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EX/1

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI  
PMT RAAD ASST DIRECTOR AUDIO FILES

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FRIDAY,  
MARCH 11, 2011

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1  
2 (CONFERENCE CALL INITIATED)

3 LOU (PHONETIC): Hello, it's Lou (phonetic).

4 GREG CASTO: Hey Lou, it's Greg Casto. How  
5 are you doing?

6 LOU: Doing pretty good.

7 GREG CASTO: Well, I hope I don't change  
8 that for you. I'm in the Ops Center and we're going  
9 to do a call out, a partial call out of the PMT to address  
10 what's going on in Japan.

11 LOU: Okay.

12 GREG CASTO: And I'm calling you first  
13 because I want to pick your brain. What we're looking  
14 for is a coordinator, a PAD, a RAAD, and a RASCAL. So  
15 I'll stay, I'm here, and I'll stay --

16 LOU: As the PAD?

17 GREG CASTO: As the PAD. I was going to  
18 call you as one of the coordinators and Steve Lavie as  
19 the RAAD. And for this shift, and then Bruce Watson  
20 as the second shift RAAD and Kevin Williams as the second  
21 shift PAD.

22 LOU: Okay.

23 GREG CASTO: If that makes sense. And then  
24 what I was going to ask were, who are the two best RASCAL  
25 people to call out, and who is the best second shift

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1 coordinator to call out?

2 LOU: Okay. For RASCAL, (b)(6)

3 (b)(6)

4 GREG CASTO: Okay. I'll call (b)(6)

5 LOU: And then we have a fair number of new  
6 guys, depending on who is available. (b)(6)

7 (b)(6)

8  
9 GREG CASTO: Okay, (b)(6) okay.

10 LOU: (b)(6) and.

11 GREG CASTO: Who else would you recommend  
12 as another? As an alternate?

13 LOU: And then another could be (b)(6)

14 (b)(6)

15  
16 GREG CASTO: Okay, (b)(6)

17 LOU: (b)(6)

18 (b)(6)

19 GREG CASTO: Okay. (b)(6) on the  
20 roster, I guess. Okay. (b)(6) Primarily  
21 what we're looking at would be what if a, we're having  
22 a pretty difficult time getting information.

23 LOU: I can imagine.

24 GREG CASTO: And even working directly with  
25 the Japanese, (b)(6) So

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1 we're getting it from various sources and we just, Eric  
2 and Tony also are meeting with the Chairman now to give  
3 him a briefing. We just put together a little briefing  
4 package for them. So anyway, that's probably the extent  
5 of what we'll be doing here, but --

6 LOU: It sounded like from the news, there  
7 was some little controlled release to (inaudible), is  
8 that correct?

9 GREG CASTO: There could be. It's possible  
10 based on what we can figure is going on. They basically  
11 have a station blackout at 2 Unit. And each unit is  
12 a little different.

13 So for 1 Unit there's a concern, and it's  
14 a six-unit site and from what we can understand, they  
15 cannot get any type of power to either of those two units.

16 So they were on batteries and at some period  
17 of time, they lose batteries and so then they're just,  
18 you know, they're on their own. But each of the units,  
19 even though they're both BWRs, are different. They're  
20 different designs and they have different, you know,  
21 accident challenges. So we're not really sure.

22 I mean, we're watching CNN, too, and we kind  
23 of saw that there were increased radiation levels and  
24 there was a press release that was talking about doing  
25 a controlled depressurization. And so we're trying to

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1 make some sense of it.

2 But we're not really sure, tell you the truth.

3 LOU: Okay.

4 GREG CASTO: So what the plan is, is to bring  
5 a shift in, a group of people in now, so I was going  
6 to call you. Oh, and who would be another coordinator?

7 LOU: Oh, be back up for a coordinator.

8 GREG CASTO: Yes, who would be?

9 LOU: There are four of us only available.

10 Arlon Costa.

11 GREG CASTO: Arlon? Okay.

12 LOU: Prosanta Chowdhury. (Inaudible) is  
13 that one.

14 GREG CASTO: Got you. Okay. Who would be  
15 good, you know, to pull up information and be creative  
16 on how we can do different things? You know everything  
17 about everything. So who'd be your best back up?

18 LOU: Who'd be my choice out of those guys?

19 GREG CASTO: Yes.

20 LOU: Probably (b)(6)

21 GREG CASTO: Got you. Okay, I'll call them.

22 Okay. All right. So, oh, go ahead. I'm sorry?

23 LOU: (b)(6)

24 (b)(6)

25

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1 GREG CASTO: Okay, so would you prefer second  
2 shift, and I'll call (b)(6) in now?

3 LOU: What time's second shift going to  
4 start?

5 GREG CASTO: 11 PM.

6 LOU: 11 PM?

7 GREG CASTO: Yes.

8 LOU: I don't mind doing second shift. It  
9 might take some pressure off (b)(6) But I can sign the  
10 papers tomorrow.

11 GREG CASTO: Well, if you want to handle  
12 them today, then I could call (b)(6) in now and you could  
13 come in at 11:00 o'clock.

14 LOU: Yes, then 11:00 to?

15 GREG CASTO: 11:00 to 11:00.

16 LOU: To 11:00? We'll be the next shift?

17 GREG CASTO: Yes. And then we'll just come  
18 back in and relieve you.

19 LOU: Okay.

20 GREG CASTO: Okay?

21 LOU: See if you can get a hold of him.  
22 If you can't, then I'll come in right now.

23 GREG CASTO: Okay. I'll call him and then  
24 I'll let you know.

25 LOU: Okay.

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1 GREG CASTO: Okay. The other options sound  
2 good? I looked through the list, and I think those look  
3 like probably the best people. (b)(6)

4 (b)(6) (inaudible).

