 DON COOL: They were breached. And so
16 instead of going, instead of material being sent into
17 the suppression chamber, they were obviously leaking
18 out somewhere above that. Or maybe one of the down comers,
19 that come from the primary containment down to the torus.

20 That's all we can do is speculate.

21 MALE PARTICIPANT: Okay. All right. Okay.

22 So what you're saying is, it actually bypassed the torus,
23 the part that (inaudible) relief valve is the thing that
24 broke.

25 DON COOL: Right.

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1 MALE PARTICIPANT: And (inaudible) the
2 drywell.

3 DON COOL: Right. We've been looking at
4 the suppression chamber dose rates on all the units for
5 I don't know how long, but a number of days. Because
6 we were really concerned about the drywell monitor.
7 Because that is an indicator of how much fuel has failed.

8 And the Unit 2 and Unit 3 suppression chambers,
9 I think -- And I'm talking a week or so ago, were around
10 250 to 300. And I guess that would be R per hour, in
11 our terms. But now they're down around 100 and some.

12 So they've obviously either decayed away, or released
13 more material out to containment.

14 MALE PARTICIPANT: Yes.

15 DON COOL: But Unit 1 is still intact,
16 containment's still intact. It's pressurized. And the
17 radioactive material is apparently going where it's
18 supposed to go, which is being contained.

19 MALE PARTICIPANT: Okay. Okay.

20 MALE PARTICIPANT: Wash field on Unit 1.
21 Can I also ask a question in terms of the temperature
22 measurements within the reactor pressure vessel? They
23 were suggesting the information we have, the latest
24 information we have is on IAEA incident emergency
25 publication, 30th of March, 0500 hours UTC.

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1 It suggests that the temperature around the
2 feed water nozzle is around about 281. And RPV bottom
3 is around about 134. Do you have any views if there
4 is any specific to this operation about the feed water
5 temperature is a higher temperature than the RPV lower
6 heads?

7 DON COOL: I really hate to speculate about
8 that. I haven't seen -- I saw some other numbers.

9 MALE PARTICIPANT: (Inaudible).

10 DONCOOL: Yes, okay. I don't know the exact
11 configuration. But 240 degrees at the feed water nozzles
12 is pretty much above the core. So I don't know if that's
13 some air gap, or whatever, that is heated up from the
14 fission product. The temperature's going up, but there's
15 no water down there.

16 MALE PARTICIPANT: Yes, yes.

17 DON COOL: Heat rises.

18 MALE PARTICIPANT: I understand that.

19 DONCOOL: But other than that, I can't really
20 speculate on that.

21 MALE PARTICIPANT: Okay. On the same
22 communique, on Unit 3. Where you believe the temperatures
23 on the buoyancy affect are in the right order. Where
24 the bottom of RPV is about 116 degrees c. And the feed
25 water nozzle is at around about 75 degrees c, which appears

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1 to be the right way around.

2 The communique suggests the validity of the
3 RPV temperature measurements at the feed water nozzle
4 is still under investigation, which leads to suggest,
5 that the other two temperature readings, they have more
6 confidence with Unit 1 and 2, that what it appears to
7 be right, to around on Unit 3. I can't quite understand
8 the logic for that.

9 DON COOL: Well, you know, they teach us
10 to believe your instrumentation. But, you know, I would
11 think that Unit 3 might be a little suspect.

12 MALE PARTICIPANT: If I can just add --

13 DON COOL: Because this -- Or vice versa.
14 I don't know the other units.

15 MALE PARTICIPANT: If I could just point
16 out, if you look at that water levels in the core for
17 Unit 3, you're well below the top of the fuel in Unit
18 3. So I would think that the temperature at the feed
19 water nozzle would be higher.

20 DON COOL: It would depend on whether they're
21 trying, they actually have coolant water going in that's
22 of a lower temperature. And if it's going in through
23 the feed water nozzle.

24 MALE PARTICIPANT: And a suggestion for Unit
25 1, they are -- For Reactor 1 they are feeding through

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1 the feed water lines at a flow rate of around about eight
2 meter Q power.
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(CONFERENCE CALL INITIATED)

DON COOL: Yes. We're confused by the numbers. We were wondering if they just missed a decimal point on one of these feed water lines. You know, because if they're really pumping in cold water, then cooler water, then maybe they missed a decimal point somewhere, you know.

So it's -- Because if you look at Unit 2, they actually have a decimal point on the feed water nozzle, but they don't on Unit 1. And on Unit 3 they have a decimal point, but they don't on Unit 1.

So it could be that they are pumping in cold water, or fresh water. It could be 27.4. It's all speculation on our part. It just seems hard to believe that the feed water nozzle would be higher than the natural lower core. I mean, it's, we're thinking they missed a decimal point. We hope.

MALE PARTICIPANT: Well it's been up there for the temperature for quite a while. And they have changed. And they've not put the decimal point back in. But I just wonder whether it's the thermocouple that could be out.

DON COOL: It could be, yes, it could be that too. Like I said, you're taught to believe your

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1 instrumentation, but --

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: Something's seen as far
4 as --

5 MALE PARTICIPANT: It's still not likely
6 to me to be a decimal point error. Because we've been
7 checking these numbers for days and --

8 MALE PARTICIPANT: I agree, yes. But the
9 nozzles are quite high up in the vessel. So if they've
10 been, you know, wouldn't be up in the generation of hydrogen
11 at very high temperatures.

12 You can imagine particulate would have been
13 going everywhere. It's quite conceivable that some of
14 it could have gone into the feed nozzle, which is located
15 higher up there.

16 MALE PARTICIPANT: With your operational
17 experience, would you be able to share with us where
18 the thermocouples are in the feed water line?

19 DON COOL: Not really. We would suspect
20 they were --

21 MALE PARTICIPANT: On the side.

22 DON COOL: Yes, outside the reactor itself.

23 MALE PARTICIPANT: Okay.

24 DON COOL: On the actual nozzle as they come
25 into the vessel.

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1 MALE PARTICIPANT: Where's the T guide?
2 Do they have a T guide here?

3 MALE PARTICIPANT: I don't know.

4 MALE PARTICIPANT: All right. Would they
5 be exposed to containment (inaudible)?

6 DON COOL: We'll ask our Reactor Safety Team
7 if they have any knowledge of where they are.

8 MALE PARTICIPANT: Okay. (Inaudible)
9 containment.

10 MALE PARTICIPANT: This Reactor Safety Team
11 is not with you at the moment? We are quite happy to
12 have a separate discussion off line, just to see whether
13 we can better understand what these measurements are
14 telling us.

15 DON COOL: Yes. I think the conversation
16 needs to be with our Reactor Safety Team, on the actual
17 parameters you're talking about.

18 MALE PARTICIPANT: Okay. We will work on
19 that.

20 DON COOL: Okay?

21 MALE PARTICIPANT: Thank you. I'll take
22 it that your Reactor Safety Team has also (inaudible)
23 the saturation pressures and the corresponding
24 temperatures that these instrumentations are showing
25 us? Perhaps again, that is a conversation for later

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1 on?

2 DONCOOL: Yes. I think you'd have to discuss
3 what data they have available with them. We're
4 principally looking at the protective measures area,
5 dose assessments, here.

6 MALE PARTICIPANT: Okay. Thank you.
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Okay, (inaudible).

MALE PARTICIPANT: Okay, should we go to
the SAM-Gs then?

MALE PARTICIPANT: Yes. I wonder if you
be able to with us, or take us through the SAM-Gs. And
where you believe they may be within that operational
environment. And I do recognize SAM-Gs don't very often
go into the days and weeks. And they are probably many
hours.

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MALE PARTICIPANT: Don't you believe discussions with SAM-Gs is also best to have, it's best that we have that discussion with reactor physics personnel?

BRUCE WATSON: Hi, this is the NRC Headquarters. Who are you addressing?

MALE PARTICIPANT: I was addressing USNRC.

BRUCE WATSON: Oh, okay.

MALE PARTICIPANT: We were sent a copy of your SAM-Gs for (inaudible) yesterday.

BRUCE WATSON: Don Cool had the lead, but this is Bruce Watson. We're still here. We think your operational issues in specific temperatures and pressures, and all that, temperatures, ought to be talked with the RST, the Reactor Safety Team.

MALE PARTICIPANT: Okay.

BRUCE WATSON: Sorry.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Well in that case, perhaps we should move on to health physics issues?

MALE PARTICIPANT: Yes, yes. Great.

MALE PARTICIPANT: On that point of view, if I just may ask a quick question. Has anybody had

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1 access to the IAEA source term, and compared it to the
2 source term they populated at the outset of this accident?

3 MALE PARTICIPANT: Well we haven't.

4 MALE PARTICIPANT: We haven't.

5 MALE PARTICIPANT: We're talking the IAEA
6 source term now.

7 MALE PARTICIPANT: Because, okay, I'll give
8 you a brief description of what they've done. They've
9 basically tuned a release rate to match detectors in
10 the area.

11 MALE PARTICIPANT: Oh, I see. They're
12 looking at the actual release rates now, to try and get
13 --

14 MALE PARTICIPANT: Well, what they provided
15 us with, and I saw this just before I came down.

16 MALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: Was tuned release rates
18 before March 18. And basically what they've done, like
19 I said previously, is they've looked at the local CTBT
20 detectors, and tuned the release rate to match what those
21 detectors are measuring.

22 They say nothing of what plants dates are
23 assuming, how much of the inventory has been released,
24 or anything like that. But I was wondering if you've
25 seen these numbers. If you had a chance to compare them

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1 to yours. Because I know, for example, with the U.K.,
2 Canada's numbers are in line. But our numbers seem to
3 be well above the numbers proposed by the IAEA.
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MALE PARTICIPANT: In the U.K. we saw this figure through -- And I think it was the 2 becquerel figure. Is that what you're referring to?

MALE PARTICIPANT: Six times 10 to the 15 becquerels is the one I'm referring -- This is as of this morning.

MALE PARTICIPANT: So that's still an estimate for the iodine release from, I think it was the 14th through the 26th of March, which had a figure of around two times 10 to the 15.

MALE PARTICIPANT: Okay. So we're in the same order of magnitude.

MALE PARTICIPANT: Yes. We've done some sort of work with the health protection agencies, to sort of calculate a source term. And we get a similar order of magnitude as the IEA.

MALE PARTICIPANT: Now, is that for the -- Yesterday it was mentioned that the U.K. was modifying their original release to account for aging. Is that the aged release?

MALE PARTICIPANT: No, no. We're not -- I perhaps should clarify that. We had considered it. But we decided against it. Because we decided it wasn't

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1 going to have such a big impact. So we didn't really
2 see the worth of it. Because really the iodine will
3 change, and clearly that fitting above all the rest of
4 the stuff that's going to largely remain unchanged.
5 So we didn't really see the worth of doing it. We're
6 just accepting that the facts and services (inaudible)
7 in the area.

8 MALE PARTICIPANT: I guess if it doesn't
9 change any countermeasures, there's no point.

10 MALE PARTICIPANT: Exactly. I mean, our
11 line has always been, once we've checked with everything,
12 what the Japanese societies found, which we do, and think
13 their countermeasures are adequate, we're still are
14 advising our citizens, basically to follow the Japanese
15 authority's advice.

16 So it's really got, our calculation's more
17 of just a quick check to see if people are sensible.
18 And they seem to be. So we don't, I don't think we're
19 revisiting it. Certainly not in the near future, with
20 no funds.

21 MALE PARTICIPANT: Okay. Thanks for that.

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MALE PARTICIPANT: Okay. Is that the last of the topics that people would wish to discuss this afternoon?

MALE PARTICIPANT: Nothing else to add from Canada. I guess we're meeting tomorrow morning, same time?

MALE PARTICIPANT: Did we say we're going to try to talk with some of the safety people from the USNRC? Is that what --

MALE PARTICIPANT: Yes. I believe -- Can you tell us how we could contact the reactor physics person that's --

MALE PARTICIPANT: Can we exchange a number of information with them?

FEMALE PARTICIPANT: Yes. I don't have their contact information on me. Is there -- This is my first time on this call. I'm the International Liaison at the NRC Headquarters. Is there a email address for this group? Or some way I can get back to you with a time and a phone number?

MALE PARTICIPANT: I've been emailing RST01@hoc.nrc.gov. That's been pretty effective.

MALE PARTICIPANT: Okay.

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1 FEMALE PARTICIPANT: Okay. RST01 --

2 MALE PARTICIPANT: But I suggest that we
3 all email that address --

4 FEMALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: -- and try to get a time.

6 FEMALE PARTICIPANT: Okay. So, yes.
7 Please email that address. And we will respond to you
8 with a time. All right? And a phone number to call in
9 to. Okay?

10 MALE PARTICIPANT: Thank you.

11 MALE PARTICIPANT: Okay, thanks.

12 MALE PARTICIPANT: That's everything. I
13 just have one question, last question. Do you have any
14 information about the (inaudible) or NPP, like Fukushima
15 dying, for example. Because we have some information
16 that a fire has been observed on Unit 1 of this reactor.

17 MALE PARTICIPANT: He said a fire?

18 FEMALE PARTICIPANT: I really don't hear
19 him.

20 MALE PARTICIPANT: Hi. Here's some
21 information this evening that there was some smoke
22 detected in the turbine core, first floor of the turbine
23 in Unit 1. And they stopped the electrical equipment.

24 I think it was a pump. I'm not sure of the
25 exact details. And the smoke went away. Fire brigade

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1 were called. But there was no, they didn't put a fire
2 out. But there was smoke. It went away fairly quickly,
3 following the action of the technical employee. That's
4 all the information that seems to be in the public domain.

5 MALE PARTICIPANT: Okay. Thank you.

6 MALE PARTICIPANT: Okay.

7 BRUCE WATSON: No other questions for the
8 NRC?

9 MALE PARTICIPANT: None from Canada.

10 MALE PARTICIPANT: None from U.K.

11 MALE PARTICIPANT: Just for the U.K., I'll
12 cc NFD emergency on the request for the follow up meeting
13 for the SAM-Gs, the USNRC.

14 MALE PARTICIPANT: Yes, please. That would
15 be very helpful.

16 MALE PARTICIPANT: Okay, good. Thank you.

17 MALE PARTICIPANT: Okay. Do we believe it
18 is value of continuing this discussion tomorrow morning?

19 MALE PARTICIPANT: In U.S. time, Canada
20 time?

21 MALE PARTICIPANT: I would suggest until
22 at least maybe the end of the week.

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: We will do that. And

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1 hopefully, we will talk again later on this afternoon.

2 Hopefully.

3 MALE PARTICIPANT: All right. Thank you.

4 BRUCE WATSON: Thank you all.

5 MALE PARTICIPANT: Thank you.

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For security verification, please enter your pass code, followed by the pound or hash key. Please hold while I confirm your pass code. Thank you, your pass code is confirmed. When you hear the tone, you will be the fourth person to join the meeting.

MALE PARTICIPANT: Hi, who's joined?

MIKE TAKACS: Good morning. This is Mike Takacs from the NRC.

RALPH ANDERSON: Hi, Mike, how are you doing.

Ralph Anderson at NEI. We also have INPO and EPRI on the line.

MIKE TAKACS: Okay. Good morning, Ralph.

RALPH ANDERSON: We'll give others a chance to ring on before we go forward.

MIKE TAKACS: Okay.

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RALPH ANDERSON: Hi, who joined us?

DAVE CANDERRA: (phonetic): This is Dave Canderra from GE.

RALPH ANDERSON: Hi, Dave, how are you doing?

DAVE CANDERRA: Doing great.

RALPH ANDERSON: Hi, who else joined us?

MALE PARTICIPANT: GE.

RALPH ANDERSON: Okay.

DAVE CANDERRA: We have an environmental health sciences group also looking at everything here. So they just came on line yesterday.

RALPH ANDERSON: We'll hold another minute or two, and see if EPA will be joining us. They were a couple of minutes late yesterday. So we'll give them a chance to come on. Hi, who joined us.

RAY CLARK: Ray Clark at EPA.

RALPH ANDERSON: Hi, Ray, how are you doing?
We were --

RAY CLARK: Okay.

RALPH ANDERSON: -- just saying that you guys would probably be on any moment.

RAY CLARK: That will teach you.

MIKE TAKACS: I'm sorry, who, this is the

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1 NRC. Who just joined the call?

2 RALPH ANDERSON: That's Ray Clark at the
3 Environmental Protection Agency.

4 MIKE TAKACS: Okay, thank you.

5 RALPH ANDERSON: We'll go ahead and get
6 started. We might be joined today by OSTP. They were
7 on yesterday. They had mentioned to me in an email that
8 they would try to participate as they could. They're
9 a little less deep than we are in people. So they just
10 acknowledged that some days that they could not join
11 in on the call.

12 So currently we have Nuclear Energy Institute,
13 Nuclear Power Operations, Electric Power Research
14 Institute, Nuclear Regulatory Commission, General
15 Electric and Environmental Protection Agency

16 Just a review for any of you that are new
17 to the call. Our agenda is fairly succinct, which is
18 share information on the U.S. radiological data, as it
19 relates to the events at Fukushima, briefly discuss the
20 implications of that data, brainstorm any ideas of things
21 we ought to be thinking about.

22 And then switch to exchange of radiological
23 data in regard to Fukushima and the surrounding area.

24 Again, reflect on that, and identify any issues or
25 questions that we have regarding that.

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1 And then if there are any other topics that
2 someone would like to discuss, just given the prospects,
3 and the people we have on the line, we can take that
4 up as well.

5 Just to state again, that implicitly we
6 acknowledge constraints that different organizations
7 might have, in terms of what they talked about, what
8 they might share, or what they might say.

9 But the idea is to form a reasonably common
10 knowledge base on what we know about radiation in the
11 United States, from Fukushima, and what we know about
12 radiation at Fukushima and the surrounding environment.

13 So that as we move forward in our respective
14 organizations with actions, or with externa
15 communications, hopefully we're dealing with a similar
16 knowledge base. And at least a similar understanding
17 of the information. So that's the simple purpose of
18 this call. Just to facilitate consistency in our
19 understanding of the available information.

20 So with that, I'll turn to the U.S. situation.

21 And, Ray, if you don't mind, to start with you all at
22 EPA. And our focus has been on any significant
23 developments in the last 24 hours, or changes, or
24 activities going forward.

25 RAY CLARK: No, I don't think there's

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1 anything I could point to as significant change. I had
2 a couple of answers for the questions that were asked
3 yesterday.

4 RALPH ANDERSON: Excellent.

5 RAY CLARK: At least as I understood the
6 questions. I think one was, is the EPA interacting
7 directly with states? We, well, the answer is yes. But
8 not from Headquarters.

9 We try to do it through our regional offices.

10 And try to encourage the states to go through our regional
11 offices, the other direction as well. And of course
12 in posting everything on our website, that Japan 2011
13 website. All of the publicly available data we have
14 is there.

15 There was a question about EPA messaging
16 on MCLs and drinking rainwater. I was correct that there
17 is such a thing being done. Only it's not ready yet.

18 Only it's still under development. That's our public
19 information people. So I was not able to sent it to
20 NRC or NEI.

21 RALPH ANDERSON: Okay.

22 RAY CLARK: I think -- Oh, is EPA
23 coordinating with other agencies? I think that was ore
24 generic than just us. But with other agencies for advice
25 to Japan. And the answer to that is yes.

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1 RALPH ANDERSON: Good.

2 RAY CLARK: There's a group that's well above
3 me, apparently, that's doing that.

4 RALPH ANDERSON: Okay.

5 RAY CLARK: Those were the only ones I had
6 noted. If there's something I missed --

7 RALPH ANDERSON: No, that's -- I think those
8 were the key elements.

9 RAY CLARK: Okay.

10 RALPH ANDERSON: And then as far as the data
11 is concerned, we're looking at what we've got, and guessing
12 at what you've got. Your view is that the data is
13 essentially unchanged?