5 LOU: Okay. If you want me to come in right  
6 now, it's really no big deal on these papers.

7 GREG CASTO: Well.

8 LOU: (Inaudible) kicking it off and getting  
9 the ball rolling.

10 GREG CASTO: No, that's fine. You never  
11 know when you're going to get them back again, so.

12 LOU: All right.

13 GREG CASTO: All right. Go ahead and do  
14 that. I'll call (b)(6)

15 LOU: Okay, and unless I hear otherwise,  
16 I'll plan to be there at 11:00 o'clock.

17 GREG CASTO: Okay. All right, thanks a lot.

18 LOU: All right, Greg. Good talking to you.

19 GREG CASTO: All right, we'll see you.

20 LOU: All right, bye.  
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23  
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(CONFERENCE CALL INITIATED)

OPERATOR: The party you are trying to reach is not available to take your call. Please leave a message after the tone. Press the pound key to end recording.

GREG CASTO: Arlon, this is Greg Casto. Please call me on my cell, which is (b)(6) or call into the Ops Center. We are doing a call out for the PMT in response to the Japanese earthquake and problems with their nuclear power plants.

And I have you for the PMT coordinator position for this evening until 11:00 AM. So if you could call me back, I'll give you details. Thank you.  
Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 OPERATOR: Your call has been forwarded to  
4 an automated voice messaging system.

5 STEVE LAVIE: Steve Lavie.

6 OPERATOR: Is not available. At the tone,  
7 please record your message. When you've finished  
8 recording, you may hang up or press one for more options.  
9 To leave a call back number, press five.

10 GREG CASTO: Steve, this is Greg Casto, and  
11 I'm calling for an official reason. We're doing a limited  
12 staffing of the PMT in response to the earthquake and  
13 nuclear plant problems in Japan. So if you could call  
14 me back at my cell phone, (b)(6) or call into  
15 the Ops Center, I can give you the details on what's  
16 going on and what our shifts will be. Appreciate it.  
17 Thanks a lot. Bye.

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(CONFERENCE CALL INITIATED)

OPERATOR: Welcome to the TeleVantage conference -- there are currently two people in the conference. Please hold while we connect you.

GREG CASTO: Greg Casto, NRC.

OPERATOR: Thank you.

GREG CASTO: Hello?

JOHN NAASTROM: Dan, are they supposed to dial in, though?

DAN BLUMENTHAL: They're supposed to dial in, but they haven't dialed in and I can't reach them on the phone.

GREG CASTO: This is Greg Casto, NRC.

DAN BLUMENTHAL: Oh, hey Greg, perfect. So I have John Naastrom from NARAC on the line, and this is Dan Blumenthal in DoE with their Incident team.

GREG CASTO: Okay. And I'm by myself.

DAN BLUMENTHAL: So John, why don't you summarize what you've done so far, and what still we would want, (inaudible) wise and then you can also summarize what information, you know, has been sent and gathered from the IAEA and stuff like that.

JOHN NAASTROM: Yes, so, so far, we don't have any, as far as we know, there's a planned venting,

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1 but as far as we know, there's been no actual venting  
2 yet, is that everyone else's understanding?

3 GREG CASTO: Yes. On our end, that's what  
4 we understand as well.

5 JOHN NAASTROM: Okay. And so I think we're  
6 all talking about the Fukushima Unit 1. So we have done  
7 wind atlases and some just generic plume forecasts just  
8 to get an idea where the plume could go.

9 So our latest, we do have an updated, we  
10 ran a high resolution weather forecast model for around,  
11 over Japan. So we do have data, a fairly high resolution  
12 weather analysis and forecast data available to do plume  
13 predictions with.

14 You know, we don't have a lot of information  
15 on the reactor itself.

16 GREG CASTO: Right.

17 JOHN NAASTROM: (Inaudible) back there and  
18 I think he can kind of quickly, the little we do now.

19 MALE PARTICIPANT: Basic (inaudible) on  
20 Wikipedia, the (inaudible) 60 megawatt burning water  
21 reactor, a GE reactor built in 1971, so that's about  
22 it, yes. (Inaudible).

23 GREG CASTO: Okay. We've got a little bit  
24 of information on that. Unit 1 is, we believe, a Hybrid  
25 Mark II-3 reactor. And it has, hold on one second here,

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1 it is not a RCIC plant. Unit 2 is a RCIC plant. But  
2 Unit 1 is a, well, I'll get my information. I'm sorry.

3 Unit 1 is a different plant, a different  
4 design. Hold on one second, let me get that information  
5 and I'll talk with Baxter (phonetic). Hold on.

6 Okay, I'm back, sorry about that. Unit 1  
7 is an Isolation Condenser Plant. And so they have a  
8 means of containment cooling probably available to them.

9 Now Unit 2 is a RCIC plant, a Reactor Core Isolation  
10 Cooling plant.

11 And they need power or batteries to maintain  
12 any type of cooling. And it appears to us that Unit  
13 1 is the unit of concern, but based on the design of  
14 the plant, we're having trouble understanding why Unit  
15 2 isn't the concern plant.

16 Recent press releases we have from Tokyo  
17 Electric don't specifically say which unit or units they  
18 are concerned with, and which units they propose to do  
19 the venting on. They speak about units that they can't  
20 maintain cooling, and that could be either unit.

21 DAN BLUMENTHAL: I just noticed on CNN that  
22 it says the Kyoto News Agency is reporting a release.

23 MALE PARTICIPANT: Mike Bradley (phonetic)  
24 just pointed that us out to us as well.

25 GREG CASTO: Okay.

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1 JOHN NAASTROM: Also, the IAEA report has  
2 some more information (inaudible) --

3 BILL BEAL: This is Bill Beal, scientist  
4 here at the NIT. We'll send you the IAEA report, but  
5 there's information on the water levels above the top  
6 of the core in all three units as of, you know, a certain  
7 time. And reports that the water level in Unit 1 was  
8 oscillating. No information on the status of the power  
9 supply to Unit 1.