14 RAY CLARK: Yes, yes. There's nothing.
15 We're being told just to -- And I, we haven't even seen
16 it yet. That there may be a positive reading in a milk
17 sample from somewhere. But we haven't gotten that from
18 our lab yet. So that's really all I know.

19 RALPH ANDERSON: All right.

20 RAY CLARK: Our one milk sample was no detect.
21 And that was in -- Of course I don't have it in front
22 of me, now that I start down that road. But we only
23 have one milk sample in. And there was nothing in it
24 that we found.

25 RALPH ANDERSON: Okay. Any questions or

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1 comments for Ray, EPA? Okay, hearing none, I'm going
2 to kick it over to Ellen Anderson at NEI. We've been
3 tasked with collecting and distributing to the Federal
4 Government, primarily NRC and EPA, nuclear power plant
5 environmental radiation monitoring data. So Ellen can
6 speak to that.

7 ELLEN ANDERSON: Okay. Thanks, Ralph. Our
8 website for collecting environmental samples from the
9 power plants, went live approximately 24 hours ago.
10 As of this morning, ten plants have inputted their data,
11 thus far.

12 A question came up yesterday from EPA about
13 whether I would continue to distribute the Excel
14 spreadsheet that I had, where I actually extract the
15 data from emails, and place it in the table.

16 We will do that for the next couple of days,
17 until we have more site data placed into the website.

18 I have about, I think, three emails that we'll be able
19 to pull the information out and update that table. So,
20 Ray, I'll have that for you sometime today.

21 RAY CLARK: Thank you.

22 ELLEN ANDERSON: And we'll keep on it. To
23 be honest with you, the only plants that send me something
24 on a routine basis is San Onofre and sometimes Diablo
25 Canyon, and Palo Verde. So I'll just send what I have.

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1 In the meantime, they're updating their
2 websites. And for your information, Diablo Canyon has
3 lot of information, lots of really good information in
4 there. So take a look at that one in particular. But
5 --

6 RAY CLARK: Okay.

7 ELLEN ANDERSON: But there's quite a bit
8 in there, thus far.

9 RAY CLARK: Okay, great.

10 ELLEN ANDERSON: So we'll continue to do
11 that. (Inaudible) the next couple of days, until we get
12 a few more plants up. I'm getting their (inaudible)
13 up to date. I've reminded everyone that it takes a while
14 to get the information in.

15 And again, this is a very busy outage season.

16 So folks are extremely busy at the sites, doing the
17 important things, like protecting the health and safety
18 of their workers, as well as the public. So this is
19 an added voluntary action. And this is not a mandatory
20 action on their part. It's purely voluntary. So we'll
21 do that.

22 And the second piece of it is, as of right
23 now, you can just pull up the data by site. We have
24 our IT folks now working on putting together some simple
25 reports, so that you'll be able to pull information up

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1 by sample location, by isotope, or whatever. They're
2 working on that as we speak.

3 I don't expect that to happen probably this
4 week, probably in the next week or so. Because to be
5 very honest with you, the IT department here at NEI
6 basically got this idea handed to them on Friday.

7 And by Monday we had a website up and running.

8 So I'm not pushing my luck here. We'll get the reports
9 when we can. So that's really all I have, subject to
10 any questions.

11 RALPH ANDERSON: Any questions or comments
12 for Ellen?

13 RAY CLARK: This is Ray. I certainly
14 appreciate how busy you are. And we just sent the question
15 in, in hopes. But we can certainly do what you're asking.
16 So I appreciate you considering it.

17 ELLEN ANDERSON: We'll get it to you.
18 Initially it was like, oh, do I have it? But I'm looking
19 at -- As long as I have assistance here from utility
20 folks, like we have had, we can make that happen. If
21 we don't --

22 RAY CLARK: Okay.

23 ELLEN ANDERSON: -- then obviously I'm not
24 sure how much more I can do. But I'm hoping at least
25 possibly to get through the week with the added data.

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1 And then we'll evaluate next week to see what the situation
2 is.

3 RAY CLARK: Okay. Again, yes, we're just
4 thankful to get what you can do. So appreciate it all.

5 RALPH ANDERSON: I will share with all of
6 you, anecdotally, at least one plant has indicated that
7 in changing out their routine environmental samples that
8 they believe they've identified radionuclides from
9 Fukushima on leafy vegetables.

10 So the key is that as people move through
11 the periodic sampling that they do in their environmental
12 programs, undoubtedly, one or more facilities will
13 actually find detectable levels.

14 They were commenting that, given what they
15 had seen, it might even trigger the reporting criteria
16 in NRC's requirements for the 30 day reports for the
17 detection of radioactivity in media, in the environmental
18 monitoring program.

19 So we could find ourselves, over the next
20 30 or 40 days, with one or more plants making formal
21 reports to the NRC, triggered by the criteria in their
22 environmental monitoring programs. Those would be, of
23 course, public reports.

24 But I did want to make everybody aware of
25 that. We'll be talking to NRR to think a little bit

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1 about how we might want to do those reports. What sort
2 of comments we might want to provide, to help those,
3 the nature of those reports be well understood by external
4 stakeholders that would have access to them.

5 So you're free to pass that along to anybody.

6 But from talking to the people there, it sounds to me
7 like that will take place. In which case, approximately
8 28 or 29 days from now, at least one or more reports
9 would be going in, of that nature.

10 RAY CLARK: Well, this is Ray.

11 RALPH ANDERSON: Any comments?

12 RAY CLARK: Will that go on your website
13 before they --

14 RALPH ANDERSON: Yes. The data --

15 RAY CLARK: -- report?

16 RALPH ANDERSON: Yes. The data itself will
17 show up. But sooner than that on the website, Ray. It's
18 just the step change here would be it moving from data
19 in a website, to being a formal report to the NRC.

20 RAY CLARK: Okay.

21 RALPH ANDERSON: Which would go in a
22 different door. And for some, anyway, might have a
23 different implication.

24 RAY CLARK: Sure. Understood. Thank you.

25 RALPH ANDERSON: Yes. I would expect over

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1 the next several days, that you'll start to see that
2 kind of information beginning to make its way into the
3 website database.
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(CONFERENCE CALL INITIATED)

RALPH ANDERSON: Any other questions or comments?

MIKE TAKACS: Yes, the --

RAY CLARK: I will point out that -- I'm sorry.

MIKE TAKACS: No, that's okay.

RAY CLARK: I feel like I'm monopolizing here. Sorry about that. I was just going to say, I'll point out that we do not do that pathway in our RadNet system. So that's helpful.

MIKE TAKACS: Okay, this is Mike from the NRC. For Ellen, for the data that's on the, the monitoring data that's up here that's collected, that you put up here. Do the state agencies have access to the system? Are we giving them access?

ELLEN ANDERSON: We have not at this time.

MIKE TAKACS: Okay. Is it planned for like the state environmental folks to get access to this?

RALPH ANDERSON: Well current, this is Ralph. I just wanted to step in here also.

MIKE TAKACS: Okay.

RALPH ANDERSON: What we have said so far to the plants is that they should undertake to maintain

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1 communication directly with their states. As far as
2 creating broad access to the website, the only thing
3 I worry about is, and no disrespect to our colleagues,
4 is the states that, you know, once we hand out 34 additional
5 accounts to the various states, which have very different
6 types of organizations, I just assume after that, that
7 the "New York Times" will be routinely accessing the
8 website.

9 MIKE TAKACS: Okay, yes. Understood.
10 Okay.

11 RALPH ANDERSON: It's not, this isn't state
12 secret information or anything. But based at this point,
13 until we're sure we've got everything working smoothly,
14 we're trying to be very cautious about expanding access
15 to the level at which anybody and everybody is getting
16 on it.

17 MIKE TAKACS: Okay, good. Thank you. That
18 clears it up for me. Thank you.

19 RALPH ANDERSON: Along those lines then,
20 a couple of other things I'll add. And for the NRC folks,
21 we do have one of our staff here who came from the NRC
22 a couple of years ago.

23 And she had worked over on the materials
24 side in the state programs, and the like. That's Janet
25 Schluter. Janet's actually our afternoon supervisor

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1 for our emergency response center here. She has reached
2 out to CRCPD, Conference on Radiation and Control Program
3 Directors.

4 And we're quite prepared, and would like
5 to go ahead and offer them an opportunity to join us
6 in our 11 o'clock call. But I didn't want to make that
7 formal invitation until I put it out on the table, and
8 got any feedback from you all.

9 But that certainly would make a nice conduit
10 for flow of information back and forward through the
11 states. So this would be the Executive Director for
12 CRCPD. It's Ruth McBurney, by the way, is who it would
13 be. But any comments or concerns about that? Good idea,
14 not such a good idea? You're agnostic?

15 MIKE TAKACS: Agnostic.

16 RAY CLARK: Yes, my only -- Well, no, not
17 really. That's fine. I'm not going to talk about data
18 that we haven't been ready to release anyway. So that's
19 fine.

20 RALPH ANDERSON: Yes. And that was the sense
21 I have, Ray, is that we've, I think we've all kind of
22 agreed that we're -- Although we may be giving heads
23 up to people, I don't think generally we intend to share
24 information that really couldn't and shouldn't be shared.

25 RAY CLARK: Right.

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1 DAVE CANDERRA: (Inaudible), we think it's
2 a good idea.

3 RALPH ANDERSON: Okay. Could you all let
4 state programs know that we're doing that? Just so you
5 don't get surprised on the NRC end.

6 MIKE TAKACS: This is Mike at the NRC. We
7 will let state programs know --

8 RALPH ANDERSON: Okay.

9 MIKE TAKACS: -- that CRCPD is going to be
10 readin. But we only have one comment here on your website,
11 which is quite useful. But because of your worry that
12 outside agencies may get access that don't fully
13 understand what they're looking at, you might have, you
14 might reflect very largely, you know, positively that
15 this is draft, unvetted data.

16 RALPH ANDERSON: Good point.

17 MIKE TAKACS: Just so somebody doesn't pull
18 it up and say, I got this from -- When we all know the
19 data -- It may be accurate, but it may not be.

20 RALPH ANDERSON: Right. Okay.

21 MIKE TAKACS: That's my only comment. And
22 I will contact state programs.

23 RALPH ANDERSON: Okay. And that's a good
24 point. Yes, and that's part of the thought process is,
25 right now this website is simply a tool to pass information

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1 over.

2 If it were going to go to the states, being
3 something that anybody and everybody might be accessing,
4 there's probably more we would do to it to create context
5 for people, so they know what they're looking at. And
6 your comment is a good one. And it's very indicative
7 of that.

8 And again, that's where the reluctance is,
9 just to really rapidly expand out all the parties that
10 would have access to it. It's just doing it right, more
11 than whether we should do it or not.

12 MIKE TAKACS: The NRC understands. It was
13 just a comment.

14 RALPH ANDERSON: All right, yes. Thank you.

15 JIM KEETLY (phonetic): Hey, Ralph, this
16 is Jim Keetly at INPO. I have a question. In thinking
17 about my own sites, and other plants, has there been
18 any protocol on how this information will be used?

19 I know what we've been told is that it's
20 voluntary. And there's been no guidance on frequency
21 or sample types, or units presented. But has there been
22 any direct information on ultimately how this will be
23 used in public space?

24 RALPH ANDERSON: Actually not, you know,
25 what is in the works now is to follow up with the implications

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1 of having put this in place. You know, again, the fact
2 that it is a website was not our priority decision.
3 It really just followed as the most efficient way to
4 honor the request from NRC and from EPA. (b)(5)

5 (b)(5)

6 JIM KEETLY: Right. And then that's, at
7 least the plants that I have spoken with, that's how
8 I've described it. That is has been a request from the
9 NRC through NEI to share voluntary information that they
10 are interested in. And beyond that, I'm not aware of
11 any other entities that would get access to it, or knowledge
12 of it. Not that --

13 RALPH ANDERSON: Actually the similar
14 request, the request actually came from three points.

15 (b)(5)

16 (b)(5)

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23 I think the essence of the questions that
24 you're asking is right on, in that now that we've done
25 this, now we need to step back and make sure that we're

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1 going to be managing it properly. But I will tell you
2 that, as of last Friday, although our IT people were
3 traveling with Ellen at the speed of light to try to
4 get this done.

5 We were starting to get calls every couple
6 of hours from senior management of NRC, asking us if
7 the website was up and operating, or if we were going to
8 transmit information otherwise. That's why Ellen started
9 compiling the Excel spreadsheets and sending them over.

10 JIM KEETLY: I don't think there's much
11 hesitancy in providing information to Government agencies
12 and professional organizations.

13 RALPH ANDERSON: Right.

14 JIM KEETLY: But I think the states overall
15 want to command their own destiny on how the information
16 gets out to the public.

17 RALPH ANDERSON: Yes, absolutely. And that
18 was part of the discussion with the Chief Executive
19 Officers in our noon call that we have with them. And
20 that was heard loud and clear.

21 And that's part of why we deferred the idea
22 that interactions with the states and other local entities
23 really ought to be the prerogative of the utility, rather
24 than having it come, you know, from Washington, D.C.

25 So that's why we've been reluctant to expand

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1 it outward. Our thought is, each utility should have
2 the prerogative in determining when and how they want
3 to share the information with other stakeholders.

4 JIM KEETLY: Agreed.

5 RALPH ANDERSON: Any other questions or
6 comments?

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(CONFERENCE CALL INITIATED)

RALPH ANDERSON: Okay. Apparently not. I can comment from our end that the news interest seems to have been momentary. But I noticed, you know, one of the things we do is, we get people to pay attention to every time the word radiation or nuclear is used anywhere on the planet, in the media.

Our take right now is, this amount of very good, expert commentary that was provided, that helped people put the data in context, and the feedback from some of the major media that we've talked to is that, you know, as far as they're concerned at the moment, the story has come and gone, that we're detecting radiation in the United States, as a nations news story.

And that unless anything changes -- And changes could be, you know, leafy spinach looks like, sounds like stuff that's being quarantined in Japan, now has radioactivity in it, next to a power plant in the United States. Those would be things that might cross a momentary blip in media interest.

But probably the general media in the fact that we're detecting this stuff has abated for now. But I just thought I'd share that with you. And again, that's just part of our mission, where we go look at

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1 those sort of things.

2 DAVE CANDERRA: Hi, this is Dave Canderra
3 from GE. And I'd like to ask a very general question
4 here. We've received a lot of questions from the public.
5 And we've been trying to field those.

6 And it's come to my attention that we can't
7 really use nuclear units. They're not working out with
8 people. The press seems to be falling in line with X
9 amount times the limit, or X amount times normal, or
10 X amount times background.

11 And I'm wondering if it's possible to
12 establish, and so that we're all -- I know that every
13 one of these organizations has contact with the public.

14 I'd like to, you know, just sort of establish what we're
15 using for those bases. So that we're not giving a lot
16 of contrary information.

17 MICHAEL KENT (phonetic): This is Michael
18 Kent at INPO. Actually, I don't know if you can Google
19 it and find it. I was actually decently impressed with
20 ABC News the other night. They kind of started from
21 Fukushima and went their way down.

22 Like it said, this is radiation from a airline
23 flight, this is radiation from an Xray, eating a banana.

24 And they had smaller and smaller circles. And they
25 kind of compared it like. If you can get a hold of that,

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1 you may want to look at that. And just, it would be
2 a, I don't know, it would be a handy presentation of
3 something that talks in values that people know.

4 DAVE CANDERRA: Right. I did see. And
5 they're not the only ones. They have a lot of stuff
6 like that lying around right now. And I also see that
7 they're not really consistent. But really, my question
8 was with respect to the organizations here on the phone.
9 What you really hear --

10 You know, I don't even know if people picked
11 that up. You hear, well, they said it was 10,000 times
12 the limit for that. Or they said it was, you know --
13 And if there's any way to begin talking about this with
14 the public in a consistent basis, amongst this group,
15 that's what I'd like to find out.

16 RAY CLARK: At EPA --

17 RALPH ANDERSON: This is Ralph --

18 RAY CLARK: Oh, go ahead.

19 RALPH ANDERSON: Go ahead. No, Ray, go
20 ahead.

21 RAY CLARK: Oh. At EPA the terminology has
22 been something in the ballpark, and I'm looking at one
23 right now that says, still far below the levels of public
24 health concern. I don't think they've put anything out
25 --

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1 DAVE CANDERRA: I don't know that --

2 RAY CLARK: -- that compares, you know, 2
3 times this or 4 times that, or anything.

4 RALPH ANDERSON: Right. Okay. But to pick
5 up on your point, you know, clearly this issue of
6 multipliers with different benchmarks is one that we're
7 dealing with. I know we're dealing with it a lot too.
8 Especially in regard to the situation at Fukushima itself.

9 Because sometimes it's, as you said,
10 sometimes it's 1,000 times normal. And then when you
11 go find out what normal is, normal is reactor coolant,
12 or routine effluent discharges. Other times it's 1,000
13 times the limit.

14 And you got to find out which of the many
15 limits are being talked about. Or in some cases, as
16 you mentioned, 1,000 times background. I'm not, I think
17 that's a notable comment.

18 You know, maybe we want to give it a little
19 bit of steep time overnight, and revisit it tomorrow,
20 to see if collectively we think there's value in trying
21 to lay something out. It could be a piece of paper,
22 or something else that orients to a common benchmark.

23 But I'd just ask, think it over and talk
24 with a few people about it first. See if that would
25 really be useful, and if it could actually influence

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1 the way that we communicate. But I agree with you, that
2 is a difficulty. And I know we're running into it quite
3 a bit.

4 DAVE CANDERRA: The news is sort of wagging
5 the dog here, you know, they're trying to get viewership.
6 And we're trying to deal with public concerns.

7 RALPH ANDERSON: Yes. And clearly, if it's
8 not 1,000 times something, then it's not worth talking
9 about on the news. And we've seen that. And actually
10 had some candid discussion with a few reporters about
11 that. But you're right. That's the business they're
12 in.

13 But how about if we carry that over then
14 as a topic for tomorrow. And pick it up, and see whether
15 there's anything meaningful that we could do in that regard?

16 DAVE CANDERRA: Thank you.

17 RALPH ANDERSON: Okay. Switching to
18 Fukushima. I'll start with, well I can either start
19 with NRC or INPO. So I'm going to toss a coin. And if
20 INPO doesn't mind, I'll start with them. But if you
21 can give us any insight to anything that you think that
22 has happened, worth noting, over the last 24 hours.

23 And again, we're all recognizing constraints
24 on information, and not wanting to use unvalidated
25 information. But especially in your interpretation of

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1 publicly available information, we'd appreciate any
2 insights you could offer.

3 MICHAEL KENT: Okay, Ralph and team, I'm
4 going to take a cold crack at this product that Michael
5 (inaudible) developed from the publicly available
6 information.

7 And it's certainly not something we're going
8 to go into detail on or in depth. Because it shows trends.

9 But generally there are monitoring points, such as main
10 office buildings, main gates, and areas around the plants.

11 Those trends are, by and large, stable.
12 We're seeing ranging from one to a maximum of 130 millirems
13 per hour. And that's high values, highest values at
14 the main office building. And again, those trends are
15 mostly stable.

16 In the drywell torus we're seeing values,
17 as most of us have seen, ranging anywhere from in the
18 low 100s r per hour, rem per hour, up to 4,000 rem per
19 hour. And those are mostly stable, and decreasing
20 slightly. Looking off site, 30 kilometers northwest,
21 we're seeing readings of about 1.7 to 4 millirem per
22 hour. And those trends are improving.

23 Some new airborne data that came out today,
24 25 kilometers north of the site, we're seeing iodine
25 131 at about 2 E-9 microcuries per cc, and some cesium

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1 137 at the same general order of magnitude. But these
2 are new data points. So there's no trend available on
3 that so far.

4 The latest soil, this is 30 kilometers
5 northwest, showing iodine at about 6 microcuries per
6 kilogram of iodine 131. And cesium 137 about .25
7 microcuries per kilogram. Vegetation, same, about 40
8 kilometers northwest, showing about 10 microcuries per
9 kilogram. Those trends are improving. That's iodine
10 131. And about the same order of magnitude for cesium
11 137.

12 And then we have a new sample data point
13 today. That's 40 kilometers northwest. It's pondwater.

14 Iodine 131 about 2 E-2 microcuries per kilogram. So
15 as a general overview, we can provide that type of
16 information, we believe, because it's publicly available,
17 and compile it on a daily basis, and probably shoot it
18 out in writing.

19 But we have to get that approved, anything
20 that goes out in writing. But I don't see why it would,
21 we would hesitate to do that. But we just have to get
22 the formal approval. Is this a tool that most of us
23 feel we could use, or release that kind of data sharing?

24 RALPH ANDERSON: Yes. Weighing in for NEI,
25 yes, we would find that helpful, and think it would be

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1 supportive of the conversation. Others?

2 MICHAEL KENT: Okay. So we'll, I think we
3 can take that on as an action on our daily call, to give
4 some high level view, particularly what folks see on
5 changes as we go forward.

6 MIKE RADDATZ: Hi, this is Mike Raddatz with
7 the NRC. One thing is, please be very clear on your,
8 anything you write down on attributions. So we have
9 someplace to point to. The data attributions. Public
10 sources isn't good enough. If you could, you know, state
11 exactly where you're getting it from.

12 MICHAEL KENT: Okay.

13 MIKE RADDATZ: So we have some way of --

14 MICHAEL KENT: Well the three websites we're
15 getting it from are listed at that top.

16 MIKE RADDATZ: Okay, great.

17 MICHAEL KENT: So if we get approval to send
18 this out in writing, the links are right at the top of
19 the page.

20 MIKE RADDATZ: Excellent. That's all.
21 Thank you.

22 RALPH ANDERSON: I'd suggest one that you
23 might want to add is, the World Health Organization puts
24 out a situation report daily. They're up to Sitrep number
25 20 now. They also include -- Their focus is more on

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1 the water and food.

2 So if you could take a look at that, I'll
3 send you the website. Because it's not the primary World
4 Health Organization Headquarters, it's their Pacific
5 Regional Office.

6 MICHAEL KENT: Can you send it specifically
7 to me? This is Michael Kent.

8 RALPH ANDERSON: Yes.

9 MICHAEL KENT: Thank you.

10 RALPH ANDERSON: Yes, I'll send it to you.
11 But take a look at it. They include things like seawater
12 samples, vegetation, and other types of information.

13 MICHAEL KENT: And I just tried to get this
14 out this morning. And I want all the comments like that.
15 So we'll look at seawater. One of the things is, I
16 wanted to included Tokyo drinking water. That's
17 available at (inaudible). And then the other, one of
18 the other highest prefectures. So we can trim that.

19 RALPH ANDERSON: Got it.

20 MICHAEL KENT: I will be getting it in.
21 And hopefully, the next 24 hours, I'll have a better
22 revision, with your comments.

23 RALPH ANDERSON: This is out -- I just want
24 to say, this is outstanding. This is great. Because
25 there is -- The comment I keep making on the media,

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1 over and over again is, you know, despite the situation
2 with TEPCO, which I won't try to account for.

3 Once the Government and the international
4 organizations had a chance to get moving. And we all
5 need to remember that they had an earthquake and a tsunami,
6 and a huge catastrophe, and a large number of people
7 to deal with before they turned their focus to data
8 production for a nuclear power plant.

9 In my view we've got access to just about
10 any and all of the data that we might want. So this
11 is excellent. I really appreciate this effort going
12 forward, so that we can trend things. NRC? Well first
13 of all, I need to make sure. So from INPO, anything
14 else that you want to put in the hopper today?

15 MICHAEL KENT: No. We don't have anything
16 else today.

17 RALPH ANDERSON: Qualitatively, is there
18 anything we should be worrying about in the next 24 hours,
19 in your view, unofficially?

20 MICHAEL KENT: I don't see anything in the
21 data that's going to make me stay awake tonight.

22 JIM KEETLY: I'm thinking, you brought up
23 something earlier, Ralph. Inquiries about people over
24 in Japan. We're getting some of those inquiries too.
25 I think it's, they've come out of the CEO calls, who

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1 are interested in radiation injuries or for both workers
2 and the public. And we don't have any validated data.

3 So if anything comes across that we can have, we'd
4 appreciate that.

5 RALPH ANDERSON: Okay. For others on the
6 phone, this came out of a earlier call we had. It's
7 just a simple fact of looking at the information that
8 is available.

9 Looking at the pictures in the media, we
10 just still strongly question the possibility of intakes
11 of radioactivity by the workers, given the apparent
12 respiratory protection they're using, and the presumed
13 types of airborne radioactive concentrations that they
14 might be working in.

15 So I understand there's a lot of assumption
16 in that. But just on the face of it, it doesn't match
17 up. And so we simply wonder about the possibility that
18 intakes are occurring that aren't being monitored.

19 DAVE CANDERRA: Has there been any effort
20 by the Governmental organizations on the phone to provide
21 any better breathing apparatus, or apparati for the
22 workers? I don't know why TEPCO's not coming up with
23 it. But it's wholly inadequate from what we've been
24 seeing.

25 RALPH ANDERSON: Well I know we've been

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1 trying to push it through the pipeline. But I'll defer
2 to both NRC and INPO, and just ask. Again, I know through
3 INPO we've been trying to push that through. NRC, you
4 have any insight on whether repeated --

5 MIKE TAKACS: No.

6 RALPH ANDERSON: -- messages have been
7 making it through?

8 MIKE TAKACS: No. And the NRC does not have
9 any comment on that at this point.

10 RALPH ANDERSON: Yes. I keep looking for
11 a change in the pictures. But again, it's presumptive
12 that there are high airborne concentrations. I just
13 cannot imagine that there aren't. But at any rate, we'll
14 just continue to see where we can get with that.

15 I've sent emails to a number of my Japanese
16 colleagues. And I haven't gotten any bounce back from
17 that yet. So I don't know whether anything's getting
18 through in that regard, or not. Okay. NRC, then,
19 anything else that you want to add in on the Fukushima
20 situation?

21 MIKE TAKACS: No, no. The NRC does not have
22 any comments for this current subject matter right now.

23 RALPH ANDERSON: Okay. Anybody else? Then
24 the last thing I'll mention then is, the media interest
25 today was focused on the apparent increase in

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1 radioactivity at the 330 meter sampling point on the
2 ocean.

3 You know, the levels are pretty high by any
4 measure, and against any benchmark. But again, the
5 capturing thing, to go back to comments previously, was
6 that it was precisely 3,350 times normal. And I haven't
7 been able to find out what anyone means by normal yet.

8 So whatever normal is, it's 3,350 times that.

9 An amazing precision. But that's kind of the story
10 du jour, is lots of radioactivity going in the seawater.

11 What I would point out, is that, you know, the water
12 management issue at Fukushima is significant.

13 We all know that from our various sources
14 of information. It's not a mystery. It's in just about
15 every international news service. And that, probably
16 what bears watching, both in terms of potential
17 environmental consequences, as well as on site
18 consequences, is how the management of that highly
19 radioactive water progresses.

20 So I would just offer that up as an item
21 of interest to perhaps carry over to tomorrow. And then
22 talk a little bit more about. Much of the world has
23 a different view about protection of non human species
24 in the environment than we do formally in the United
25 States.

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1 And I've begun to get some questions like
2 that through the media, in regards to the radioactivity
3 getting into the ocean aspect. And this is beyond fish
4 as a food supply. It focused more on fishes having a
5 right to live, and do what they want to do as well.

6 And that, you know, again I just want to
7 comment that that might be an emerging issue, is a stronger
8 concern about the radio ecology, and protection of non
9 human species. Any other comments or questions? Thank
10 you very much then. We'll proceed same time, same number
11 tomorrow. Thank you very much.

12 DAVE CANDERRA: I just had one quick question.
13 The names, do we send those by email also to attend
14 the --

15 RALPH ANDERSON: Yes. I apologize. I've
16 been getting spotty input. And I should have made that
17 more formal. If each organization on the phone would
18 please send me an email at rla@nei.org, just listing
19 who was on the call.

20 The intent was to compile that information.
21 And especially to make it available to NRC and EPA,
22 just so they have that for the record. I do know that
23 this is a recorded call at NRC. And the key is, just
24 for documentation purposes, and completeness, I'm quite
25 happy to pull together that list of people.

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1 So far the only emails that I've gotten have
2 been from just a couple of people, and fro the NRC.
3 So following today's call, if everyone could just send
4 me a quick email at again, Romeo, Lima, Alpha at Nancy,
5 Echo, India, dot O-R-G. Then I'll just simply put all
6 those together in one email, and send it back to you
7 all.

8 MICHAEL KENT: All right. Thanks, Ralph.

9 RALPH ANDERSON: Thank you very much.

10 MIKE TAKACS: Thanks for all your efforts,
11 Ralph.

12 DAVE CANDERRA: Thanks, Ralph.

13 RALPH ANDERSON: No problem. Over and out.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is (inaudible)

HEADQUARTERS OPERATIONS OFFICER: Hey, is this Protective Measures Table Phone?

MALE PARTICIPANT: Protective Measures. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, this is the HOO. I'm trying to establish a tie in to you guys from NARAC. And no one's answering your phones. Do you want these folks transferred over to the 5419 number?

MALE PARTICIPANT: Yes,

HEADQUARTERS OPERATIONS OFFICER: Okay. And they've since dropped again, and hopefully will call back. Do you have the NARAC number?

MALE PARTICIPANT: I've got a 925-422-9100 number for Naastrom. I don't know if that's who was trying to call in.

HEADQUARTERS OPERATIONS OFFICER: I don't know either, sir. Hopefully he'll call back. And I'm going to direct him to your table phone, okay?

MALE PARTICIPANT: Yes, sir.

HEADQUARTERS OPERATIONS OFFICER: And if you could please answer your other phones, I'd appreciate

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1 it, sir. Thank you.

2 MALE PARTICIPANT: It rang twice an it was
3 answered. It went away.

4 MALE PARTICIPANT: I've got NARAC here.

5 MALE PARTICIPANT: Oh, you've got NARAC
6 there.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Well the representative condition would include the --

MALE PARTICIPANT: I really didn't want to give them too much of the detail here for their decision process, unless you -- That's what I was trying to just say. The representative conditions over a period of time.

Because we'd have to work our with NARAC the details. This isn't what we'd expect NARAC to actually use in the run.

(b)(5),(b)(6)

You're right about that.

MALE PARTICIPANT: Thank you, John.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Far as the followup on
this returning on April 15th. And the environmental
--

MALE PARTICIPANT: Well we need to do that
before we send this email.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: That means NARAC knows
about the request.

MALE PARTICIPANT: Yes. They saw the
request. And it was in one of our NITops. And it should
be on there from last night, he said, at 9:59. I'll
check on there.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: And I'll call John back.

MALE PARTICIPANT: Yes, do not hit send.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Because it appears that
NARAC knows about this.

MALE PARTICIPANT: Oh, okay.

MALE PARTICIPANT: Yes. They know about
the request.

MALE PARTICIPANT: So save that. Just hit
the save button up in the corner. And then minimize

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1 it down. And go looking for that NITops thing, you said
2 from last night?

3 MALE PARTICIPANT: I think he said last night,
4 9:50 or something. Here we go.

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(CONFERENCE CALL INITIATED)

DON COOL: Okay. So I guess you have to call him back and figure out exactly what he's looking for.

MALE PARTICIPANT: Yes.

DON COOL: And go ahead and talk with him about -- Well let's just call him back. What number you got?

MALE PARTICIPANT: 925.

DON COOL: Is he still on?

KAREN: NARAC, this is Karen.

DON COOL: Can you connect me with John Naastrom, please, 4603?

KAREN: Who's calling?

MALE PARTICIPANT: this is the NRC Protective Measures Team.

KAREN: And your name?

DON COOL: Donald Cool. He was just talking with another one of my folks.

KAREN: Okay. Just one moment.

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(CONFERENCE CALL INITIATED)

(Background conversations)

JOHN NAASTROM: John Naastrom.

DON COOL: Hi, John, this is Donald Cool in the NRC Protective Measures Team. You just were on the phone with us, and I'm trying to get back with you.

JOHN NAASTROM: Yes.

DON COOL: We've got the information on PMT 12 up now. Not quite sure what email you're referring to. We just had a NITops at 9 something last night.

JOHN NAASTROM: Oh.

DON COOL:

(b)(5)

(b)(5)

JOHN NAASTROM: Yes. Well, there was quite a bit of interaction in the last couple of days, on what

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(b)(5)

So --

DON COOL: Well, okay. We need to see that.

My understanding that what was done over the last few days, which had components from Unit 1, a longer term release, Unit 2, and Unit 3 with more of a little bubble burst, that this was something after that. This is sort of what we got to sort out. Because this was a new request that we understood the Ambassador made yesterday.

JOHN NAASTROM: Oh. Okay. Well, maybe the Ambassador hadn't seen it yet. But let me -- Yes, so let's talk about what we have done, just to make sure.

So, we did this what we called modified super core analysis for impact on Tokyo.

It was several different scenarios. Well, actually there's a Unit 2, 25 percent release, I think 25 percent of the inventory released from the Unit 2 reactor, with the wind blowing straight at Tokyo.

And then there was a Unit 3 and 4, you know, combined spent fuel pool release, with kind of realistic meteorology headed south. So that's what we're calling the modified super core Tokyo impact. And it sounds like you're aware of that. At least --

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1 DON COOL: We were aware of that. And that
2 source term is a lot hotter than what would realistically
3 exist now. And what we understood the Ambassador was
4 looking for was a forward looking pessimistic case.
5 But not nearly that big.

6 To be run, making a presumption that it was
7 April 15th. Because he wants to have some confidence
8 that when he brings, or has people come on back to the
9 Embassy, that they're not going to have to turn around
10 and immediately kick them out again.

11 JOHN NAASTROM: Okay.

12 DON COOL: And so what we understood the
13 Ambassador was looking for, was something that would
14 be an event involving the Unit 1 reactor, followed some
15 24 hours later by a zirc fire in the Unit 4 spent fuel
16 pool, because everybody had been evacuated at the site,
17 because of the Unit 1 problems. And so they were no
18 longer putting water on it.

19 JOHN NAASTROM: Oh, okay.

20 DON COOL: But then we needed to have a much
21 more realistic source term that took into account the
22 fact that it had been a month since the event had happened.

23 A lot of the short terms and iodines had already decayed
24 or been released, et cetera.

25 So it would be significantly different from

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1 super core or revised super core. Or plausible realistic
2 version 3 that was done several days ago, or other things.

3 JOHN NAASTROM: Okay. All right. So let
4 me make sure I get this down here. So it's, they would
5 like impact on Tokyo around April 15th, accounting for
6 time since shut down, with decay. And it would be the
7 Unit 1 reactor. Is that right?

8 DON COOL: Correct.

9 JOHN NAASTROM: Including Unit 1 reactor.
10 And spent, as well as spent fuel pools. Is that right?

11 DON COOL: Spent fuel pools started 24 hours
12 later, because people would no longer have been spraying
13 water on it.

14 MALE PARTICIPANT: That would be Unit 4.

15 JOHN NAASTROM: Oh, okay.

16 DON COOL: Yes, Unit 4.

17 (Crosstalk)

18 DON COOL: Just Unit 4. So those two pieces
19 in scenario. We here, in our Protective Measures Team,
20 do not think that this should be a RASCAL source term.
21 We are developing as good a specification we can.

22 And we were going to have our folks, outside
23 the operations center, using MELCOR and other modeling,
24 which could be much more accurate, to try and account
25 for time since the initial set of events, and other things,

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1 to develop a source term to work with you.

2 So I don't have a listing of radionuclides
3 from each of them yet. We're in interactions now with
4 our Office of Research on how to best specify that, so
5 they can go off and try and develop that.

6 As I said, we got this request from our people
7 over in Japan last night, during our night shift here.

8 We have an email that was, in fact, on PMT04 screen,
9 which we haven't sent yet.

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13 (b)(5)
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17 I had the impression that others, maybe
18 through PACOM or something else, might also be bringing
19 forward this request from the Ambassador. But I haven't
20 seen anything. So I don't know --

21 MALE PARTICIPANT: We don't know if it's
22 gone to the NIT or anybody else yet.

23 DON COOL: So we were going to send something
24 --

25 JOHN NAASTROM: No. I know the NIT, the

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1 NIT told me they had been getting some requests from
2 PACOM.

3 DON COOL: Yes.

4 JOHN NAASTROM: So it could be that. But
5 they didn't say it was -- They didn't know exactly.
6 They didn't say, they didn't associate it with the
7 Ambassador.

8 DON COOL: Yes. Well, we were editing on
9 this, noodling on it. And it would go to NIT, and it
10 would go to you all. So that you'd know what we think
11 we had been tasked with. So we could get an agreement,
12 so we could all agree that we had a specific task and
13 a time frame.

14 Our understanding was, the Ambassador wanted
15 to have the final product by next Wednesday. And he
16 wanted a draft on Sunday. That's what our people told
17 us.

18 JOHN NAASTROM: Right, yes. I thought
19 that's the information that was in your sitrep. Yes,
20 that was what caught our attention. We noticed it in
21 the sitrep.

22 DON COOL: That's what we're following up
23 on now, trying to draft up what that would include.
24 And it would be those, that scenario we just talked about.
25 It would be a two day sort of event, using typical historic

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1 meteorology.

2 In other words, it would move around, not
3 driven straight to Tokyo, but moving around. But
4 certainly including some component that was aimed south.

5 I mean, the historical data doesn't say that it blows
6 from the northeast for 36 or 48 straight hours.

7 But that there are components that come over
8 land for six hours, 12 hours, and then goes back out.

9 So trying to be as realistic as we could with relationship
10 to what the source term actually would be on April 15th,
11 16th.

12 What the meteorology might be if the wind
13 happened to align with one of the low pressures being
14 off the coast, that was blowing inland for a few hours,
15 et cetera.

16 JOHN NAASTROM: Okay.

17 DON COOL: Does that make sense?

18 JOHN NAASTROM: Yes. I think, you know,
19 you might, since the NIT and me have been talking to
20 people as well, I don't know, you might want to just
21 call them. And just kind of let them know what you're
22 hearing. Just to coordinate it and share information.

23 Because they may have some, yes, they may
24 have already tried to deal with this request, as you
25 mentioned. Since it's been hearing from PACOM. And maybe

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1 they heard from other circles too, in Japan. So that
2 would be my suggestions.

3 And then, you know, we obviously follow.

4 We'll respond to the priority request that everyone
5 decides on. So that's my suggestion. Because then our,
6 Deery (phonetic) asked me to call you just to make sure
7 that, you know, what may, try to understand the request

8 And just see if anything we had already
9 done (inaudible) that. But I understand you're trying
10 to basically update it with something that would be more
11 relevant for the April 15th time frame.

12 DON COOL: Correct.

13 JOHN NAASTROM: Okay.

14 DON COOL: Who at DoE?

15 JOHN NAASTROM: Dave Bowman is the guy there
16 who's in charge of everything now.

17 DON COOL: Dave Bowman.

18 JOHN NAASTROM: Yes. So I would, yes I would
19 suggest, you know, before you hit the send button, maybe
20 give him a call, and just see if maybe they've already,
21 you know, seen people trying to handle this request.