10 No power supply to Unit 2, and they're  
11 undergoing work to restore it. And power supplied to  
12 Unit 3, and containment is intact in all three. And  
13 Unit 1 is the one that had the increase in containment  
14 pressure.

15 GREG CASTO: Okay.

16 BILL BEAL: But that's just a summary, and  
17 if you don't have the IAEA report, we'll send it out.

18 GREG CASTO: oh, that'd be -- we would  
19 appreciate that. As of a couple minutes ago, we didn't  
20 have, I haven't seen that information.

21 BILL BEAL: Okay, we'll send it.

22 GREG CASTO: Okay. Thank you.

23 MALE PARTICIPANT: (Inaudible)

24 BILL BEAL: What e-mail address?

25 GREG CASTO: I'll have to call you back on

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1 that.

2 DAN BLUMENTHAL: Do you have like, their  
3 Ops Center e-mail address, like?

4 GREG CASTO: I'll also give you a fax number  
5 in the Ops Center.

6 BILL BEAL: We do have to print it, so we  
7 can fax it.

8 GREG CASTO: Okay. All right. I'll have  
9 to get that.

10 BILL BEAL: So whichever is easier.

11 GREG CASTO: Okay. I will get you both,  
12 and I'll call Dan back on the 202-287 number and provide  
13 that momentarily.

14 MALE PARTICIPANT: Or we can just leave it  
15 wide open for --

16 GREG CASTO: Okay, all right, so are we done?  
17 I can do that in a little while if you want to continue  
18 on.

19 DAN BLUMENTHAL: Do you have anything else,  
20 John, or?

21 JOHN NAASTROM: No, I guess what we're going  
22 to do is, I think we're going to try and go digest this  
23 latest information, and then are we going to get back  
24 on the line in a little while to see if anyone can do  
25 an analysis of the potential source terms?

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1 GREG CASTO: Yes, we can --

2 MALE PARTICIPANT: (Inaudible) do it when  
3 your RASCALS, certain (inaudible)?

4 GREG CASTO: Right. Now, a RASCAL person  
5 is scheduled to come in at about 6:30. We also have  
6 a couple other people that are planning on coming in.  
7 We're partially staffing up the facility now. So I  
8 know the --

9 DAN BLUMENTHAL: (Inaudible) if you could  
10 find 6:45 Eastern time (inaudible)?

11 GREG CASTO: Okay, 6:45 we'll call back.

12 DAN BLUMENTHAL: Back into this bridge line  
13 phone number.

14 GREG CASTO: Okay, same bridge line, okay.  
15 All right.

16 JOHN NAASTROM: And then right now, they're  
17 having a deputy-level meeting and that was at 5:30 and  
18 they usually go for 30 to 45 minutes, so they'll probably  
19 be coming and asking for more information, so if, you  
20 know, 6:45 (inaudible).

21 GREG CASTO: We should, you know, based on,  
22 and I think the big thing for us is just what we're going  
23 to use as information to plug in for our source term,  
24 and we could probably run a couple, but based on what  
25 it sounds like they plan to do right now with the controlled

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1 venting, release rates would be nil.

2           They wouldn't be significant at all. So  
3 what I would propose is that we would come up with a  
4 couple source term scenarios and runt hem. And then  
5 we might have some, you know, some anticipated, off site  
6 release information based on what we think we might see  
7 coming down the road. And maybe we could do it that  
8 way.

9           DAN BLUMENTHAL: Sounds good.

10          GREG CASTO: Okay.

11          DAN BLUMENTHAL: All right, so we'll  
12 reconvene at 1845 Eastern Time.

13          GREG CASTO: Okay. If somebody wants to  
14 hold for just a second, I'll go get some numbers and  
15 e-mail addresses and be right back.

16          DAN BLUMENTHAL: Okay, we'll stay on the  
17 line.

18          GREG CASTO: Okay, thank you.

19          JOHN NAASTROM: And you said 6:45 Eastern,  
20 right?

21          DAN BLUMENTHAL: Yes. So are you going to  
22 hang on while he gets the e-mails and?

23          JOHN NAASTROM: (Inaudible) talk to him  
24 directly when we need to.

25          MALE PARTICIPANT: John, the time on that

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1 slip of paper is when I saw I on CNN, not the release  
2 time.

3 JOHN NAASTROM: Okay, good.

4 MALE PARTICIPANT: Release time was  
5 (inaudible).

6 JOHN NAASTROM: All right.

7 DAN BLUMENTHAL: Hey John, this is Dan.  
8 John?

9 JOHN NAASTROM: Yes, I'm back, Dan. John  
10 here.

11 DAN BLUMENTHAL: Bill Beal was uploading  
12 some stuff to the ARMS Event Manager and so do you have  
13 anything that you want to us, you can just attach documents  
14 to the event in ARMS.

15 JOHN NAASTROM: Okay.

16 DAN BLUMENTHAL: Then CM Web will be for  
17 the plots. But we have, you know, event tracking and  
18 logs, anything you want to put.

19 GREG CASTO: Okay, Greg's back. Hello?

20 DAN BLUMENTHAL: Okay.

21 GREG CASTO: Okay, e-mail address is  
22 HOO.HOC@nrc.gov.

23 JOHN NAASTROM: Do you have a fax also, or?

24 GREG CASTO: Fax number, yes, I do. Fax  
25 number is 301-816-5151.

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1 JOHN NAASTROM: Telephone?

2 GREG CASTO: Telephone, 301-816-5100. And  
3 that will go into the HOOs and then they can connect  
4 you with anybody.