22 DON COOL: Yes. So we'll call the NIT and
23 I can see if I can get a hold of Dave and talk with them
24 also.

25 JOHN NAASTROM: Okay.

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1 DON COOL: All right. Stay tuned.

2 BRUCE WATSON: John, Bruce Watson. What
3 hours are you guys working now?

4 JOHN NAASTROM: We're working nominally your
5 time, eastern time, 7:00 a.m. to 11:00 p.m.

6 BRUCE WATSON: Okay.

7 JOHN NAASTROM: But we're on call other hours
8 too.

9 BRUCE WATSON: Okay. I just wanted to make
10 sure you had --

11 JOHN NAASTROM: If something urgent came
12 up in the middle of the night, you can always the daily
13 NIT, and they have our on call person.

14 BRUCE WATSON: Okay. I just wanted to make
15 sure you hadn't gone exclusively to a day shift yet.

16 JOHN NAASTROM: No. We're here in the middle
17 of the night when we need to, is what it comes down to,
18 if we're on call in the middle of the night.

19 BRUCE WATSON: Okay.

20 JOHN NAASTROM: Otherwise --

21 BRUCE WATSON: All right. Appreciate it.

22 JOHN NAASTROM: Okay.

23 BRUCE WATSON: Thanks.

24 JOHN NAASTROM: All right. Talk to you guys
25 later.

26

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: Operations Center, Turner speaking. May I help you?

DON COOL: Yes, good morning, or afternoon. This is Donald Cool in the NRC Protective Measures Team. Can you patch me through to the NIT?

MALE PARTICIPANT: Okay. Standby, please. You're connected to the NIT, sir. Go right ahead.

DON COOL: Thank you. Good morning, this is Donald Cool in the NRC Operations Center Protective Measures Team. I was hoping I could get myself connected up with Dave Bowman.

MALE PARTICIPANT: And your last name is Cool?

DON COOL: Cool, C-O-O-L. I'm currently the Protective Measures Team Director, here in our Operations Center.

MALE PARTICIPANT: Okay. Hold on a minute, please, okay?

DON COOL: Yes.

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(CONFERENCE CALL INITIATED)

DAVID BOWMAN: This is David Bowman.

DON COOL: Hi, Dave. This is Donald Cool in NRC's Operations Center. This is a recorded line. I was just on the phone with John Naastrom down at NARAC. I think you had been talking with him just maybe a little while ago.

DAVID BOWMAN: Right.

DON COOL: And wanted to also talk with you about a request that we got through our folks in Japan, during the night. The Ambassador, U.S. Ambassador in Japan, wishing to have a forward looking pessimistic run, that would reflect something happening on roughly April 15th, that would involve the Unit 1 reactor.

And then some bit of time later, a problem with the Unit 4 spent fuel pool, realistic meteorology. Our understanding was that the Ambassador wanted to have something to provide him some additional confidence that as things continue to move forward.

And he wanted to get his dependants and others back to Tokyo. That there wasn't still a situation where the modeling would be resulting in really large numbers in Tokyo if everything went south.

DAVID BOWMAN: Okay.

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1 DONCOOL: We are looking at trying to develop
2 a detailed specification of what that source term would
3 look like.

4 DAVID BOWMAN: Sure.

5 DON COOL: And, in fact, we don't want to
6 use a RASCAL source term, because RASCAL doesn't allow
7 you to look at all the things that have decayed and changed
8 over time.

9 And so we're working with our folks in our
10 Office of Research, outside of our Operation Center,
11 and MELCOR calculations, and other things, to try and
12 develop a more specific source term for that time.

13 DAVID BOWMAN: Okay.

14 DON COOL:

15 (b)(5)
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18 DAVID BOWMAN: Okay.

19 DON COOL: We need to make sure that everyone
20 is aligned, so that the right tasking can happen. To
21 you, and then to NARAC. And then we stand ready to interact
22 with John Naastrom and the folks on the details.

23 DAVID BOWMAN: Right.

24 DONCOOL: So that a run could be established.
25 And I just wondered if this, if you had heard of other

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1 bits and pieces of this? How much was new, different,
2 or otherwise? Because I didn't want to catch anybody
3 by --

4 DAVID BOWMAN: Right.

5 DON COOL: -- too much of a surprise.

6 DAVID BOWMAN: So basically all we saw was
7 your sitrep this morning, that this was in process.

8 DON COOL: Yes.

9 DAVID BOWMAN: So I did give (b)(6) a heads
10 up. He had seen it from your sitrep as well. So, yes,

11 I understand you guys, you develop the source term (b)(5)

12 (b)(5) I mean, we're going to
13 have to, they're going to have to decide.

14 We'll have to have a discussion with them
15 about what kind of weather. Because obviously, we can't
16 today predict the weather on April 15th. So they're
17 probably going to want some historical weather. But,
18 I mean, that's just details that they'll have to weigh
19 in on.

20 DON COOL: Right. In our email we were going
21 to say that we would be ready to work with NARAC on the
22 details. What we were going to suggest was a 48 hour
23 period with historic weather that would include some
24 portion where the wind had shifted south, but not --

25 DAVID BOWMAN: Yes.

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1 DON COOL: -- just blowing it straight down
2 there the whole time. So that we could --

3 DAVID BOWMAN: Right.

4 DON COOL: -- be reasonably realistic, even
5 though we were running a pessimistic --

6 DAVID BOWMAN: Right.

7 DON COOL: -- sort of case. Because we don't
8 -- We, of course, hope that we're not going to have
9 a problem where Unit 1 goes pop, or anything like that.
10 But, so --

11 DAVID BOWMAN: Yes, I mean, I was just
12 thinking about it, you know, for a few minutes. I propose
13 maybe we use the weather we used for these most recent
14 runs, where they had -- There was about a six hour period
15 where the winds were blowing towards Tokyo, and then
16 they shifted.

17 And originally they told us to just loop
18 that, you know, take the six hours and then restart.
19 So that we got 24 hours towards Tokyo. And they decided
20 that was unrealistic.

21 So they told us, for the last run start with
22 the six hours, and then after that, just use the realistic
23 weather. So that would be my proposal. We start with
24 a time where they are going south. But then after six
25 hours, we let the winds go where they go.

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1 DON COOL: Yes, I think we'd agree. That
2 result is what I sort of nicknamed the butterfly.

3 DAVID BOWMAN: Yes.

4 DON COOL: That new look, yes. That's
5 exactly what we were thinking here.

6 DAVID BOWMAN: Like Tinkerbell. But that's
7 okay.

8 DON COOL:

9 (b)(5)
10
11

12 DAVID BOWMAN:

13 (b)(5)

14 DON COOL: So that it, you know, we could
15 be getting agreement that this was the task. And in
16 parallel, we're working on trying to sort out exactly
17 what the source term specification would look like.

18 So once everyone agreed to the task, we could
19 then be trying to nail down the source term, and start
20 the run. And it's probably tomorrow when all that gets
21 nailed down, and our folks have had enough time to really
22 spec out what changes would have happened as a result
23 of the source terms already released, and things like
24 that.

25 DAVID BOWMAN: Okay.

DON COOL: So this wouldn't be a this

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1 afternoon, suddenly go. But our discussions over the
2 next day or so on the specifications. So that it then
3 could be run Thursday, Friday. So we'd easily --

4 DAVID BOWMAN: Okay.

5 DON COOL: -- make the Ambassador's request.

6 DAVID BOWMAN: That sounds great. I mean,
7 I'm glad we're able to pre-coordinate on this. Because
8 we haven't had that opportunity before. So we'll get
9 NARAC ready to go, you know, have them staffed
10 appropriately, so that when you guys get the source term
11 they can turn this on. And we can get it, you know,
12 modeled expeditiously.

13 DON COOL: That sounds good. Let's see,
14 I had NARAC copied on the email. I had NITOps.

15 (b)(5),(b)(6)

16
17 DAVID BOWMAN: You can send it to my personal,
18 which is david.bowman@nnsa.doe.gov.

19 DON COOL: david.bowman@nnsa.doe.gov?

20 DAVID BOWMAN: That's right.

21 DON COOL: Okay. We'll include you also,
22 so that you see it directly. And let's just keep the
23 communication lines open.

24 (b)(5)

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1 DAVID BOWMAN: Okay. Sounds good.

2 DON COOL: All right? Thank you, sir.

3 DAVID BOWMAN: Yes, thank you. Bye.

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(CONFERENCE CALL INITIATED)

DON COOL: NRC Protective Measures Team.

This is a recorded line. Don Cool.

HEADQUARTERS OPERATIONS OFFICER: Hi. I have Mr. Schaperow from research on the line.

DON COOL: Okay. This is Don Cool.

JASON SCHAPEROW: Yes, this is Jason Schaperow. I'd like to speak with Tony Huffert.

DON COOL: Yes. He's walking over.

JASON SCHAPEROW: Thank you.

DON COOL: The HOO put it in on the PMT director desk.

TONY HUFFERT: Good afternoon, Jason, how are you?

JASON SCHAPEROW: Yes. Yes, hi, Tony. Hey, Charlie and I are willing to come down and meet with you. And to go over this request for source terms.

TONY HUFFERT: (Inaudible) too.

JASON SCHAPEROW: Would that work? I was thinking, maybe we could even duck into the conference room, like right next to the Ops Center.

TONY HUFFERT: Yes.

JASON SCHAPEROW: Like right at the door. Maybe we could duck in there, and maybe pull the old

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1 blackboard out, and write some stuff down. And see if
2 we can come up with some ideas on how to handle this.

3 TONY HUFFERT: That would be great. Are
4 you going to catch the 1:50 p.m. bus?

5 JASON SCHAPEROW: I don't know. Sure, you
6 want me to drive down in my car? Or do you want to hop
7 the subway? How do you want to do it? Shuttle? I don't
8 know. We'll do -- Yes. I got a parking pass, yes.
9 Okay, we'll probably just drive down. Yes, yes.

10 TONY HUFFERT: Okay. Because we have a shift
11 turnover at 3 o'clock. So it would be really helpful
12 if --

13 JASON SCHAPEROW: Yes, we'll be there very
14 soon.

15 TONY HUFFERT: Okay, great.

16 JASON SCHAPEROW: Probably about 15 minutes.

17 TONY HUFFERT: Okay, great.

18 JASON SCHAPEROW: All right.

19 TONY HUFFERT: Thank you.

20 JASON SCHAPEROW: Thanks, bye, bye, .

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(CONFERENCE CALL INITIATED)

RECORDING: Welcome to the conference calling center. At any time during this message, please enter your pass code, followed by the pound sign. Your pass code has been confirmed. If you need technical assistance during your call, press star 0. After the tone, please state your name, followed by the pound sign.

MIKE TAKACS: Mike Takacs, NRC.

RECORDING: There are 11 parties in conference, including you.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: Hello, everyone. This is
Scott Hudson, hosting the Advisory Team call. We need
to wait just a minute. Sorry, we're a little bit late.
We got a couple of things going on. But we'll get started
here in just about 30 seconds.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: Okay, how about FDA.

JIM CHERNIAK (phonetic): Jim Cherniak,
WIAC.

KAREN SMALLWOOD (phonetic): Karen
Smallwood, Southeast Region.

ELLENMORRISON (phonetic): EllenMorrison,
Office of Crisis Management in the EOC, FDA.

MARK RUSSO (phonetic): Mark Russo,
Emergency Operations, FDA.

JEFF SINSEK (phonetic): Jeff Sinsek.

GEORGE ALLEN (phonetic): George Allen.

BILL CUNNINGHAM (phonetic): Bill
Cunningham.

RACHELEVANS (phonetic): RachelEvans, just
in case you didn't get me the first time.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: All right. How about CDC

LYNN EVANS (phonetic): Lynn Evans.

BAS SARATEY (phonetic): Bas Saratey.

SAM KEITH (phonetic): Sam Keith.

SCOTT HUDSON: Okay. Anybody from NRC,
Nuclear Regulatory Commission?

MIKE TAKACS: Yes, Mike TAKACS and Don Cool.

SCOTT HUDSON: Thank you. How about Customs
and Border protection? Okay. Anybody I've omitted?
Anybody else that hasn't spoke up (inaudible)?

DENISE MATTHEWS (phonetic): Denise
Matthews in the OSHA National Office, with a bunch of
other OSHA staff.

SCOTT HUDSON: Thank you.

MALE PARTICIPANT: State of Oregon.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: Okay. We sent around an agenda earlier. We've got eight or nine items. And I've got a few other things added as well. One of the things that came up earlier today, that I think we ought to kick off the discussion is, is the Advisory Team's role in this Fukushima incident response.

I saw some, probably some emails and questions about, you know, are we using the Advisory Team appropriately. So I'd like to spend at least a few minutes opening comments for that.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: No comments, no questions?

LYNN EVANS: Scott, this is Lynn Evans, CDC.

Are you referring to the emails that some of us exchanged this morning?

SCOTT HUDSON: Yes. Certainly. I had just responded to somebody. I'm sorry. I was trying to respond to several things. But had indicated that we would provide an opportunity early in this call to discuss if anybody wanted to. If that was something that you all wanted to discuss at another time, that's obviously, that's your call as well.

LYNN EVANS: Well, my suggestion is to just discuss any procedural issues that we might need to discuss, on a different call. But I think you're going to talk about the cargo and conveyance screening document. And I think we want to talk about the advisory team as well in that too. So those are two different things.

SCOTT HUDSON: All right. Well if we want to talk then specifically about the contaminated cargo screening, and the A Team's role in that, that's sort of next on my list. Also, the (inaudible) associated with that.

But we'll probably need to discuss separately

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1 if there's an emerging need for some decon conveyance
2 for the ship that's potentially contaminated, and the
3 guidance for that.

4 So we can talk for a minute, in a broader
5 sense, about what the A Team feels like their role ought
6 to be on those two separate issues. Then we can delve
7 into each one. So any thoughts on the Advisory Team's
8 role on these two issues, contaminated cargo screening,
9 or ship decon guide?

10 CHARLES MILLER (phonetic): This is Charles
11 Miller. Sorry, I was a little late getting -- Actually,
12 I hung up on you once, because I hit the wrong button
13 up here.

14 SCOTT HUDSON: Okay.

15 PAT SIMMONS (phonetic): Hello, this is Pat
16 Simmons calling from Customs and Border Protection.
17 Letting you know I'm on.

18 SCOTT HUDSON: Oh, great. Thank you, Pat.
19 Go ahead, Charlie.

20 CHARLES MILLER: One of the things I wanted
21 to say was, I think what happened was, here is a good
22 example where the Advisory Team was asked for its advice,
23 and attempted to do it.

24 But unfortunately, we are used to working
25 within established guidance, the protective action guides

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1 for the most part. And we (inaudible) there. When we
2 got into this cargo protection area, what we discovered
3 was, is the guides are non existent, or at least not
4 very well known.

5 We got into regulatory versus emergencies.

6 All sorts of issues which have now been teed up to an
7 assistant secretary level within USG.

8 (b)(5)

9
10 Because I think it was, it just got beyond
11 us. And it's been teed up at a much higher level than
12 what the Advisory Team has been doing in the past. So
13 I think the team tried to do its best.

14 And I'm pleased with that personally. But
15 I think we just, we got preempted, if you will, by a
16 much higher authority. And I, and it may come back down
17 to us.

18 As Ed said in a email earlier today, the
19 Advisory Team will be represented tomorrow at this meeting.

20 I don't know who it will be. But they will, I assume,
21 I suspect it could be Ed. But I think we just --

22 This was just one of those very interesting
23 situations, which we've kind of talked about in theory
24 at some of our meetings. But it never, had never actually
25 had it happen. And we just got, we got preempted, folks.

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1 Bottom line.

2 SCOTT HUDSON: Understood. And this is
3 Scott. Just from the interactions here, I'd agree with
4 that assessment. And just (inaudible) a character on
5 of its own. And it wasn't going to be solved easily
6 by, you know, advice or recommendations from a scientific
7 group. It's got policy implications.

8 CHARLES MILLER: Yes. Big policy
9 implications.

10 JOHN JENTZ: Charles, this is John Jentz,
11 from USDA.

12 CHARLES MILLER: Hi, John.

13 JOHN JENTZ: How are you doing? I guess
14 I'll see you Friday at that meeting. I'm going to go
15 with Cheryl.

16 CHARLES MILLER: Okay. Good.

17 JOHN JENTZ: I'm interested to see how that
18 gets resolved, just as a, you know, just to see how it
19 goes.

20 CHARLES MILLER: Oh, I'm with you.

21 JOHN JENTZ: I have another issue that's
22 related to this. And Glen here, Pat Simmons is on the
23 call. And if you wouldn't mind, if I could take a minute
24 or two to explain to you?

25 SCOTT HUDSON: Go right ahead.

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1 JOHN JENTZ: Yes. It has to do with the
2 cargo and conveyances. And so far we've been talking
3 about cargo containers that are potentially contaminated.

4 But that are, you know, containers. And
5 not necessarily the actual materials inside, and so forth,
6 and the vessels themselves. And what do we do about
7 that? And it was brought to my attention, and I'm working
8 this issue within USDA right now.

9 That in, I don't know if there are any here
10 currently. But we know that there will be in the next
11 few days, coming in from Japan. Some empty cargo ships
12 that are used to transport grain. They are coming in
13 empty, and will be filled up here at U.S. sites, near
14 ports with grain, very expensive grain.

15 The grain is poured into an empty hold in
16 the ship, that is, can be and is, from time to time,
17 exposed to the environment, you know, as it's offloaded
18 in Japan, as it sits at the dock in Japan, and so forth.

19
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And I'm working on trying to figure out --

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1 My sense is that we don't want to pour grain into a
2 cargo hold that is possibly contaminated. And I would
3 like to do verification on these before we pour our grain
4 in there.

5 The grain is supplied by a private company,
6 through an exporter, and so forth. The USDA does do
7 an inspection, just a visual inspection of the hold,
8 while it's empty, before the cargo, before the grain
9 is poured in there. But we don't test for any contaminants
10 or hazardous materials.

11 I also understand, from talking to our folks,
12 that Customs and Border Protection agents do a walk through
13 of the ships, as they come into port, as well. And that
14 they do carry the radiation pagers with them while they're
15 doing it.

16 My concern, of course, is that the grain
17 is going to be used in the food chain. It's going to
18 get into food supplies. So therefore, I think, and I'd
19 like to kind of know, that the Advisory Team might be
20 with me on this one.

21 I would like to see that these cargo holds
22 get a radiation survey. Maybe not a huge, extensive
23 survey. But enough of a survey so that we could all
24 be comfortable that we're pouring our grain into a ship
25 that's free of contamination. And we can ship it back

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1 to Japan with that level of comfort. And that's where
2 I'm sort of heading with this.

3 I don't think it's a U.S. Government
4 responsibility. And I think that the shippers can take
5 care of it by hiring an appropriate company to come in
6 and do that for them. They do it for other things there.

7 As I said, we do some testing of the grain
8 just before it goes out as well. So there's lots that
9 goes into it. So I don't think it will be, in a sense,
10 holding back commerce, or anything like that. But I
11 think it's the kind of thing we should probably do.

12 And we should probably do a better job than
13 just holding up the rad pagers, which I don't think give
14 us enough information about surface contamination at
15 the levels we might be interested in. It's just an issue
16 that I've identified here as a potential issue.

17 And, you know, the kind of thing that, at
18 least us as an agency, the USDA, I think we'd be interested
19 in just being able to confirm that kind of information.

20 I would be willing -- And I don't know how you guys
21 feel about it.

22 If the Japanese Government certified it
23 before it left, and there was some paperwork to show
24 that they did a contamination survey of it, to show that
25 it was clean in the hold, then I wouldn't, I would probably

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1 buy off on that. But by the same token, I'm like, right
2 around this time I might also do a quick check as well
3 here. I'm kind of waffling in that area.

4 SCOTT HUDSON: Thanks, John. What kind of
5 feedback would you like from everybody?

6 JOHN JENTZ: Just, I'm assuming that
7 everyone -- I don't hear anything. So I'm assuming all
8 the heads are nodding in agreement with me.

9 SCOTT HUDSON: Yes.

10 JOHN JENTZ: There you go.

11 GENE (phonetic): I think you're also
12 protecting a situation. So that when the cargo ship
13 arrives in Japan, that for some reason it doesn't get
14 rejected as well.

15 JOHN JENTZ: That's a great point.

16 GENE: Because they have been rejecting
17 shipments coming in from other countries, for other
18 reasons.

19 JOHN JENTZ: Actually, that's a great point,
20 Gene. That is something that we brought up as well here
21 on our end, and thought about that. And Pat Simmons,
22 I think I've characterized that correctly. At least,
23 our folks indicated to me that even an empty cargo ship
24 like that, your Border Protection Agents would go on
25 board?

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1 PAT SIMMONS: Yes. That is correct. They
2 board for a variety of different reasons, to include
3 the immigration piece.

4 JOHN JENTZ: Got you.

5 PATSIMMONS: Yes. Andtheywilldoacursory
6 scan, as we do with all arriving vessels. And of course,
7 any team that you would hire is welcome to go on the
8 ship, after the ship is cleared into the commerce.

9 JOHN JENTZ: Great. Thanks, Pat. And I did
10 send you a note on those pagers. I just wanted to kind
11 of be able to --

12 PAT SIMMONS: I just got it.

13 JOHN JENTZ: -- answer that question. I
14 don't think the pagers are the kind of instrument that
15 we are, that I'm looking for in this regard. But I do,
16 I would talk to your folks about it.

17 And again, I don't want to make this a U.S.
18 Government responsibility. I think this could be done
19 easily by the folks who own the grain, and have to certify
20 the shipment anyway.

21 PAT SIMMONS: Yes, the pagers, you wouldn't
22 be looking for that. And again, we would not certify
23 anything anyway. So it's, that's -- You would be looking
24 for an outside entity to do that for you.

25 JOHN JENTZ: Sounds good to me, folks. I

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1 appreciate just the opportunity to discuss it. And get
2 some, just basic agreement on it, or feedback. Anything
3 else, you can just send me a note, if you have it.

4 CHARLES MILLER: John, before you go off
5 that subject, I have a question for you. And if you've
6 already answered it, I apologize. I had some other
7 background conversations I was conducting at the same
8 time. Let me ask you a question. What's your definition
9 of when is that cargo hold clean? In other words, what's
10 your standard you're going to use?

11 JOHN JENTZ: You're not going to start that
12 again, are you, Charles?

13 CHARLES MILLER: I sure am.

14 JOHN JENTZ: I did start to think about that
15 issue. I will -- I don't know what I will use for it.
16 And then I may come back to the Advisory Team to help
17 with that again. I'm hoping that what I find is that
18 the company we use will be able to tell us that it's
19 not contaminated. I'll be honest with you.

20 CHARLES MILLER: Well but --

21 MALE PARTICIPANT: Which would probably be
22 the point for the becquerel level.

23 CHARLES MILLER: Yes. But the point is,
24 if you send a meter in there, you're going to find something.

25 JOHN JENTZ: Well actually, I was hoping

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1 to do removable surface contamination.

2 CHARLES MILLER: Okay. But even then --

3 JOHN JENTZ: Yes.

4 CHARLES MILLER: -- you might find a little
5 bit of something.

6 JOHN JENTZ: Yes.

7 CHARLES MILLER: And you're going to have
8 to decide what your levels are, I think.

9 JOHN JENTZ: Yes. I agree. And, you know,
10 we'll maybe have a further discussion about that. But
11 it's my intent -- But my feeling is, Charles, and that
12 I don't think you're disagreeing that the survey should
13 be done, right?

14 CHARLES MILLER: Oh, yes. Absolutely.

15 JOHN JENTZ: Okay.

16 CHARLES MILLER: I'm not disagreeing with
17 that at all.

18 JOHN JENTZ: Got you.

19 CHARLES MILLER: But this whole issue --
20 One of my concerns -- And I'll just tell this to everybody
21 on the phone. I'm sitting here, I'm detailed up to the
22 National Security Staff from CDC. I have been for two
23 weeks.

24 And I'm now scheduled for at least a couple
25 of weeks more, just to help them with public health issues

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1 around this event. And one of the things that I've come
2 to the conclusion on is that we've got, you know --

3 Our Protective Action guides are useful.

4 But they vary by orders of magnitude in the way we're
5 applying them. I mean, this whole issue of the
6 contaminated stuff, for example.

7 I mean, right now I can't, you know, I can't
8 have a cargo container that gives me a dose if I'm standing
9 there in it for a year, that gives me a dose of 1 millirem.

10 But I can drink, or give my kids milk that will give
11 them a dose of 500 millirem, a half a rem. Now there's
12 something that's not quite right about that, in my opinion.

13 And I think reconciliation of some of these
14 numbers -- That's why I keep asking for these numbers.

15 Because I think reconciliation of those numbers is one
16 of the issues that's going to come out of this whole
17 Japanese even for the U.S. And it's going to be real
18 interesting to see how it falls out, for all of us.

19 JOHN JENTZ: Got you. I actually brought
20 that up yesterday at a meeting up in the department.
21 And I believe that was taken for action. That, you know,
22 we need to put a working group together to get everybody's
23 input, the operators, the regulators.

24 And let's try to make sense of what everybody
25 has. And come up with something at least that we can

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1 all agree on. Or at least for a situation such as this
2 --

3 CHARLES MILLER: Yes.

4 JOHN JENTZ: When we really need guidance.
5 And we need it now.

6 CHARLES MILLER: Right.

7 JOHN JENTZ: That type of thing. Even
8 interim guidance would be nice.

9 CHARLES MILLER: Well, I think we're going
10 to see in the long -- It may not get done in the next
11 week, or next month even. But there's got to be -- I
12 think there's going to be some very high level interagency
13 discussion about, you know, about this whole thing.

14 JOHN JENTZ: Oh, yes.

15 CHARLES MILLER: And I think, and I've
16 already talked to some folks from CDC. And I think there's
17 a lot of interest on it at multiple levels. But we've
18 got to do something. This is -- Before it ever happens
19 again, although we all hope and pray it never does.

20 JOHN JENTZ: Sure.

21 CHARLES MILLER: But before it ever happens
22 again, we got to get our act together just a little bit
23 better, I think.

24 JOHN JENTZ: Well, you know, and not even
25 a situation like this. But even what we're doing in

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1 the ports -- This is passed, by the way, from customs.

2 Even what we're doing in the ports right now. We've
3 been doing this stuff for ten years. But have we been
4 doing it right?

5 CHARLES MILLER: Yes.

6 JOHN JENTZ: If we haven't been, let's find
7 out how we can do better. And let's, certainly we should
8 all be in line, so if asked the question, we all at least
9 have the same frame of reference.

10 CHARLES MILLER: Yes. I agree with you.
11 And that's what we don't have right now.

12 JOHN JENTZ: You know what's the strangest
13 thing is, that it seems that for things such as granite,
14 that will give you a 304 on the PRD, it's okay. But
15 for man made isotopes, that same 304 is not okay.

16 CHARLES MILLER: Yes, yes.

17 JOHN JENTZ: And things such as that, I mean,
18 we just have to work through those issues. And again,
19 I guess we can thank God we never had to do it before.

20 But we certainly see that now we really need to be all
21 on the same page.

22 CHARLES MILLER: Yes.

23 JOHN JENTZ: And then --

24 SAM KEITH: Charles

25 CHARLES MILLER: Unfortunately the issues

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1 you're raising, like man made versus natural occurring,
2 are issues that have been around since World War II.

3 JOHN JENTZ: Yes, sir.

4 CHARLES MILLER: And if we're going to have
5 a -- But we need to revisit them.

6 JOHN JENTZ: Yes.

7 CHARLES MILLER: Sam, I'm sorry. I think
8 I cut you off.

9 SAM KEITH: Charles, this is Sam.

10 CHARLES MILLER: Yes.

11 SAM KEITH: Another thing --

12 CHARLES MILLER: I recognized the voice.

13 SAM KEITH: Some of the regulatory values
14 come from way back in the dark history. We're not really
15 sure what drove those, or what the basis is. Whether
16 it's a dose based or risk based value.

17 And the different between dose based and
18 risk based is something that is difficult to get your
19 arms around. And so coming to grips with that, and
20 wrangling that here to the ground, may be the only answer.

21 CHARLES MILLER: Well I think that's part
22 of it, Sam. I don't disagree. But I think the other
23 issue is, do you apply regulations in an emergency?

24 SAM KEITH: Well these regulations don't
25 apply in an emergency, don't apply to something you have

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1 no control over overseas. They don't apply in times
2 of war either.

3 CHARLES MILLER: Well, that's -- But now
4 we've got a situation where what's happening -- In this
5 world of ours, what's happening overseas is impacting
6 what's happening here. So there's just a lot of issues.

7 SAM KEITH: Just say that we're at war.

8 CHARLES MILLER: Yes.

9 SAM KEITH: Although I probably shouldn't
10 say that.

11 CHARLES MILLER: Yes. You're -- Yes,
12 there's something to be said for that, unfortunately.

13 SAM KEITH: Yes, indeed.

14 CHARLES MILLER: Yes, I agree.

15 SCOTT HUDSON: Well this is Scott.
16 Certainly there's a lot of people in the room here, you
17 know, nodding their heads and agreeing with you as well.
18 It would be wonderful if we could just all adopt, you
19 know, one dose standard, something like that.

20 So maybe that's something that folks can
21 participate in in the future. I'm going to try to, you
22 know, be a moderator a little bit, and steer us back
23 to our agenda. Was there any other conversation that
24 folks wanted to have on that particular topic we just
25 discussed?

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1 Okay, hearing none, I'm just going to go
2 down my list. A couple of things that are just
3 opportunities for people to update on what we discussed
4 yesterday.

5 Anybody have anything to add about Tokyo
6 Embassy requests for on site assistance? Okay, hearing
7 none, we'll move on. USAID requests for nuclear
8 capabilities assistance. Anybody have anything they
9 wanted to mention there?

10 JOHN JENTZ: I think that was a specific
11 to USDA. A request from USAID. They included a nuclear
12 capabilities technologies statement in there. I
13 responded to them. So I don't think it's going to the
14 rest of the Federal Government. I think we can close
15 that one out.

16 SCOTT HUDSON: All right, understood. I'm
17 going to drop the last two items off our agenda, somebody
18 gives me directions otherwise. All right. We had talked
19 some yesterday about forming a working group on
20 domestically produced milk and drinking water.

21 The issues that are coming up, because we're
22 detecting iodine in precipitation. And trying to
23 establish some sort of trigger for assessing U.S.
24 supplies.

25 Mike Boyd (phonetic) had talked about having

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1 done some previous work. And unfortunately, Mike's not
2 on the call right now. But certainly, you know, the
3 rest of the group, if you have anything that you want
4 to discuss about that particular item.

5 I'm doing my best to forward the messages
6 that I've got, as far as participants for that work group,
7 to Mike Boyd. And we're going to try to get that
8 consolidated. But does anybody know if Mike has set
9 up a call for that particular topic yet?

10 JOHN JENTZ: I don't think so. Not yet.
11 I haven't seen anything from Mike anyway. I confirm
12 that I'm a member of it for USDA. But my issue now is,
13 and I don't know if it's on the -- Well I don't see
14 it anywhere else on the agenda. But there has been a
15 positive on milk, right?

16 SCOTT HUDSON: Well, that's a real sticky
17 thing right now. Apparently we are trying to figure
18 that out. We're trying to confirm that. That was the
19 big distraction that we had. And that's why we were
20 late on the initial call.

21 JOHN JENTZ: I got you.

22 SCOTT HUDSON: I did ask, at the bottom of
23 the list here. And basically, we're looking into that.
24 We simply can't find the origin for that. the thinking
25 amongst ourselves, from the EPA side, we don't have a

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1 final data package that confirms any positive milk results
2 as of now. If it exists we haven't located it yet.

3 JOHN JENTZ: Got you.

4 MALE PARTICIPANT: So are you talking about
5 positive hits on NARO (phonetic) side, or outside of
6 NARO?

7 SCOTT HUDSON: Something that, I don't have
8 any idea of the data that goes through NARO. I'm talking
9 about from the environmental unit here at EPA. We see
10 the data packages that come from there.

11 The numbers get QCd, and they get posted
12 on the RadNet or published otherwise. And we do not
13 have, I don't have in hand anything that I've seen.
14 Now this is my responsibility. I've kind of asked around,
15 and we've checked into it.

16 But as far as we can tell, we don't have
17 a data package that right now points to a positive result
18 in milk. However, there is a lot of buzz about media
19 having some of this information.

20 CHARLES MILLER: Yes.

21 MALE PARTICIPANT: There will be a RadNet
22 call in a couple of hours.

23 CHARLES MILLER: Scott?

24 SCOTT HUDSON: So anyway --

25 CHARLES MILLER: Scott?

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1 SCOTT HUDSON: -- if that's where we're
2 hitting it, that's the amount that I know.

3 JOHN JENTZ: Okay.

4 CHARLES MILLER:

5 (b)(5)
6
7

8 SCOTT HUDSON: Appreciate that. Thank you.

9 JOHN JENTZ: And if it's less than 150 I
10 think we're in good shape.

11 ELLEN MORRISON: And this is Ellen Morrison.

12 The FDA thinks there's a hit too. And our press folks
13 were on a call with your press folks. So I think that
14 it's good to have connections like these kinds of calls.

15 But that's our information too, that there was a positive
16 sample of a very low level out of Washington.

17 CHARLES MILLER: Yes. That's what I'm
18 hearing here as well.

19 ELLEN MORRISON: So, yes, we would like that
20 data to be verified as well, as you know.

21 SCOTT HUDSON: Right. I'm sure we're all
22 leaning forward looking for that particular one.

23 ELLEN MORRISON: Yes. Thank you.

24 JOHN JENTZ: Can I ask the backup question
25 then? If it comes out to be true, can you predict, can

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1 anybody predict that's been doing this a long time?
2 What would be the next food pathway of interest, or item
3 of interest to test?

4 There will be, you know, the public will
5 figure out, if it's in milk, what else is it in? And
6 what else should we be testing. Can we start, I mean,
7 I'm just trying to forward, a little bit forward think
8 on that.

9 CHARLES MILLER: Leafy vegetables.

10 JOHN JENTZ: Got you. Do our spinach too,
11 in other words, and all that kind of stuff?

12 CHARLES MILLER: You got it. The items,
13 the next things you worry about are leafy vegetables.

14 JOHN JENTZ: So luckily, I'm not in FDA.

15 MALE PARTICIPANT: What about drinking water
16 from surface water sources?

17 JOHN JENTZ: Well we've been doing that,
18 right?

19 CHARLES MILLER: Yes.

20 SCOTT HUDSON: That's been moved up.

21 JOHN JENTZ: All right.

22 CHARLES MILLER: Yes, in terms of monitoring.

23 But the thing about milk is, of course the cows --
24 And especially goats, even more than cows. And I hope
25 somebody's getting --

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1 If there's goat's milk out there, and I know
2 there is some, they probably ought to be looking at that.

3 But they concentrate it more. So you're going to see
4 a higher value in milk than you are in water.

5 SCOTT HUDSON: That's a good point, Charles.

6 CHARLES MILLER: As long as you -- And now
7 we're talking about iodine 131. And so far I think that's
8 all anybody's measuring.

9 ELLEN MORRISON: Can I just ask a question?
10 This is Ellen Morrison, FDA.

11 CHARLES MILLER: Hi, Ellen.

12 ELLEN MORRISON: How are you doing, Charles.
13 When you sample the milk, when somebody samples the
14 milk onto this program, where are they getting the milk
15 samples from?

16 SCOTT HUDSON: Well, since EPA doesn't know
17 if it was there, I'm not sure anybody knows.

18 MALE PARTICIPANT: Well I'd asked the same
19 question on the RadNet call last week. And they said
20 that they were trying to pull the samples from dairies,
21 directly from dairies.

22 ELLEN MORRISON: Directly from dairies?

23 MALE PARTICIPANT: Yes, rather than
24 distributors. But I'd have to confirm that.

25 ELLEN MORRISON: Yes, yes. Okay.

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1 MALE PARTICIPANT: Because I asked the
2 question about where, you know, the milk source, are
3 the cows acting on stored feed, you know, after the winter?
4 Or are they grazing on open land yet?

5 ELLEN MORRISON: Yes, that's a good
6 question.

7 MALE PARTICIPANT: And once you get to the
8 distributors, you know, you could have a mix of both.
9 And you'd have to go from, you know, a grazing dairy
10 to really get that information.

11 ELLEN MORRISON: Yes. Because we're also
12 concerned with beef --

13 MALE PARTICIPANT: Yes.

14 ELLEN MORRISON: -- here at the FDA. Whoever
15 said they were lucky there weren't in the FDA was correct.

16 JOHN JENTZ: That's me from USDA.

17 ELLEN MORRISON: Oh, thank you. Thank you,
18 John.

19 CHARLES MILLER: So this is -- Personally,
20 I'm glad the two of you got it all figured out.

21 ELLEN MORRISON: Yes. Thank you, Charles.
22 We'll be back in touch.

23 MALE PARTICIPANT: Quick question on the
24 milk. Is it raw milk only that you're looking at? Or
25 raw and pasteurized?

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1 MALE PARTICIPANT: I can ask on the call
2 later today to verify. Unless somebody else from EPA
3 knows.

4 SCOTT HUDSON: I'm just getting some
5 information on the side that says, a RadNet page that
6 says that we sample pasteurized milk. But I think if
7 we're going straight to dairies, you know, we'd want
8 to confirm that.

9 MALE PARTICIPANT: Yes. That's what I heard
10 on recent calls, that they were going straight to dairies
11 when they moved up the dairy sampling. So I wouldn't
12 look for whether it's pasteurized or not. It would be
13 raw. And I'll try to get information on (inaudible)
14 contents and all that other stuff, in case that matters.

15 SCOTT HUDSON: All right. Other discussion
16 about domestic milk or drinking water?

17 MALE PARTICIPANT: Well I just have one
18 question. I was looking at the '98 Accidental Radioactive
19 Contamination, you know, documents from FDA. And I was
20 just wondering what's the relationship between that and
21 the 1982 Federal Register notice that's been the PAG
22 for (inaudible) manual

23 You know, especially when it comes down
24 to, you know, the preventative, you know, PAGs. You
25 know, I guess the question is, what would be most legally

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1 in place as far as actions to take if there were, you
2 know, significant events in milk?

3 ELLEN MORRISON: Is Bill or Pat Hanson
4 (phonetic), are you on?

5 BILL: Hi, this is Bill.

6 ELLEN MORRISON: Can you answer that
7 question?

8 BILL: I'm sorry, I'm bouncing back and forth
9 between emails. Ask the question again?

10 MALE PARTICIPANT: Well, the question is,
11 like in the 1982 Federal Register notice that's in the
12 PAG 400 manual. They actually, they have some detail
13 on the response level for preventative PAGs, you know,
14 for milk.

15 And, you know, and then there's the 1988,
16 you know, guidance document out of FDA, you know, that
17 basically, you know, moves to using DILs (phonetic),
18 rather than the preventative PAG. I guess the question
19 is, you know, between the two documents, what would apply
20 in this situation?

21 BILL: The old one's gone. The new one's
22 in.

23 MALE PARTICIPANT: The new one's in. So
24 '98 --

25 BILL: It replaces it.

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1 MALE PARTICIPANT: -- document with the DILs,
2 that's what we should be using. Okay.