5 JOHN NAASTROM: Okay. And if you need to  
6 send us an e-mail, it's NIT OPS, so N-I-T --

7 GREG CASTO: N-I-T.

8 JOHN NAASTROM: O-P-S --

9 GREG CASTO: N-I-T -- I'm sorry, you broke  
10 up.

11 JOHN NAASTROM: It's NIT OPS, so November,  
12 India, Tango, Oscar, Papa, Sierra.

13 GREG CASTO: Got it.

14 JOHN NAASTROM: At nnsa.doe.gov. And  
15 should also include on the two lines, narac@llnl.gov.

16 GREG CASTO: N-A-R-A-C at, repeat?

17 JOHN NAASTROM: Sorry. Llnl.gov.

18 GREG CASTO: N-L-L-N-L dot G-O-V. Okay,  
19 got it.

20 JOHN NAASTROM: Okay.

21 DAN BLUMENTHAL: So we got, we're looking  
22 at the Kyoto News so far and it seems (inaudible) staff  
23 is pointing out, it seems somewhat like conjecture based  
24 on some reports there's 8 times radiation, 8 times normal  
25 radiation measured in some locations.

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1 GREG CASTO: Yes, but who knows what that  
2 would mean, then?

3 MALE PARTICIPANT: But then it does look  
4 like official announcements.

5 GREG CASTO: Right. We saw a thousand times  
6 normal earlier and that doesn't really, you know, there's  
7 no quantification for what that means. That could still  
8 be nothing. So, again.

9 JOHN NAASTROM: Okay. And then the phone  
10 number for NARAC is 925 --

11 GREG CASTO: 925.

12 JOHN NAASTROM: -- 422 --

13 GREG CASTO: 422.

14 JOHN NAASTROM: -- 9100.

15 GREG CASTO: 9100. NARAC number. Got it.  
16 Okay, great. At 6:45 --

17 DAN BLUMENTHAL: (Inaudible) theymakewe'll  
18 put up on CM Web.

19 GREG CASTO: Okay. I wonder if we have access  
20 to CM Web?

21 DAN BLUMENTHAL: Do you guys, I don't know  
22 who has the accounts, but I think John can tell you all  
23 the ops Center folks who have accounts, so if the right  
24 people don't, then we'll just create them.

25 GREG CASTO: Okay, okay, all right, okay,

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1 great, appreciate it.

2 DAN BLUMENTHAL: John, if you can e-mail  
3 them a list just at their e-mail address of who has accounts  
4 at the Ops center, I assume?

5 JOHN NAASTROM: Yes, we can do that.

6 GREG CASTO: Okay, will know accounts. Okay,  
7 appreciate that.

8 JOHN NAASTROM: Then you can see if that  
9 jibes with the people that are coming in.

10 GREG CASTO: Right, okay, appreciate that.

11 DAN BLUMENTHAL: And they already created  
12 a folder on CM Web for this stuff.

13 GREG CASTO: Okay, (inaudible) exists.

14 DAN BLUMENTHAL: But yes, you can start  
15 sharing it with the NRC folks, John.

16 JOHN NAASTROM: Okay.

17 GREG CASTO: Okay. Appreciate that.

18 DAN BLUMENTHAL: Okay, so we'll talk again  
19 in --

20 GREG CASTO: About --

21 DAN BLUMENTHAL: (Inaudible) minutes.

22 GREG CASTO: Yes. Okay, sounds good.

23 DAN BLUMENTHAL: Okay, thanks.

24 JOHN NAASTROM: Talk to you soon  
25 (inaudible).

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GREG CASTO: Okay, thanks guys, appreciate

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(CONFERENCE CALL INITIATED)

STACY (PHONETIC): Hi, you have reached Stacy's (phonetic) cell phone, but not Stacy. So please leave me a message and I will call you back as soon as I can. Thanks a lot. Bye.

OPERATOR: At the tone, please record your message. When you have finished recording, you may hang up or press one for more options.

GREG CASTO: Stacy, this is Greg Casto. And I am calling you on official business. We are doing a limited staffing of the PMT to address the earthquake in Japan. And I'm calling you for the PAD position for tonight starting at 11 PM.

If you can call me back, either into the HOO or on my cell phone, (b)(6) I would appreciate it. Thank you. Bye.

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(CONFERENCE CALL INITIATED)

OPERATOR: You have reached the Sprint voice mailbox of --

MICHELLE HART: Michelle Hart.

OPERATOR: To leave a voice message, press one, or --

GREG CASTO: Michelle, this is Greg Casto and are currently in the Ops Center. And I'm calling you for official business. We are doing a limited staffing of the PMT to address the earthquake situation in Japan and I'm calling you for the position of the RAAD to report in this evening at 11 PM.

If you could give me a call back, either by calling into the HOO or calling my cell phone at

(b)(6) I appreciate it. Thank you.

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(CONFERENCE CALL INITIATED)

GREG CASTO: Wow.

OPERATOR: Your call has been forwarded to an automated voice messaging system.

JACK FOSTER: Jack Foster.

OPERATOR: Is not available. At the tone, please record your message. When you've finished recording, you may hang up, or press one for more options. To leave a call back number, press five.

GREG CASTO: Jack, this is Greg Casto and I'm in the Ops Center. And I'm calling you because we're doing a limited staffing of the PMT, and this is not a drill. We are supporting the activities in Japan resulting from the earthquake.

I'm calling you for the position of the PMT Coordinator and I need somebody to come in now and work until 11 PM when we'll do a turnover. If you would call me back when you get this message, I appreciate it.

Either call into the HOO or call my cell phone, (b)(6) Thank you. Bye.

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(CONFERENCE CALL INITIATED)

KATHERINE (PHONETIC): Hello?

GREG CASTO: Katherine (phonetic)?

KATHERINE : Yes?

GREG CASTO: This is Greg Casto, how are  
you?

KATHERINE : Okay. How are you?

GREG CASTO: Okay, except I'm afraid I'm  
going to ruin that for you.

KATHERINE : Got to come in?

GREG CASTO: We are doing a limited staffing  
of the MT.

KATHERINE : All right.

GREG CASTO: To support what's going on in  
Japan.

KATHERINE : Okay.