3 BILL: Yes, it replaces it. And the DILs
4 are considered to be something that's available for
5 immediate use. And that is ready to be applied immediately
6 in any situation. And until such time as you can do
7 a full blown risk analysis, with a risk assessment, risk
8 and, you know, the whole shebang.

9 And so the typical length of time is thought
10 to be one year. In other words, the DILs are a generic,
11 default set of numbers that are ready to be thrown in
12 there, that you could use under the expectation that
13 you would take a closer look during the course of the
14 year, and decide whether you would continue to use them.
15 Or modify and use some other numbers.

16 MALE PARTICIPANT: Okay. So you could use
17 those DILs directly? You don't have to use a percentage
18 of the DIL?

19 BILL: That's correct.

20 MALE PARTICIPANT: (Inaudible).

21 BILL: That is correct. And the nature of
22 what they are, they are something that has to be always
23 emphasized. Because they are not a delineation between
24 safe and unsafe. They're ultra conservative.

25 And if a person were to, in the process of

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1 using them, you would be expected -- The typical person
2 would be expected to receive one tiny fraction, a micro
3 fraction of a PAG, not the PAG. And so, you know, that
4 idea that they're a delineation between safe and unsafe
5 is just not correct.

6 But in this situation they're just
7 immediately available. And that's why they're being
8 used. There are other sets of numbers out there. There
9 are numbers that are from a working group called the
10 OTP working group, and the FRMAC assessment folks. But
11 it would use turbo.

12 FRMAC could very well use different dosimetry.

13 And the numbers that would come from there for DILs
14 would be slightly different. But because of the
15 conservative nature of what these things are, they're
16 virtually equivalent.

17 MALE PARTICIPANT: Yes.

18 BILL: And right now, the ball is rolling
19 with the DILs. And so that's what we're expecting to
20 see. But I mentioned that other information in case
21 someone were to ask. Everyone here on this call would
22 be able to say, yes we know that there's differences.

23 But these are just as applicable. And we
24 all know it. And this is what we're using. And they're
25 all conservative, so it's all good, so to speak.

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1 CHARLES MILLER: Let me ask something there.

2 I don't disagree with a word you just said. But I'm
3 learning, I guess you could say, I'm learning the hard
4 way that there is a real challenge trying to explain
5 to people the idea of conservatism, and what's safe,
6 and not safe, and how we don't use those words.

7 And the fact that I've got two numbers that
8 are not exactly the same, to the 13th decimal place,
9 doesn't mean that they're different. So everything you
10 just said is true. But it makes for an interesting
11 communications challenge.

12 BILL:

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14 (b)(5)
15
16

17 CHARLES MILLER: Yes. But you've got
18 explain -- Somebody at our level has got to explain
19 to the person at the next level exactly what this means.

20 BILL: Yes. Usually with a little bit of
21 time that you don't have. And a statement.

22 CHARLES MILLER: Yes.

23 BILL: Yes, I've always had good luck with
24 that, conveying the concept. Whether they understood
25 it thoroughly or not, no.

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1 CHARLES MILLER: Yes.

2 BILL: But convinced that, yes, we actually
3 know what we're doing.

4 CHARLES MILLER: Yes.

5 MIKE SARAP: (phonetic): Yes, I have a
6 question. This is Mike Sarap at CDC. Are the results
7 of milk and water testing available? And if they are,
8 where are they available.

9 SCOTT HUDSON: This is Scott with the EPA.
10 There are some RadNet results that are posted for air.
11 Right now I don't believe we have any results posted
12 for milk. And then on precipitation, I think we're like,
13 in the process of having some data that's posted now.
14 We're starting to see some things. Go ahead.

15 MALE PARTICIPANT: I was just going to say,
16 if you want old historic information, going back to '78,
17 I can send out the link for that. And it's got pasteurized
18 milk data.

19 LYNN EVANS: That would be great.

20 MALE PARTICIPANT: All right.

21 SCOTT HUDSON: We'll do that. But as far
22 as the current situation now, the data's being posted
23 on RadNet on the EPA website. We do have the air sampling
24 data from the fixed stations, and the deployable. I
25 just am not certain on the status of the precipitation

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1 right now. That's something that's kind of just starting
2 to come in.

3 And then as far as milk right now, again,
4 deferring to our earlier conversation, to my awareness
5 we only have one result right now. And that's a non
6 detect. We expect to get more soon.

7 But I think there's going to be a little
8 bit of a bottleneck to make sure that we've got our ducks
9 in a row, considering what's happened today with the
10 milk results.

11 MIKE SARAP: Thank you.

12 LYNN EVANS: This is Lynn Evans. Just about
13 an hour before the call, I sent up a request to EPA to
14 ask them additional items to Mike's, for consideration
15 in Mike's work group.

16 And specifically, if they could consider
17 action items for, excuse me, action levels for cesium
18 and iodine in air, tap water and rainwater. So could
19 that be passed along to Mike, for the workgroup to consider
20 adding that to their tasking?

21 SCOTT HUDSON: Certainly, Lynn. I saw your
22 email and forwarded that straight on to Mike. So I believe
23 he's got it right now. But again, I have not talked
24 to him. He's off on something else right now.

25 LYNN EVANS: Great. Thank you.

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1 JOHN JENTZ: That's a good idea. It's always
2 good --

3 SCOTT HUDSON: Any other discussion --

4 JOHN JENTZ: to start thinking --

5 SCOTT HUDSON: Go ahead.

6 JOHN JENTZ: I just wanted to say to Lynn,
7 it's a good idea to start thinking about that kind of
8 thing.

9 SCOTT HUDSON: Yes, absolutely. I think
10 a lot of folks are starting to think about triggers for
11 the next set of actions. All right. Moving on to some
12 kind of related rainwater monitoring results, messaging,
13 and sampling plans. Does anybody have anything that
14 they want to discuss on that topic?

15 JOHN JENTZ: Again, that's mine. You can
16 take that off there, Scott, if you want. That's just
17 all, you know, wound up in all this monitoring and so
18 forth for -- And the trigger levels as well.

19 And I guess, what I got also today from the
20 EPA messaging stuff that I saw coming through our Office
21 of Communications, was that you are going to increase
22 your milk sampling program?

23 SCOTT HUDSON: I'm not certain that that's
24 the correct interpretation. From what I've heard, what
25 we're doing is, we are accelerating the schedule. We're

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1 moving things up. But right now, nobody's talking about
2 increasing the frequency.

3 That certainly may change, particularly
4 anything related to milk right now (inaudible). But
5 right now, my best answer to you is that we have accelerated
6 the schedule. We've moved some sampling up. But right
7 now, we're not committed to increasing frequency. That
8 certainly could change.

9 MALE PARTICIPANT: Yes. I think that was
10 the point of the trigger that they were discussing, or
11 looking into.

12 JOHN JENTZ: It is. But I think there was
13 something that was circulating around there that said,
14 based on this potential for a hit on the milk for iodine,
15 that you were going to go out and do some additional
16 sampling. So just be aware of that.

17 SCOTT HUDSON: Very well. Yes, there could
18 be something on there in the messaging that says, if
19 we get a certain trigger we would increase that. Yes,
20 that certainly is fair.

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(CONFERENCE CALL INITIATED)

SCOTT HUDSON: All right. Next item I had on the agenda. Unfortunately, because we got caught off yesterday, I don't know if you all wrapped it up or not. The A Team April and May schedule, Lynn and Mason suggested about things that could be tackled, things that could be moved. Any conversation or discussion needed on that item?

LYNN EVANS: Well, I just would like to get some feedback from the agencies, the Advisory Team agencies on that. I'm getting feedback like, you know, we can try to provide people for the specific drill we mentioned, and things like that.

But I just -- Should we continue trying to be involved in that drill? I could try to line someone up if you think that we can -- I know it's hard to predict our availability then. But we can't wait until the last minute to suddenly find we're not available, and then let them know.

JOHN JENTZ: Well the question I had for you, Lynn, and to me the issue is -- And this is based upon what Ron Graham (phonetic) brought up yesterday about the SONGS exercise out in California. So, and then again, I apologize. I'm not the most knowledgeable

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1 about how these exercises go.

2 But if it's just an exercise, and it's just
3 a routine response and, you know, collaboration that
4 the A Team would do, that's great. But Ron brought up
5 -- And I don't know, I guess you haven't heard back
6 from the Region IX FEMA person yet, Lynn, have you?

7 LYNN EVANS: No, I haven't.

8 JOHN JENTZ: Okay. If there is public
9 interest, and there is a public meeting that is held
10 after all of these exercises, you know, according to
11 Ron, he was asked to participate in that. And that is
12 certainly sensitive issue.

13 And we don't participate in public meetings,
14 you know. Our public affairs folks take care of that
15 for us. So that's something that we would not do.

16 And, you know, there are no other
17 opportunities for us to be involved in any kind of public
18 forum at these exercises that, you know, we don't want
19 to be involved in, is it? Are there, excuse me.

20 LYNN EVANS: Not usually no. All right.
21 I mean, I can't recall anything --

22 JOHN JENTZ: Okay.

23 LYNN EVANS: -- like that recently.

24 JOHN JENTZ: And so therefore, I assume you
25 want to continue to support the exercises. But it just

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1 may be a function of, there's no one on the A Team that's
2 available, right?

3 LYNN EVANS: Well, I think we're covered
4 in terms -- You know, again, right now, unless something
5 else happens and prevents our Advisory Team members to
6 be on site for the SONGS exercise, I think we're covered
7 there.

8 The thing about that particular exercise
9 is this new thing that we heard from Ron, with this public
10 meeting afterwards. And we're trying to get information
11 on that to see exactly what they have in mind.

12 JOHN JENTZ: Is that not a standard thing
13 for these exercises, do you think?

14 LYNN EVANS: No, no.

15 JOHN JENTZ: Okay.

16 LYNN EVANS: No. So that's one item, is
17 that new caveat with the SONGS exercise. And I just
18 don't have any more information on that right now. I'm
19 waiting on a response from the FEMA Region IX rep on
20 that.

21 But the other thing is, we have a drill.
22 Not an exercise, it's a drill that we had agreed to
23 participate in. By phone only, so it's a relatively
24 simple matter. And that's coming up, it was the Vermont
25 Yankee plant.

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1 And so if you think you can commit one person
2 from each of your agencies to be available by phone for
3 those two days, as needed, then I'll coordinate that.

4 But if you don't think we can commit to that, then we
5 need to decide that now and let Vermont Yankee know that.

6 JOHN JENTZ: Okay, will do, Lynn. Like you
7 saw for me, I asked my group to see if they're, if we're
8 available.

9 LYNN EVANS: Okay. Should I assume that
10 EPA will be able to provide a name of a contact for those
11 two days to be available by phone as needed? And FDA?
12 And certainly CEDC would do that if everyone else is
13 going to.

14 SCOTT HUDSON: Lynn, this is Scott trying
15 to answer for Ed. That's something that he really is
16 going to have to answer. I simply don't know.

17 LYNN EVANS: Okay. Well that's what I'm
18 waiting on. So everyone needs to let me know that.

19 JOHN JENTZ: And there's no thought to back
20 out of these at this point, is there? Because of
21 sensitivity or anything like that, right?

22 LYNN EVANS: Well not due to sensitivity,
23 I don't think. FERMAC, for instance, has already said
24 that they could not participate. And I think it's because
25 of all the other activities they're involved in with

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1 this Japan response.

2 JOHN JENTZ: Got you.

3 LYNN EVANS: So all I'm trying to do is look
4 at what we've got coming up soon, in the next couple
5 of weeks, specifically in April. And ask you if you
6 think your agencies can continue to provide the support
7 that they said they could provide.

8 And I know a lot of this is contingent on
9 what happens in the next few days, next week. But if
10 we know we need to decline, at this point, then let's
11 make that decision, so that I can inform these states
12 and utilities. So I feel like I'm beating this to death.

13 RACHEL EVANS: Lynn, this is Rachel.

14 LYNN EVANS: Yes.

15 RACHEL EVANS: You know, I don't know what
16 FDA can commit to at this point for that exercise. Because
17 I know next week Scotty (phonetic) will be sitting in
18 for Mike. And for Mike Noska (phonetic).

19 And I will be attending a meeting, so I know
20 I won't be able to take the call. Terry Jones (phonetic)
21 will probably be tied up on the Pacific Region with his
22 activities.

23 LYNN EVANS: Right.

24 RACHEL EVANS: And so, I do know the new
25 RRHR from Northeast Region, George Allen, will be at

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1 that exercise. But I think he's participating in it
2 as an activity that he has to do for his rep training.

3 LYNN EVANS: And this is a drill. So you
4 mean he'll be at the drill coming up?

5 RACHEL EVANS: That's what he told me.

6 LYNN EVANS: Yes.

7 RACHEL EVANS: Yes, it's part of rep.

8 LYNN EVANS: Right. Not the exercise --

9 RACHEL EVANS: Right.

10 LYNN EVANS: -- the drill. Okay.

11 RACHEL EVANS: Yes. So I don't know if we
12 really will have, you know, coverage.

13 LYNN EVANS: Well my suggestion, and again,
14 talking about the Vermont drill. I hate to do this,
15 but it is a drill. It's not an exercise. So my suggestion
16 has been, let's tell Vermont Yankee that because all
17 of our other activities surrounding this Japan response.

18 That we would not be able to participate
19 with them on the drill. But at this point we are planning
20 to participate in their exercise, their graded exercises
21 coming up later. So that's what I had suggested.

22 RACHEL EVANS: Well I second that
23 suggestion.

24 LYNN EVANS: Is everybody -- Is there a
25 third, or whatever the rules are?

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1 MALE PARTICIPANT: Well we don't have to
2 do that here. Just Sarah, me and Ed that usually does
3 that.

4 SCOTT HUDSON: What I'm hearing from the
5 EPA folks is that they would back up that recommendation
6 as well. We're being told to prepare for staffing for
7 this event for quite a while. That's going to eat up
8 a lot of the (inaudible) EPA people. So we're in line
9 with that suggestion as well.

10 MALE PARTICIPANT: Yes.

11 LYNN EVANS: Okay. I will tell Vermont
12 Yankee that we are sorry, but we won't be able to participate
13 in the drill. I don't think that's going to cause too
14 much heartburn.

15 But that we are planning to still participate
16 in their exercise, which is later. What is that, June,
17 or something like that? May, it's in May. And of course,
18 that could be an issue, depending on what's happening
19 at that point in time. But we're not talking about that
20 right now.

21 So okay, you've answered one of my questions.

22 I will need to discuss the SONGS exercise again, once
23 we get more information on exactly they'd like for us
24 to do. But it's a public briefing, or whatever. I'm
25 done with this one.

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1 SCOTT HUDSON: All right. Thanks, Lynn.
2 Any other comments on that? Okay, next item. I just
3 wanted to mention to you that one of the things that's
4 being discussed here in results, is a result of seeing
5 rainwater results, or expecting rainwater results.

6 It's (inaudible) some sort of either revision
7 or revisit to the drinking water PAG, as something that's
8 more appropriate for an interim measure. Particularly,
9 is there anything that gives any latitude. And that
10 is a very (inaudible) sort of effort.

11 Basically it's a response to the situation
12 that we're facing now. There was some discussion about,
13 well rainwater versus drinking water. How long does
14 it take to get through the water system. And one of
15 the wrinkles that is coming out is, a lot of discussion
16 from our folks in Region IX and X, people on the islands
17 that collect rainwater, use a cistern, and drink that
18 water, whether filtered or not.

19 And does the drinking water PAG necessarily
20 address that? So I don't really have much more to share
21 about that, with you than that. Other than that was
22 something that's starting to get a lot of interest here
23 at the EOC. Any discussion about that?

24 MALE PARTICIPANT: Well to tell the truth,
25 the drinking water PAG is 4 millirems, averages throughout

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1 the year. So if there's some short term (inaudible),
2 I'm sure that they could be averaged out throughout the
3 year. And we'll see what the results end up being.

4 SCOTT HUDSON: Right. Yes. That
5 specifically was sort of the nature of the conversation
6 with regard to iodine 131.

7 MALE PARTICIPANT: Yes. It's all a matter
8 of how long do we expect to see, you know, the elevated
9 readings, if they are elevated in drinking water.

10 SCOTT HUDSON: Right, right. Yes, there
11 was some discussion of very informal, very beginning
12 preliminary stuff. But trying to make an estimate for
13 how long can we impose some sort of interim drinking
14 water PAGs, specifically for iodine, or something like
15 that in the shorter term.

16 It would still follow the same logic as the
17 annual per millirem number. All right, I was also asked
18 to add an item, release criteria for contaminated workers
19 and equipment. Anybody want to have a discussion about
20 that? Anything they want to add?

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SCOTT HUDSON: All right. We know that there's lots of issues related to (inaudible) workers, equipment, people returning to the country. There's going to be several different things happening in this area. We'll continue to keep it on the agenda, if people want to have a discussion about it.

I have two additional items that got added.

Number 1, our environmental unit leader came in and asked me to specifically ask the question of the people on the call. Anybody in the Advisory Team. But specifically FDA, is anybody else aware of any milk data?

We're not talking about reports in the newspaper. But does anybody have actual milk sampling data that they know of. I don't know how you would have it. But I was told to ask the question.

BILL CUNNINGHAM: This is Bill Cunningham.

There may be. Those emails are handled by some people who are focusing on milk. And I kind of let those fly by, because I can't catch everything.

SCOTT HUDSON: Understood. So that's a maybe?

BILL CUNNINGHAM: Yes.

SCOTT HUDSON: All right. I can report that.

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1 Anyone else?

2 CAROL CANALIS (phonetic): This is Carol
3 Canalis, CDC, ATSCR. One thing I wanted to point out.
4 When you're looking at the I131 drinking water standards,
5 is that 3 picacuries per liter is based on dose to the
6 critical organ for a infant or a young child.

7 SCOTT HUDSON: Understood.

8 CAROL CANALIS: It's not based on a whole
9 body dose.

10 SCOTT HUDSON: But that's the --

11 CAROL CANALIS: It's very, very
12 conservative.

13 SCOTT HUDSON: -- thyroid of an infant,
14 right.

15 CAROL CANALIS: Yes. It's very
16 conservative.

17 SCOTT HUDSON: Thank you.

18 JOHN JENTZ: This is John Jentz from USDA.
19 I just wanted to let the group know that there are some
20 questions coming in about pets, both here -- Pets that
21 are here in the United States that might get contaminated
22 through the rainwater. And we're doing messaging on
23 that.

24 And there are some issues about pets and
25 working animals that are coming in from Japan. And what

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1 the release criteria and decontamination efforts should
2 be for them, and so on. And Gordon Cleveland's (phonetic)
3 working with the Association of Veterinary Medicine folks
4 to get out some good messaging on that.

5 SAM KEITH: This is Sam Keith. One of the
6 questions was about release of contaminated workers.
7 I believe there are some differences between OSHA
8 regulations and NRC regulations.

9 And I'm not sure of the extent of it all.
10 But I think there's different factors, different
11 dosimetry models. Can anybody speak to that? Because
12 I think OSHA was, at one time, working on an idea of
13 updating their regulations.

14 MALE PARTICIPANT: And the other question
15 is, with the contaminated workers, are they true rad
16 workers? Or are they members of the public in a regulatory
17 sense?

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JOHN JENTZ: I did think that OSHA used the same for workers that NRC used for that.

MALE PARTICIPANT: Yes, the (inaudible).

JOHN JENTZ: Yes. But I'm not -- I don't know.

JEFF SINSEK: This is Jeff Sinsek from OSHA. And we, our standard's the 29 CFR 1096, 19 1096. And in our regulation we actually do not have contamination levels for workers listed in our regs.

JOHN JENTZ: How about dose rates, or dose levels?

JEFF SINSEK: Yes. We have dose limits of 1.25 rem per quarter, which is based on ICRP 2. But no surface contamination requirements.

JOHN JENTZ: Good.

JIM CHERNIAK: This is Jim Cherniak in Winchester. During a conference call earlier today, we were asked for some guidance on what to do with contaminated foodstuffs in bulk quantities. Essentially something that might be imported, and sitting there and, you know refused entry. Does EPA want to weigh in on that at all?

SCOTT HUDSON: I don't know that EPA's got

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1 a position on that right now. I believe that's more
2 of a FDA perspective.

3 JIM CHERNIAK: Well we're just thinking
4 about the rad side of the house too there.
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JOHN JENTZ: Do you mean something that's been determined to be contaminated, and now needs to be disposed of or refused?

JIM CHERNIAK: Correct.

MALE PARTICIPANT: Or if it's approved, it could be decayed, if it's not perishable.

JOHN JENTZ: I know for the overall response issue that the Advisory Team deals with, that disposal of things like food and carcasses, and so forth, you know, were things that EPA, and for the carcass issue, USDA was involved in. I know there was like a small working group, Scott, on that, doing some of that work. But I don't --

SCOTT HUDSON: All right. I could certainly ask Mike if he's, Mike Morris (phonetic) he's aware of that. He's been working on the, sort of related things about the, you know, with the milk and things.

But I don't think that, I mean, it's the first time that we've gotten that sort of question here at the EOC. So that's something that, you know, we can address to, you know, some of the people, and certainly ask about. But I don't have any answers for you. Sorry.

JIM CHERNIAK: Appreciate it though. Thank

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1 you.

2 RACHEL EVANS: This is Rachel. This is
3 Rachel Evans from FDA. I think that question partly
4 relates to the situation that is happening out in Guam.

5 I think that, from what I understand, they
6 actually got a shipment in from Japan of some leather
7 goods that actually -- And again, I don't think it was
8 beta particles. I think it was alpha particles that
9 were picked up on these leather goods.

10 They swiped them. And from what I understand
11 they sent the sample to EPA in Montgomery for analysis.

12 That's what I've been told. But that raised an issue
13 for them. What should they do if they get a cargo shipment
14 that contains food stuff, and they pick up something
15 on their detectors with regards to those food items?

16 And I think, you know, we talked about that.
17 If it's something that is non perishable, maybe you
18 can let it sit there, and have the isotopes decay. But
19 what if it is something that is perishable? What are
20 they supposed to do in the interim? Because, you know,
21 a good portion of their food supply is imported. And
22 so for them, you know, it is a concern.

23 JOHN JENTZ: Well I can tell you one thing
24 that USDA is doing right now is, we're running down the
25 question. As you all may know, that there are no beef

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1 or chicken products being imported from Japan into the
2 U.S.

3 And we're just trying to determine whether
4 that's also true for Guam and the other territories.
5 So we'll have an answer. But of course, that's under
6 our authority. FDA has all the other food items.

7 SCOTT HUDSON: Any other comment on that?
8 Like I said, I can certainly make note, and kind of
9 raise awareness about that particular issue.

10 JOHN JENTZ: And I don't know if Pat Simmons
11 is still on. But when CBP -- And we haven't decided
12 I guess, I don't know, what limits we have. And if we're
13 going to refuse things that come in that are higher than
14 certain limits. Or if we're going to try to decon them.

15 I kind of, I'm really not clear on how the
16 rest of that's working necessarily. I know that Pat
17 had mentioned that he has, you know, they pull some things
18 aside for either decon or further analysis, or whatever.

19 But if it's perishable, yes, that's a
20 different story. It's going to have to be disposed of.

21 I shouldn't be a real big deal, but if it's leather,
22 then it's not, you know, not necessarily an issue.

23 SCOTT HUDSON: All right. Further
24 discussion on that? And that actually was the last agenda
25 item on there. So I'm at the bottom of my list. So if

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1 anybody else has anything they want to discuss, more
2 on this issue or something else, we can just about wrap
3 up.

4 LYNN EVANS: This is Lynn. I hate to do
5 this. But my command here is really anxious about this
6 issue. So if I could get a summary statement about what
7 is happening with the cargo and conveyance screening
8 issue?

9 My understanding, it's going to be discussed
10 at an IPC meeting tomorrow. And it's really out of the
11 Advisory Team hands at this point. And we will just
12 have to wait and see what comes out of this IPC meeting
13 tomorrow to learn if there's any more involvement from
14 the Advisory Team. Is that correct?

15 SCOTT HUDSON: As best I understand the
16 situation currently, that probably is correct. The
17 Advisory Team might be asked to weigh in on whatever
18 option gets further explored.

19 But I think the discussion earlier in the
20 day about how this has just kind of risen beyond the
21 Advisory Team, that's the best assessment. Yes, there's
22 an IPC meeting, I believe tomorrow. And this is one
23 of the items that's going to be discussed. Maybe it's
24 the only item. I'm not sure.

25 LYNN EVANS: Okay, thank you. And there

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1 was one more question here.

2 MIKE SARAP: I have a question. Mike Sarap
3 with CDC. With regards to the testing for iodine 131
4 in leafy greens, in green vegetables. Can you tell me
5 who will be doing that?

6 And if there is a (inaudible) for that?
7 Somebody recommended that if they are going to test in
8 vegetables, do it in leafy (inaudible), so leafy greens,
9 like spinach. Somebody mentioned that.

10 JOHN JENTZ: Yes, sir. This is John Jentz
11 from USDA. I asked the question. So if we do confirm
12 that there's been iodine in milk, then I think the next,
13 you know, questions will be, well what about other products,
14 and so forth.

15 And Charles Miller recommended that we do
16 the leafy greens, or leafy vegetables. And I believe,
17 FDA can chime in, that, I assume that would be the Food
18 Emergency Response Network laboratories that might do
19 that sampling. I'm not sure who would do the actual
20 field sampling. But the FERN labs would do the analysis.

21 MALE PARTICIPANT: That is correct.

22 JOHN JENTZ: So then, I'm not sure who --
23 We would work -- And would FDA do the field sampling
24 as well then?

25 ELLEN MORRISON: Can I just say -- This

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1 is Ellen Morrison from FDA. To my knowledge, and Jim
2 and others can pipe in from FDA, and Bill. We have not
3 begun any kind of sampling of leafy greens at this point.

4 Waiting for other data that would indicate that that
5 should be done in the United States.

6 JOHN JENTZ: And I'm sorry, Ellen, I didn't
7 mean to commit you to --

8 ELLEN MORRISON: No, no, no. I know, John.
9 I just wanted to clarify that at this point we're not
10 doing sampling of --

11 JOHN JENTZ: Sure.

12 ELLEN MORRISON: -- milk or leafy greens.
13 Waiting for other data that would indicate that that
14 would be necessary.

15 JOHN JENTZ: Right, right.

16 SCOTT HUDSON: Wouldn't that have to be in
17 coordination with the state ag and other folks?

18 ELLEN MORRISON: Yes. And I think the FDA
19 field operations would work with the states. And the
20 samples would come into, Jim and others could weigh in,
21 into our network of radiological laboratories, which
22 there are not as many as we would like. But that would
23 take place.

24 So the laboratories have, and Jim can chime
25 in, they have geared up. And had meetings about potential

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1 sampling. But sampling at this point is not taking place
2 of milk or leafy greens, which is not to say that it
3 might not take place later. But it's not taking place.

4 And for the import side, we do have an import
5 alert on for these types of products coming in from Japan.

6 So that they would have to be looked at, at every single
7 shipment.

8 JIM CHERNIAK: You've got it, Ellen.

9 ELLEN MORRISON: Thank you, Jim.

10 SAM KEITH: This is Sam Keith. I got another
11 one that has just come in from our radiation safety officer.

12 Apparently hospital workers going to Japan might be
13 facing situations of contamination.

14 And the question was about tissue specimens
15 or blood samples. Would they be radioactive? And would
16 there be any PPE needed? Sounds like more of universal
17 precautions than anything else.

18 ELLEN MORRISON: You know, I mean, we've
19 just sent our own folks to Japan. This is FDA. And of
20 course, there's a lot of military and expatriates, and
21 American citizens living in Japan.

22 So the recommendations coming out for
23 American citizens are based on where they are in Japan
24 right now. And that's coming out from, I think the State
25 Department, for people there. So unless the person is

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1 going into a radioactive zone, I can't --

2 SAM KEITH: In other words, if they're just
3 treating the people in the hospital, a laboratory worker
4 in the hospital.

5 ELLEN MORRISON: They're treating the people
6 who have been exposed to radiation?

7 SAM KEITH: Yes. That's generally what the
8 question's about.

9 ELLEN MORRISON: Okay. Well I think they
10 would, the universal precaution would be in place. Yes,
11 I would imagine that would be the case.

12 SAM KEITH: The questions for --

13 ELLEN MORRISON: I would defer to my CDC
14 colleagues on that one, Charles.

15 SAM KEITH: All right. Well let's let it
16 go.

17 SCOTT HUDSON: Yes, we're kind of just a
18 little bit beyond our hour there. If you'd like we can
19 kind of raise that one, we'll keep that one on for the
20 agenda for tomorrow. Maybe we can get some more discussion
21 on it.

22 SAM KEITH: All right. I'll send it to the
23 EOC.

24 SCOTT HUDSON: Easy enough. And this is
25 a reminder, anyone that wants to get an agenda item on

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1 there, please send that out today. I guess one think
2 I should have mentioned too is, we're losing Michelle,
3 as far as (inaudible) coordinate the agenda for tomorrow.

4 So if you've got items there, please send
5 them to me again, hudson.scott@epa.gov. Or again, the
6 EOC Environmental Unit Office. Otherwise, I believe
7 we're done. Thank you.

8 JOHN JENTZ: Thanks, Scott.

9 MALE PARTICIPANT: Thanks.

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JERRY FENNER: Good, good, excellent. Are there any other questions or comments out there? Any other contributions?

SKIP MANN (phonetic): Jerry, Skip Mann from IHS in Rockville, Maryland. Just two comments, if I may. In addition to the EPA website that Dan mentioned, you might want to remind folks that the www.usa.gov website is sort of a central repository. And it has many links to EPA, as well as NRC and the other federal partners who are actively engaged in this.

JERRY FENNER: Excellent point. So the usa.gov website links to all the other FDA, EPA, NRC websites, and information that are being put out there by the Federal Government. So thank you very much for that.

SKIP MANN: Yes. I believe that this all -- I'm not sure that NRC has a link on it yet. But all the others you mentioned are on there. The second comment or suggestion I might offer, and we can talk off line about this tomorrow if you have time.

It might be good to try and get a NOAA representative on for the next call. They're working at doing some mid ocean monitoring. I'm not exactly

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1 sure where they're at. I haven't heard an update.

2 But I know they were taking a look at the
3 modeling, as well as how to get out and get some real
4 time data. So it's potentially of interest to our Pacific
5 partners, in terms of what's going on in the mid ocean
6 realm.

7 JERRY FENNER: If you can give me a call,
8 and email me and connect me with those folks, I would
9 love to have them on this call. That would be excellent.

10 SKIP MANN: Yes. Check with Minton in the
11 morning. He may already have that linkage. If not, I'll
12 see what I can find out. And we'll get together tomorrow.

13 JERRY FENNER: Thank you very, very much.
14 Appreciate it. Other comments, other contributions?

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JERRY FENNER: Okay, hearing none, then we will press forward to have the same call at the same time, same day next week. And, Captain Walmsley, can you help facilitate that number again?

JOHN WALMSLEY: Yes. I'd be happy to do that.

JERRY FENNER: Thank you very much, sir. So we'll do, press forward with that. Thank you all very much for your time. And we'll continue to support your needs. And if you need anything in between now and then, feel free to reach out to us. We'll be happy to support you. And everybody have a good morning, good afternoon, and good tomorrow. Thank you.

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(CONFERENCE CALL INITIATED)

JERRY FENNER: Hello, everybody, this is Jerry Fenner from U.S. Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response.

We're going to get started here in a few minutes. I want to check to see if we have, who we have on the line. Do we have Hawaii on the line? No. American Samoa?

VINCE (phonetic): Hey, Jerry. This is Vince.

JERRY FENNER: Hey, Vince. Do we --

FEMALE PARTICIPANT: (Inaudible). American Samoa.

JERRY FENNER: American Samoa, hello. Do we have RMI on the line? CNMI?

JOE VILLAGOMEZ: Hi, Jerry. This is Joe Villagomez.

JERRY FENNER: Hello, Joseph. How are you today?

JOE VILLAGOMEZ: Fine, thank you.

JERRY FENNER: Do we have Guam on the line? Guam? No, Guam, okay. Palau?

JANICE: This is Janice. I talked with Palau

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1 earlier today. And they said they would not be able
2 to be on the call.

3 JERRY FENNER: Okay. Thank you, Janice.
4 FSM, are you on the line? I did receive an email from
5 FSMtoday. So I did expect them to be on. And the Operator
6 is reaching out to them also to connect them. Did we
7 get Guam to join yet?

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JERRY FENNER: Captain Sheehan (phonetic),
are you on the line?

CAPTAIN SHEEHAN: Yes, Jerry, I'm on.

JERRY FENNER: Hey, Kevin. Let me think.
So did Hawaii join in?

KATE GAYNOR: Hey, Jerry, it's Kate Gaynor
in Hawaii.

JERRY FENNER: Hey, Kate, how are you today?

KATE GAYNOR: Good. How are you?

JERRY FENNER: Good, thank you.

KATHY WASSUM (phonetic): Jerry, Kathy
Wassum, hi.

JERRY FENNER: I'm sorry, say that again?

KATHY WASSUM: Oh, it's Kathy Wassum, Region
IX, in Hawaii.

JERRY FENNER: Hi, Kathy.

JOHN WALMSLEY: Hi, Jerry. John Walmsley
is on the call as well.

JERRY FENNER: Hi, John. Thanks for
joining.

JOHN WALMSLEY: You bet.

NADINE SIMON (phonetic): Nadine Simon's
here too.

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1 JERRY FENNER: Hi, Nadine. Thank you again.
2 Have we had RMI or FSM join? No?
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JERRY FENNER: Okay. I have a couple of minutes after. We'll go ahead and get started. And if the other folks join, we'll press forward.

So we'll start, as we did in the last two calls. And we will go through a quick federal update.

And then we'll go to each of the islands, and get updates from them. And then we'll go to our international partners, then to our headquarters in Atlanta and Washington, D.C.

Do we have Minton? Are you on the line? Okay, no. It sounds like we might have less people on this call than we had on previous ones. So we'll go ahead and get started. NRC, are you on the line?

BILL MAIER: Yes, I am, Jerry.

JERRY FENNER: Okay, thank you. Could you give us an update, please?

BILL MAIER: Certainly. This is Bill Maier from the Nuclear Regulatory Commission, Region IV Office in Arlington, Texas, giving the NRC update. The NRC continues to conduct the 24/7 response from our Emergency Operations Center in Rockville, Maryland.

The NRC's role continues to (inaudible) technical assessment, providing advice to the Japanese responders, and evaluation of the close in radiological

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1 hazard in the immediate area of the plant. NRC is
2 coordinating with the Department of Energy assets for
3 performing this task.

4 We are also coordinating with Department
5 of Energy and Environmental Protection Agency on the
6 assessment of consequences for the American states and
7 territories. And I'll let EPA state what the status
8 of that is.

9 Recently another task that we've assumed
10 is to coordinate with the American Nuclear Industry to
11 ensure an orderly movement of material and expertise
12 from the United States nuclear power plant operators
13 to the needed requests the responders have asked for.

14 There is still a team of about 11 advisors
15 from the Nuclear Regulatory Commission embedded with
16 both the Japanese Government and the American Embassy,
17 providing technical advice and assessment.

18 The NRC's protective action recommendation
19 from (inaudible) and citizens remains in effect. That
20 recommendation being for American citizens to evacuate
21 to beyond 50 miles from the plant. That hasn't changed
22 yet.

23 And not related to the response, but related
24 to public messaging, the NRC has embarked on its systematic
25 review of power plant safety here in the United States,

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1 in light of what had occurred in Japan at the Fukushima
2 Daiichi Power Plant.

3 That process is underway with an information
4 notice that we've sent to the power plant operators in
5 the United States, expecting them to look at their plants,
6 to evaluate susceptibilities or vulnerabilities to
7 similar type events. And to consider strategies for
8 dealing with it.

9 And the second part of that review is an
10 inspection procedure that our resident inspectors at
11 the power plants, and other inspectors, will embark on
12 to monitor those efforts by the power plant operators
13 to evaluate and assess their plants, and report back
14 in publicly available inspection reports. And that
15 concludes my brief.

16 JERRY FENNER: Thank you very much, Bill.

17 So we'll go on to EPA. Do we have anybody from EPA
18 on the line? Okay. I spoke to EPA a short time ago.

19 And they said they would have difficulty getting somebody
20 on the line. So I just wanted to check before I pushed
21 forward.

22 They said that they're monitoring within
23 the United States. And Arizona, Colorado, Pennsylvania,
24 have all seen hits for positive radiation above
25 background.

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1 For the Pacific, they said within Hawaii,
2 CNMI and Guam, that they have also received hits above
3 background. But they are all very, very low levels.
4 And the order of magnitude is in the thousandths below
5 their action levels.

6 They also wanted to make note that the
7 sampling that they're doing on Guam and CNMI is air sampling
8 only. And that in Hawaii they do a routine sampling
9 for milk products, drinking water and rainwater,
10 precipitation.

11 And so those are -- In the Pacific the
12 sampling occurs different in Hawaii than it does the
13 other locations. They did take a rainwater sample in
14 CNMI when they had an individual out there. And the
15 results from those samples will be back in a few days.

16 They said, as far as the sampling that has
17 occurred, the samples that have been in Alaska have been
18 the highest that they have received. But they still
19 are below action levels.

20 They did have a positive hit for iodine,
21 I believe it's 113, in milk products, dairy and milk,
22 up in Spokane, Washington. And it was 5,000 times lower
23 than their intervention levels for the U.S. So they
24 did do a press release. And it is on their website.

25 And I don't know if we have, if FDA wants

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1 to add comments to that, if we get down to FDA later
2 in this call. That's all I received from EPA. And we
3 did receive a request from FSM for sampling equipment.

4 And we did forward that to the EPA for that assistance.

5 And so having said that, that's the report
6 I received from the EPA. I will go on to the Department
7 of Energy. So we have, Sarah (phonetic), are you on
8 the line?
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(CONFERENCE CALL INITIATED)

JERRY FENNER: Okay, hearing none, any questions for the federal partners before I move on to the islands? Okay. So I'm going to go to the islands in the same sequence that we have for the last couple of weeks. So I would like to start with Hawaii. Can you give us an update, please?

KATE GAYNOR: Sure. Hi, this is Kate Gaynor in Hawaii.

JERRY FENNER: Hi, Kate.

KATE GAYNOR: So it's been a pretty quiet week in terms of interesting radiation here. Much more interest in potential dengue. We had a couple of cases of, well not yet laboratory confirmed by CDC, but confirmed by a commercial lab on the mainland, with compatible symptoms.

So that's gotten a lot of attention in the press. And people are, of course, very concerned. Our last outbreak in Hawaii of dengue was 2001. So we're trying to figure out if we have a problem now or not.

But as was already mentioned, with the EPA update, our RadNet monitors here have picked up trace radiation compatible with having come from Japan. And the questions have really died down.

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1 We have people calling either our raidation
2 program or our 211 phone number, or sometimes the Rocky
3 Mountain Poison Control Center, which serves as Hawaii's
4 poison control center. And there's been just a handful
5 of calls. And I think the poison control center said
6 they got maybe six. And 211 got just a few.