GREG CASTO: And can you come in at 11:00  
tonight?

KATHERINE : Yes.

GREG CASTO: Okay.

KATHERINE : What if were a little later  
than that?

GREG CASTO: That's fine. You're replacing  
me, so whenever you get in.

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1 KATHERINE : Okay.

2 GREG CASTO: And then I'll come in tomorrow,  
3 I don't know, right now I think we're going to shift  
4 again at about 7:00, so.

5 KATHERINE : Okay.

6 GREG CASTO: All right? Thank you.

7 KATHERINE : So, all right, I'll get the  
8 turnover when I get there.

9 GREG CASTO: Okay. All right.

10 KATHERINE : All right.

11 GREG CASTO: Thank you.

12 KATHERINE : Thanks. Bye.

13 GREG CASTO: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 JASON (PHONETIC): Hello?

4 GREG CASTO: Jason (phonetic)?

5 JASON: Speaking.

6 GREG CASTO: This is Greg Casto. How are  
7 you?

8 JASON: Okay. How are you?

9 GREG CASTO: Well, I'm good. I'm hoping  
10 I'm not ruining your day, because this is not a drill.

11 JASON: No, I been watching it all day.  
12 Matter of fact, I just got home. I stayed two hours  
13 late today because of it.

14 GREG CASTO: Well, we're doing a limited  
15 staffing of the PMT.

16 JASON: All right. I'm not on the PMT.

17 GREG CASTO: I've got you on the PMT.

18 JASON: I'm on the RST.

19 GREG CASTO: I've got you on the PMT as the  
20 RAAD.

21 JASON: I moved over the end of September.

22 GREG CASTO: Really? Oh, gosh, okay, the  
23 thing is not up to date. Okay. Got it.

24 JASON: I mean, the RST might call me like,  
25 in an hour or something.

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1 GREG CASTO: Yes, they might. I know they're  
2 doing --

3 JASON: I called Steve Lavie yesterday, he's  
4 around.

5 GREG CASTO: Yes, you know, I've called and  
6 left him a message. So okay.

7 JASON: Well, I can come in if you need me,  
8 but as of September, you can check with Rick Hasselberg,  
9 I'm not on the PMT.

10 GREG CASTO: Ooh, okay.

11 JASON: Or Lou Brandon, you can check with  
12 both of them.

13 GREG CASTO: Yes, the what you ma call it  
14 is not up to date then, okay.

15 JASON: But whatever, you know, I (inaudible)  
16 as Randy Sullivan says. Call me if you need me.

17 GREG CASTO: Okay, let me --

18 JASON: I'll be home.

19 GREG CASTO: All right. Let me do that.  
20 I'm hoping others will come back.

21 JASON: (Inaudible).

22 GREG CASTO: okay. It'll probably be an  
23 11 PM shift until about 7:00 tomorrow morning.

24 JASON: All right, well I'm here. So just  
25 call me if you need me.

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GREG CASTO: All right, thank you.

JASON: Yes.

GREG CASTO: Appreciate you.

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1  
2 (CONFERENCE CALL INITIATED)

3 GREG CASTO: Wind speed, direction,  
4 stability class? Is that what you're looking for?

5 KAREN (PHONETIC): This is Karen (phonetic).

6 GREG CASTO: Hi Karen, this is Greg Casto  
7 at the NRC.

8 KAREN : Yes, hi Greg.

9 GREG CASTO: Hi. I was calling into NARAC,  
10 we were on the bridge with John Naastrom. Sound right?

11 KAREN : Yes.

12 GREG CASTO: Anyway, had some questions for  
13 him and we're still on the bridge, but I can't get anybody  
14 on the other side, so.

15 KAREN : Oh. Okay.

16 GREG CASTO: Are you also in the same room,  
17 or?

18 KAREN : Yes, yes, (inaudible) the same room.

19 GREG CASTO: Oh, oh, okay.

20 KAREN : I'll just go see if (inaudible).

21 GREG CASTO: Or I can ask you. Our question  
22 is, we're doing some RASCAL runs for source term data.  
23 And we need some current met data. Wind speed, wind  
24 stability, or wind speed, wind direction, stability class.

25 KAREN : Okay. Current meta data?

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1 GREG CASTO: Yes.

2 KAREN : Okay, so can you hold on for just  
3 one moment, Greg?

4 GREG CASTO: You bet.

5 KAREN : Okay.

6 JOHN NAASTROM: Hi, this is John Naastrom.

7 GREG CASTO: Hey John, it's Greg Casto.

8 JOHN NAASTROM: Hey, Greg.

9 GREG CASTO: Hey. You guys have current  
10 met data?

11 JOHN NAASTROM: Yes, we got tons of data.  
12 We got a whole -- we have 3-D, coated windshields that  
13 we've been using over here.

14 GREG CASTO: Yes, that's probably more than  
15 we need.

16 JOHN NAASTROM: Yes.

17 GREG CASTO: But wind speed, wind direction,  
18 stability class, that's Delta-T or sigma theta, whatever  
19 you got.

20 JOHN NAASTROM: Yes. Yes, we can give you  
21 that. What we're using is, we're actually going to have  
22 high resolution forecast model, but I can have someone  
23 give that you to. And it'll probably be as a function  
24 of time. So hang on and I'll try to get someone on the  
25 line that can give that to you.

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1 GREG CASTO: Okay.

2 JOHN NAASTROM: So how are you guys doing  
3 on the source term?

4 GREG CASTO: We're running it right now.

5 JOHN NAASTROM: Okay. All right. Okay.  
6 Stand by.

7 GREG CASTO: Okay. They're getting it.

8 JOHN NAASTROM: All right, Greg, I'm back.  
9 So would it be easier -- we're going to get that data  
10 out for you, we'll send you every hour. Would it be  
11 good if we just e-mail it to that HOO HOC e-mail address?