7 And our radiation program has been fielding
8 more technical questions, probably about 30 a day, they
9 estimate. Al Braunstein (phonetic) from Rocky Mountain
10 Control Center was actually here in Hawaii yesterday.

11 And talked a little bit about the role that the poison
12 control center has been playing in the CDC protocol.

13 The protocol the CDC and CBP are developing
14 for the screening of travelers. And the first point
15 of contact for more information on the handout that a
16 traveler would get, if they had a test that showed that
17 they had some radiation on them, the first point of contact
18 is to call the poison control centers. So they've been
19 very involved in providing information.

20 The protocols, as I mentioned, were up.
21 But there's still sort of some details to be worked out
22 at the jurisdictional level. It remained unclear on
23 the call, I think it was Tuesday morning, Monday morning,
24 whenever it was, the last call about the protocols.

25 It was unclear as to whether there were going

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1 to be two phone calls from the port to the Department
2 of Health. CBP would be reporting if they had a higher
3 level of radiation detected.

4 And then CDC, quarantine station, would also
5 be calling. Because apparently there is a problem where
6 CBP is not allowed to pass on what they found, in terms
7 of the isotope and the level, and the actual contact
8 information of the passenger. So CDC would have to be
9 used as sort of a middle man in that scenario, to pass
10 on the actual details to the state or the jurisdiction.

11 Water and milk sampling was also mentioned.

12 We are on a usual quarterly sampling schedule. That
13 has not been increased, as far as I know. But it just
14 so happens that we just sent off our water sample, our
15 regularly scheduled quarterly water sample, just a couple
16 of days ago.

17 So if anybody asks, we're able to say, we
18 just sent in a water sample. So as far as I know, we
19 have not had any milk results recently for Hawaii, or
20 any results back from that water sample. And that's
21 about it.

22 JERRY FENNER: Okay. Thank you very much,
23 Kate. I'd like to move on to American Samoa. Can we
24 get an update.

25 FEMALE PARTICIPANT: Ben, go ahead and give

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1 the update for American Samoa, please.

2 BEN: Okay. (Inaudible) everybody. As for
3 American Samoa's updates, we're putting out regular public
4 service announcements on the newspaper and media ads.
5 We have our doctors, they go on TV, and then they report
6 to the public on what radiation is, and the like. And
7 how it affects people.

8 And they pretty much advised everybody that,
9 you know, we're not in any threat, or any way of getting
10 radiation on this side. But we are still closely
11 monitoring what Honolulu is doing, and what the other
12 regions are doing. So that's pretty much it on this
13 end.

14 JERRY FENNER: Excellent. Thank you very
15 much, Ben.

16 BEN: Thank you.

17 JERRY FENNER: Can we go to RMI next? Okay,
18 hearing none, we'll go to FSM. FSM, I haven't received
19 any emails from them as we are on the call. So I'm
20 suspecting that they were not connected to the call.

21 And as I mentioned earlier, they are seeking
22 assistance from the EPA in some monitoring equipment.

23 So we are moving that request forward. So I would like
24 to go next to CNMI.

25 JOE VILLAGOMEZ: Hi, Jerry, this is Joe

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1 Villagomez, from the Department of Public Health. It's
2 also been fairly quiet in the Commonwealth this past
3 week.

4 Although we continue to closely monitor the
5 situation. Probably paying closer attention to the
6 possibility, of any, of seepage into the seawater
7 surrounding the nuclear site. Because of, obviously,
8 our proximity to Japan, and what's going on there.

9 And trying to understand how some of this
10 radioactive stuff behaves in seawater. And the potential
11 fish migrating down this way. So that's been, you know,
12 one of the things we're looking at.

13 But in terms of just public awareness and
14 concern, we continue to let the public know that, you
15 know, it's safe. That we do not have any levels of
16 radiation that is above, just the background noise kind
17 of stuff. So we continue to closely monitor that.

18 And the task force continues to also work
19 in identifying all imported food that comes out of Japan,
20 who are the vendors here, and what kind of food is being
21 brought in.

22 And kind of put that up against the FDA listing
23 of stuff that comes out from, especially around the areas
24 that were affected by the tsunami and the radiation area.

25 So pretty much that's it that's happening here in the

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1 Commonwealth for this week.

2 JERRY FENNER: Thank you very much, Joe.
3 I appreciate it. Do we have anybody from Guam on the
4 line?

5 MALE PARTICIPANT: Yes. This is (Inaudible)
6 the Emergency Preparedness Manager. I also have Mary
7 Lou (phonetic), from environmental health, and also
8 Lieutenant Suryano from Guam Customs. If we get cut
9 off, just bear with us. We've been cut off twice already
10 over the last 20 minutes of the telephone call.

11 JERRY FENNER: Thank you.

12 MALE PARTICIPANT: A note from Guam, very
13 quickly. The Guam Customs and Quarantine, with
14 assistance from the Guam National Guard Civil Support
15 Team, they are still doing screening imports coming from
16 Japan by sea and air.

17 For the past week there were no radiological
18 hits on their routine screening of passengers and cargo.
19 Yesterday, Guam Air National Guard conducted training
20 on the fundamentals of radiation and basic radiological
21 screening.

22 This training was conducted to familiarize
23 operators with radiological hazards, how to operate
24 equipment, conduct a survey, and what to do if you find
25 something. There were about 35 participants from Customs

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1 and Environmental Health of Public Health.

2 Customs reported on previous meetings that
3 they don't have any equipment or device to screen surface
4 radiological contamination. But actually they do have
5 two sets for screening, survey meters. And these devices
6 were used yesterday during hands on training, for Customs
7 to familiarize themselves. That is the report from Guam.

8 JERRY FENNER: Okay. Thank you very much.
9 Now I did see a request for survey equipment that came
10 up. And I know it came up through, I think, both FDA
11 and through FEMA. So I don't know the status of those,
12 because they aren't being processed through our office.

13 MALE PARTICIPANT: Right.

14 JERRY FENNER: But I did see the request.

15 MALE PARTICIPANT: Yes, that was sent out
16 yesterday.

17 JERRY FENNER: Okay. Okay, good.

18 MALE PARTICIPANT: Thank you.

19 JERRY FENNER: Thank you. So they are being
20 worked. And I know Janice in Palau is not on. So I will
21 go on to --

22 JANICE: I'm sorry. We're right here.

23 JERRY FENNER: Oh, you are here. Okay. So
24 Palau -- Oh, thank you.

25 JANICE: I'm sorry. Got an email earlier

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1 from (inaudible), saying -- But that's okay. I'm glad
2 that you're on.

3 FEMALE PARTICIPANT: (Inaudible) is not here.

4 But I'm here with our chief of medical staff, Dr. Morla
5 (phonetic).

6 JERRY FENNER: Thank you. Okay, thank you
7 very much for joining us. Could you give us an updated,
8 please?

9 FEMALE PARTICIPANT: Well, I guess, like
10 everyone else, we don't have anything new. We continue
11 with our public education. But the public isn't asking
12 as many questions as we would like. So I guess we just
13 stand by waiting for other recommendations that trickle
14 down from federal.

15 JERRY FENNER: Okay. Okay, thank you very
16 much. Thank you. And thank you for joining the call.
17 Okay, one last call for RMI or FSM before I move on.
18 Okay, hearing none, I will now turn to our international
19 partners. Do we have WHO on the line?

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JERRY FENNER: Okay, hearing none, I will move on then to, I will go to our headquarters, the headquarters for CDC in Atlanta, and (inaudible) Washington, D.C.

And then I'll come back to the RHA's office and my partners in ASPER, to see if they have any final comments. So having said that, has any -- I know we did hear from Todd in CDC in Atlanta. And, Janice, is there any other comments from Atlanta that you'd like to contribute to the discussion?

BARBARA COOPER: Hey, Jerry, this is Barbara Cooper from the S&S program.

JERRY FENNER: Hi, Barbara.

BARBARA COOPER: Hey, Jerry. I don't have any updates to discuss. Standing by listening to the comments.

JERRY FENNER: Okay. Thank you very much. I appreciate you for joining. Okay. So we'll move from Atlanta to Washington, DC. Do we have anybody from ASPER, Minton, or anybody else from our headquarters that would like to contribute?

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JERRY FENNER: Okay. Hearing none, I'll turn back to the RHA's office, Captain Simon, Nadine, or John Walmsley, do you have comments you'd like to provide?

NADINE SIMON: Thank you, Jerry. I have nothing. Does John or Kathy have anything to add?

JOHN WALMSLEY: Hi, this is John. And I just wanted to make sure that the people on this call in the Pacific knew about the FDA calls. It might be different groups of people on today's call and the FDA calls.

But I just wanted to make sure they knew about them. The FDA calls are now on Mondays and Thursdays on the mainland, which translates to Tuesdays and Fridays on the other side of the date line. And those are being led by the FDA. That's all I have.

JERRY FENNER: Thank you very much, John.

FEMALE PARTICIPANT: And I don't have anything. Thank you.

JERRY FENNER: Thank you. Thank you very much. So do we have Captain Sheehan, Captain Brice, any comments you'd like to add?

CAPTAIN SHEEHAN: No, Jerry, no comments.

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1 Just make sure we meet the needs of our Pacific partners.

2 And thank you for putting this together. Thanks.

3 JERRY FENNER: Excellent. Thank you, Kevin.

4 Okay. Well thank you, everybody. That is our call.

5 And we finished a lot quicker than we have in the two
6 previous calls. So I appreciate everybody's time.

7 The question I have for all of you that did
8 join the call is, with the other calls and information
9 flowing, and with the number of activities, it sounds
10 like decreasing, is this call of value to continue again
11 next week? Or do we want to terminate the call, and
12 pick it back up if the events warrant? So that's kind
13 of two questions.

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PATRICK (phonetic): This is Patrick from Guam. I think we want to continue it. Only because there's still activity in Japan and with the reactors. Especially with the, you know, the radioactive water. So I think from our standpoint, we'd like to continue the calls.

JERRY FENNER: Okay, thank you.

DARRYL AMES (phonetic): Hey, Jerry, this is Darryl Ames, Homeland Defense in Honolulu. We've been here for all three calls. And we would like to continue.

JERRY FENNER: Okay. Thank you, Darryl. Anybody else? So we're two fors, any against?

BEN: Yes, Jerry, this is Ben, American Samoa. Yes, we'd like to continue the calls. Maybe until we're out of the hot zone on that side, especially with Guam in the active area. Also, could you please forward me that information from the FDA call, please?

JERRY FENNER: I will, yes, I'll send it to you, Ben.

BEN: Thanks, Jerry.

JOE VILLAGOMEZ: Jerry, this is Joe, CNMI. Yes, the call can, you know, it's still important for

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1 us. My thought is that next week we're going to be in
2 Palau for the PIHOA meeting.

3 And I know, I think we're trying to put
4 something together for some of the Pacific Island
5 jurisdictions that have not been able to participate
6 in this phone call.

7 So if, definitely not me, but a member of
8 our task force will be attending next week's conference
9 call, since we will be in Palau for that PIHOA meeting.

10 JERRY FENNER: Okay. Thank you. That is
11 a good point. And I am participating in that conversation
12 next week. So we will be supporting that. It will be
13 a different structure than we have now. But thank you
14 very much for that.

15 Okay, other than that, it sounds like you
16 want to continue. So we'll continue the call. And if
17 we finish short, we'll finish short. And we'll continue
18 to press forward. Same time, and I suspect it will be
19 the same phone number for next week. I'll have one last
20 call for questions or comments before we get off the
21 line.

22 DOUG COE: Jerry, this is Doug Coe at the
23 NRC Operations Center in Maryland. I just have one
24 question. The emergency directors in the states also
25 convene on a conference call, I believe, where they

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1 communicate regularly.

2 And the feedback that I'm getting here is
3 that they haven't been getting a lot of information of
4 the nature of the kind that you are passing on this call,
5 and on the calls with the state, the mainland states.

6 So I'm wondering if I could just suggest --

7 I know FEMA wasn't on the call today. But
8 that there might be an effort to reach out to FEMA to
9 let them know that the emergency directors in the states
10 might be, might value having this input.

11 Either from their, you know, either from
12 their health directors, or some other folks that are
13 on this call. So that was just a suggestion. And if
14 it's, you know, if it makes sense to you.

15 JERRY FENNER: No. And thank you very much,
16 Doug. And we have had Marilyn from the Pacific Area
17 Office of FEMA has been on the call the last two times.
18 And thank you.

19 And the other thing is, there is -- Doug,
20 I don't know if you're aware that there is a twice a
21 week ASPER/ASTO sponsored call for the 50 states. And
22 so those are going on every, I believe it's Tuesday and
23 Thursday.

24 DOUG COE: Yes.

25 JERRY FENNER: If I remember correctly, yes.

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1 Okay.

2 DOUG COE: No, I was aware of those, of the
3 routine calls. It just seems like the information isn't
4 getting to all of the emergency directors. That was
5 the only suggestion, that --

6 JERRY FENNER: Okay, good.

7 DOUG COE: -- they be advised. That they
8 should reach out, perhaps to some of the other elements
9 in their organization that are participating on these
10 calls, to get the information they might be needing.

11 JERRY FENNER: Thank you, Doug. We will
12 make sure we reach out to our FEMA partners. And make
13 sure they have access to the information. Thank you
14 for the suggestion.

15 DAN MEIER: Hey, Jerry, this is Dan Meier,
16 USEPA.

17 JERRY FENNER: Hey, Dan.

18 DAN MEIER: I'm not sure if you've already
19 done this. But we are posting a lot of information to
20 the EPA.gov/japan2011 website. And you might just want
21 to remind people on your group list about that website.
22 All the latest updates, the daily status summary.
23 There's lots of information on there.

24 And actually I just had the answer to a
25 question that I was asked today, that's posted on there.

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1 The question is, we're getting levels of radioactive
2 iodine that exceed the maximum contaminant limits for
3 drinking water. And why is that? And why shouldn't we
4 be worried?

5 And the answer is, that the mcl is based
6 on a 70 year exposure, long term chronic exposure. So
7 of course that number is going to be quite a bit different
8 from a short term exposure of very low level, like what
9 we're seeing. But it's just an example of some of the
10 information on there that's useful, I think.

11 JERRY FENNER: Excellent, excellent point,
12 Dan. Thank you very much.

13 FEMALE PARTICIPANT: Can you repeat that
14 website again, please?

15 DAN MEIER: That's www.epa.gov/japan2011.

16 FEMALE PARTICIPANT: Thank you.
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(CONFERENCE CALL INITIATED)

JOHN: Yes, hello. This is John (inaudible) with FDA's Division of Import Operations and Policy. I'm not sure if anyone else from FDA is on this call.

JERRY FENNER: Hi, John. Can you give us an update?

JOHN: Yes, if you could do me a favor? I'm a little new to these calls. These are weekly, correct?

JERRY FENNER: These are every Wednesday, correct.

JOHN: All right. I can give you an update from last Wednesday then.

JERRY FENNER: Okay.

JOHN: Since last Wednesday it would have been reported out that FDA had issued a import alert specifying potential physical examination of certain products from certain prefectures in Japan. That remains in place.

The latest (inaudible) that we have, we don't show that we received any of those particular products from those prefectures. But we do have any products currently in detention, based upon that.

We also have an increased surveillance of FDA regulated products being imported to the United States,

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1 from Japan. Specific increased surveillance for, again,
2 products from the four prefectures. But also from the
3 entire country.

4 To date we have not seen, or have any record
5 of any FDA regulated products that would be considered
6 violated in any way. But we continue with our activities.

7 And the last numbers I saw indicated the
8 agency had conducted about 600 examinations of products,
9 using, you know, our radiation screening pagers, with
10 no adverse findings on that. It's a little early for
11 results to have come in from any samples that we have
12 collected.

13 But we can also report out that we have not
14 had any samples come back with any levels of radiation.
15 We'll continue our increased surveillance, and adjust
16 it if and when any circumstances warrant. And that would
17 be the FDA update.

18 JERRY FENNER: Thank you very much, John.

19 Do we have any questions?

20 DAN MEIER: Hey, Jerry, this is Dan Meier,
21 with USEPA. I just jumped on.

22 JERRY FENNER: Oh, hi, Dan. How are you?

23 I gave just a brief, as far as what I knew, as far as
24 some of the hits that you guys have had. Did you want
25 to give us an update?

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1 DAN MEIER: Sure. Let's see. As far as I
2 know, all of our monitors are up and running on the islands.

3 On the mainland, 119 of the 124 are operational. All
4 of the results of precipitations are showing non detect.

5 We have two milk samples that have been
6 analyzed. One from Spokane, Washington, one from Des
7 Moines, Iowa. The Spokane sample showed very trace amount
8 of radioactive iodine. The Des Moines sample was non
9 detect. And so status of the RadNet monitoring is
10 essentially unchanged. No levels being detected that
11 are of any health concern.

12 JERRY FENNER: Okay. Excellent, Dan. Do
13 we have any questions for the FDA, EPA, or NRC?

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(CONFERENCE CALL INITIATED)

JERRY FENNER: Hearing none, thank you very much for calling in, Dan. Do we have anybody from USDA on the line?

TODD SMITH: Yes, Jerry, this is Todd Smith, ESF11. How are you?

JERRY FENNER: Good, Todd. How are you today?

TODD SMITH: Very good. Just talking back with our folks back at my western region and headquarters. There's nothing new to report, other than the standard comments about coordinating with FDA and EPA on the safety of products, agricultural resources, should an embargo be in effect.

And many of the programs that USDA has would be eligible for folks. Again, that's a qualifier of so far that you've reported, and anybody else. It's well below the minimums.

JERRY FENNER: Okay.

TODD SMITH: And that's all I have.

JERRY FENNER: Thank you very much, Todd. Any questions for Todd, for USDA? Hearing none, do we have CDC on the line? From the Pacific, do we have Bill or Vicki? No? And then Janice, did you have anything

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1 you wanted to add?

2 JANICE: Jerry, no. I didn't have anything
3 to add. I know CDC released Sunday, some revised
4 recommendations. And that's available on their website.
5 But I'm not aware of any other big new news that affects
6 the Pacific Islands.

7 JERRY FENNER: Okay. Thank you very much.

8 JANICE: You're welcome.

9 TODD DELBERT (phonetic): Jerry, this is
10 Todd Delbert.

11 JERRY FENNER: Hey, Todd, how are you doing?

12 TODD DELBERT: Good, how are you. This is
13 Todd Delbert from the CDC. And we don't have any specific
14 updates for the Pacific Islands, as Janice said.

15 And just to clarify, with the passenger
16 screening guidance, that has gone into effect. And just
17 to clarify for everybody, it was vetted, with input from
18 some of the partner organizations, such as ASTO and NACHO
19 (phonetic), and et cetera.

20 And there are some frequently asked questions
21 that I believe have been posted on the CDC website, which
22 also may be available at usa.gov. But they're for sure
23 on the CDC website. And that would be a place to look.

24 JERRY FENNER: Thank you very much, Todd.
25 We appreciate that. And I had received an email earlier

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1 from Department of Energy, related to modeling. We had
2 some questions related to modeling last week.

3 And I don't know if you've all seen the
4 EPA.gov/Japan2011. And I understand that there's models
5 that are out there? Dan, can you comment on any of those
6 models that are out on your website?

7 DAN MEIER: I really am not in a position
8 to do that.

9 JERRY FENNER: Okay.

10 DAN MEIER: You mean team modeling? I'm
11 not even sure the modeling that you're referring to.

12 JERRY FENNER: I have not seen them. But
13 Sarah, from the Department of Energy, forwarded that
14 website and said that there was model data out there
15 that people could access. Okay. Thank you.

16 DAN MEIER: Sure.

17 JERRY FENNER: Sure. We'll go on to FEMA.
18 Do we have anybody from the Pacific Area Office on?
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