12 GREG CASTO: Yes.

13 JOHN NAASTROM: Okay, all right, well we'll  
14 do that.

15 GREG CASTO: Okay, great. Thank you.

16 JOHN NAASTROM: Bye-bye.

17 GREG CASTO: Bye.  
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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center.

HEADQUARTERS OPERATIONS OFFICER: Hello, this is Mark Brown (phonetic) with Headquarters Operations Officer. I got somebody from DoE on the line. Connecting you now.

GREG CASTO: You bet. Okay.

BILL BEAL: Hello, this is Bill Beal.

GREG CASTO: Hi Bill, this is Greg Casto.

BILL BEAL: Hi, Greg.

GREG CASTO: Hi.

BILL BEAL: I'm calling from NIT Ops. I just sent you, I don't know if you've checked the e-mail or not, but I just forwarded you a fresh e-mail that's similar to the old one that had the data in it. This is updated information, I know you're in the middle of working on something already, but I wanted to give you the heads up that that was sitting in your inbox.

GREG CASTO: Great, okay.

BILL BEAL: At the HOO OPS address.

GREG CASTO: Okay, okay. Sounds good, I'll go pick it up. And we're still working on our scenarios, but we're pretty close, so.

BILL BEAL: Okay, great.

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1 GREG CASTO: Okay?

2 BILL BEAL: We'll be looking for it.

3 GREG CASTO: All right. I'll give you a  
4 call back when we're ready to send, just so you know  
5 we put it out there.

6 BILL BEAL: Okay, (inaudible) to 8100  
7 number?

8 GREG CASTO: The, well, let's see, that's  
9 a good question.

10 BILL BEAL: If you dial a specific number,  
11 it may not, you know, that line may be busy. But if  
12 you call 8100, 202-586-8100, they'll be able to talk  
13 you through to an open line.

14 GREG CASTO: Okay. Because I've got, let's  
15 see, a NARAC. I've got the 925-422 number, 9100?

16 BILL BEAL: Yes.

17 GREG CASTO: Yes.

18 BILL BEAL: That's out at NARAC.

19 GREG CASTO: Right. Okay, well let's see.  
20 So what's this number again?

21 BILL BEAL: It's DoE headquarters numbers,  
22 our Ops Center number is 202 --

23 GREG CASTO: 202.

24 BILL BEAL: -- 586 --

25 GREG CASTO: 586.

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1 BILL BEAL: -- 8100.

2 GREG CASTO: 8100. Okay, okay, so we'll  
3 call you --

4 BILL BEAL: And that's actually the watch  
5 office, so you'll have to ask to have them patch you  
6 through to what's called the NIT, the Nuclear Incident  
7 Team.

8 GREG CASTO: Okay. Patch to NIT. Got it.  
9 Okay.

10 BILL BEAL: All right?

11 GREG CASTO: We'll do that.

12 BILL BEAL: Thanks a lot.

13 GREG CASTO: All right, thanks. Bye.

14 BILL BEAL: Bye.  
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Docket Number: N/A

Location: N/A

Date: Saturday, March 12, 2011

Work Order No.: NRC-4222

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SATURDAY,  
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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center.

ROSETTA BRUGILIO (phonetic): Oh, yes.

I was trying to reach, you know, whoever is over on the Protective Measures Team.

GREG CASTO: You've got him.

ROSETTA BRUGILIO: Hi, who is this?

GREG CASTO: This is Greg Castow.

ROSETTA BRUGILIO: Hey, Greg, it's Rosetta Brugilio. How are you?

GREG CASTO: Hi, Rosetta. How are you?

ROSETTA BRUGILIO: Good.

GREG CASTO: Good.

GREG CASTO: Hey, listen, I need some assistance I think from the Protective Measures Team. We're trying to address some basic (indiscernible, possibly "feuds") for States. We want to just to give them some talking points.

This is based on a briefing that we sat in with Bill Borchert (phonetic) and he agreed and I understand that he just had a call with the Chairman --

GREG CASTO: Right.

ROSETTA BRUGILIO: -- and he told the

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1 Chairman and the Chairman's like yes, okay, that's  
2 fine. But we wanted to make some basic statements  
3 about, you know, monitoring and we recognize, you  
4 know, we're not really doing anything at this point,  
5 but --

6 GREG CASTO: Okay.

7 ROSETTA BRUGILIO: -- but I will send  
8 you something that I just put together. But I'm  
9 just looking for sort of a basic statement that, you  
10 know, that says something along the lines that, you  
11 know, NRC licensees, you know, perform monitoring  
12 around or have radiological --

13 GREG CASTO: Okay.

14 ROSETTA BRUGILIO: -- monitoring  
15 equipment around nuclear power plants.

16 GREG CASTO: Okay, yes. We can answer  
17 to that. Not a problem.

18 ROSETTA BRUGILIO: You know, and we can  
19 say basically EPA has permanent stationary  
20 radiological monitoring stations on the West Coast.

21 In the event of a confirmed radiological release,  
22 now I got this from, OPA said I could say some of  
23 this that --

24 GREG CASTO: Okay.

25 ROSETTA BRUGILIO: -- that in the event

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1 of a confirmed radiological release with a potential  
2 to impact the U.S., EPA is the Federal Agency  
3 responsible for radiological monitoring.

4 DOE would be responsible for aerial  
5 monitoring should there be a confirmed radiological  
6 release.

7 GREG CASTO: Right. And this is in  
8 concern to a plume from Japan?

9 ROSETTA BRUGILIO: Yes.

10 GREG CASTO: Yes, coming across the --

11 ROSETTA BRUGILIO: Yes.

12 GREG CASTO: -- Pacific, okay. I  
13 understand.

14 ROSETTA BRUGILIO: But really what I'm  
15 looking for is just sort of a basic statement that  
16 says, you know, that NRC licensees have radiological  
17 monitoring equipment around their nuclear power  
18 plants and --

19 GREG CASTO: Not all do, but we can  
20 answer to it.

21 ROSETTA BRUGILIO: Could you really?

22 GREG CASTO: Yes, we can.

23 ROSETTA BRUGILIO: Just sort of, I'm  
24 just looking for sort of a statement, sort of a  
25 strong statement that'll --

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1 GREG CASTO: Understand. Okay.

2 ROSETTA BRUGILIO: Or they'll do that.

3 GREG CASTO: Okay.

4 ROSETTA BRUGILIO: And I think probably  
5 what I might want to do is share what I have in  
6 general.

7 GREG CASTO: Okay. Now are you over in  
8 the LT?

9 ROSETTA BRUGILIO: I'm over in the LT,  
10 yes.

11 GREG CASTO: Okay. Well I can come  
12 over. I'm working on the Q&As that we want to get  
13 done by 8:00.

14 ROSETTA BRUGILIO: Is this for?

15 GREG CASTO: The Chairman.

16 ROSETTA BRUGILIO: Oh, great.

17 GREG CASTO: So I'm finishing that up.  
18 As soon as I finish this up I'll come over there and  
19 we'll take that on.

20 ROSETTA BRUGILIO: Great. Oh, thank  
21 you, Greg. Thanks very much.

22 GREG CASTO: All right.

23 ROSETTA BRUGILIO: All right.

24 GREG CASTO: See you in awhile.

25 ROSETTA BRUGILIO: Bye-Bye.

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GREG CASTO: Bye.

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(CONFERENCE CALL INITIATED)

MICHELLE HART (phonetic): Headquarters  
Operation Center. This is a recorded line.

DAVE YOUNG (phonetic): Hi. Am I  
speaking to the PMT?

MICHELLE HART: This is the PMT, yes.

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

MICHELLE HART: Yes, hello.

DAVE YOUNG: Hi. Who am I speaking  
with?

MICHELLE HART: This is Michelle Hart.  
I am the Radiological Assessment Assistant Director.

DAVE YOUNG: Hi, Michelle. I'm calling  
from the NIT, Nuclear Incident Team, here at the DOE  
Emergency Operations Center and I wanted to talk to  
Lou Brandon (phonetic).

MICHELLE HART: Okay. Just give me a  
moment.

DAVE YOUNG: Okay.

LOU BRANDON: Hello, Dave. Lou Brandon.

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

LOU BRANDON: Pretty good.

DAVE YOUNG: Hey, so I wanted to give

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1 you an update on what we're doing over here.

2 LOU BRANDON: Let me grab a pencil.

3 Hold on just a --

4 DAVE YOUNG: No problem.

5 LOU BRANDON: -- one minute. Okay.

6 DAVE YOUNG: Okay. So we're tasked on  
7 our leadership to do a comparison between what's  
8 going on right now in Japan, TMI, and Chernobyl. So  
9 we've tapped NERAC to, I mean, give us something for  
10 TMI and Chernobyl.

11 But what we're planning to use is the 10  
12 percent core failure source term that you gave us  
13 yesterday, last night. And so we wanted to get your  
14 buy end, is that a good source of views or should we  
15 use something different?

16 LOU BRANDON: Right. In TMI --

17 DAVE YOUNG: -- I'll (indiscernible)  
18 making it up. We're making it up, so --

19 LOU BRANDON: In TMI they melted about  
20 40 percent of the core and, you know, in Chernobyl  
21 they blew the top off. And for Chernobyl it  
22 released for ten days and the wind blew in basically  
23 three different directions over that 10-day period  
24 and spread the stuff all around.

25 DAVE YOUNG: Okay.

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1                   LOU BRANDON:   Here's some interesting  
2 statistics if you want to write these down.

3                   DAVE YOUNG:   Yes.

4                   LOU BRANDON:   These are for curies  
5 released, TMI versus Chernobyl.  Noble gases, TMI  
6 released 2.5 million curies.

7                   DAVE YOUNG:   Okay.

8                   LOU BRANDON:   Chernobyl released 170  
9 million.

10                  DAVE YOUNG:       One hundred seventy  
11 million.  Okay.

12                  LOU BRANDON:       Radio iodines, TMI  
13 released 15.

14                  DAVE YOUNG:   Fifteen curies?

15                  LOU BRANDON:   Fifteen curies.

16                  DAVE YOUNG:   Okay.

17                  LOU BRANDON:   And Chernobyl released 48  
18 million curies.

19                  DAVE YOUNG:   Okay.

20                  LOU BRANDON:   So, and in terms of other  
21 types of radio nuclides, TMI released negligible and  
22 Chernobyl released 72 million, you know, they blew  
23 the top off, blew the reactor core all over the  
24 place out there.

25                  DAVE YOUNG:   Okay.

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1 LOU BRANDON: So that should size things  
2 up in terms of a situation where a containment held  
3 and worked well versus no containment.

4 DAVE YOUNG: Okay.

5 LOU BRANDON: Now if you want to model  
6 it, TMI about 40 percent core damage, and then they  
7 have to decide whether you want to model containment  
8 intact or not.

9 Are you guys running Rascal over there?

10 DAVE YOUNG: No. We're running NERACs.

11 LOU BRANDON: Well NERAC uses a source  
12 term --

13 DAVE YOUNG: Using the source that you  
14 guys provide, and you guys run the Rascal --

15 LOU BRANDON: Yes.

16 DAVE YOUNG: So I guess our question is,  
17 would you recommend that we use the 40 percent --

18 LOU BRANDON: Yes.

19 DAVE YOUNG: -- core melted that you  
20 sent us yesterday.

21 LOU BRANDON: Yes.

22 DAVE YOUNG: Okay.

23 LOU BRANDON: Did we sent that to you?  
24 We sent you a 10 percent.

25 DAVE YOUNG: I believe you did.

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1                   LOU BRANDON: We got a 40 percent which  
2 is very similar. We just uncovered the core a  
3 little bit longer to increase the damage.

4                   DAVE YOUNG: I believe you did send that  
5 to us, at least sent to NERAC yesterday. We'll  
6 double check.

7                   LOU BRANDON: Okay. If you need it,  
8 it's at our fingertips here.

9                   DAVE YOUNG: Okay. All right. Thanks,  
10 Lou, appreciate it.

11                   LOU BRANDON: All right. Talk to you  
12 later.

13                   DAVE YOUNG: Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Operations Center,  
4 Brock.

5 DAVE YOUNG: Hi, Kathy. This is Dave  
6 Young from DOE.

7 KATHRYN BROCK: Hey, how you doing?

8 DAVE YOUNG: Fine. If we get on a, be  
9 on the conference call in about 15 minutes at I  
10 guess 5:00?

11 KATHRYN BROCK: I'm sorry. Can you say  
12 that again? You're getting on a conference call?

13 DAVE YOUNG: Oh, can we get on the  
14 conference call --

15 KATHRYN BROCK: Oh, yes.

16 DAVE YOUNG: -- so we can talk  
17 (indiscernible) the NERAC product --

18 KATHRYN BROCK: Yes.

19 DAVE YOUNG: -- for that source term?

20 KATHRYN BROCK: Yes. So am I calling  
21 that --

22 DAVE YOUNG: Yes. Call the same number,  
23 the (202) --

24 KATHRYN BROCK: I have it here. I just  
25 got to flip through a page. Yes, I got it, 245.

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1 All right, so at 5:00 -- yes, and we just now hung  
2 up with NERAC and we went --

3 DAVE YOUNG: Yes. We had some questions  
4 about so we wanted to make sure we have you and  
5 NERAC on there so that there's no confusion.

6 KATHRYN BROCK: All right. You guys had  
7 questions or NERAC had questions?

8 DAVE YOUNG: I do. We do.

9 KATHRYN BROCK: Oh, sure. Okay. Yes,  
10 we'll call in at 5:00.

11 DAVE YOUNG: Okay. Thank you very much.

12 KATHRYN BROCK: Thanks. Bye.

13 DAVE YOUNG: All right. Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: OP Center, Brock.

4 DAVE YOUNG: Hi, Kathy. This is Dave  
5 Young from DOE.

6 KATHRYN BROCK: Hey, how you doing?

7 DAVE YOUNG: Hey, I'm doing good. How  
8 are you?

9 KATHRYN BROCK: Good. I'm about ready  
10 to leave, man. I've had enough.

11 DAVE YOUNG: I'm ready, too.

12 KATHRYN BROCK: What do you know?

13 DAVE YOUNG: So we just got an update.  
14 We were watching the Prime Minister speak, and so we  
15 got an email there was a, we weren't paying  
16 attention that much based on we were doing other  
17 stuff.

18 But we got an email kind of summing up  
19 what you said and so, told us that the walls of the  
20 reactor building blew up, but the (indiscernible)  
21 vessel was undestroyed or unaffected by  
22 (indiscernible, possibly "everything").

23 KATHRYN BROCK: Excellent.

24 DAVE YOUNG: So they think it is caused  
25 by hydrogen leaking from the water and let me see,

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1 and imbedding itself between the (indiscernible)  
2 vessel and the building wall.

3 So my question is, so does this put us  
4 closer to the Armageddon scenario?

5 KATHRYN BROCK: No. But hang on. Let  
6 me get, Steve's going to want to hear this, but it,  
7 no, that's good news. Oh, Christ. All right if I  
8 screw up, call back okay?

9 All right. Can you hear us, Dave?  
10 Dave, can you hear us?

11 DAVE YOUNG: I can hear you.

12 KATHRYN BROCK: Okay, good. All right.  
13 So you want to repeat what you just told me about  
14 the email you got so that Steve can hear you.

15 DAVE YOUNG: We got a summary of the  
16 press conference I guess by the Prime Minister and  
17 so we weren't really paying attention as we were  
18 doing some other things, so we got an email summary,  
19 so I hope this is what he said on TV.

20 But, someone said on TV that the  
21 explosion that we all saw on TV a little bit  
22 earlier, the explosion (indiscernible) was only from  
23 the walls of the reactor building, but it left the  
24 pressure vessel intact.

25 So the hydrogen, they believe it's

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1 hydrogen leaking from the water in between the  
2 pressure vessel and the walls so it blew out the  
3 walls.

4 KATHRYN BROCK: Can you share the email  
5 with us again?

6 DAVE YOUNG: So does this put us closer  
7 to the worst case scenario that we were talking  
8 about a little bit earlier?

9 MALE PARTICIPANT: Right.

10 KATHRYN BROCK: No, that's a question.

11 MALE PARTICIPANT: Oh, no, because as  
12 long as the (indiscernible, possibly OPTV) is still  
13 intact --

14 KATHRYN BROCK: The bad stuff contains.

15 MALE PARTICIPANT: For there to be that  
16 kind of explosion and not have a damage in the  
17 pressure vessel --

18 KATHRYN BROCK: It's good, yes.

19 MALE PARTICIPANT: Well, no, I  
20 understand what you're saying is, hydrogen is  
21 usually associated with fuel melt. Did they say  
22 anything about what they thought the status of the  
23 core was?

24 DAVE YOUNG: That was not in the summary  
25 that we got.

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1 MALE PARTICIPANT: We're still only  
 2 hearing things like, the dose rates they're seeing  
 3 are only a thousand times higher than normal. So  
 4 that worst case scenario we ginned up earlier and we  
 5 actually sent it to you, you know, we would be  
 6 seeing something much higher than a thousand times  
 7 if we're getting protective actions exceeded at 50  
 8 miles.

9 KATHRYN BROCK:

(b)(5)

(b)(5)

11 MALE PARTICIPANT:

(b)(5)

(b)(5)

13 DAVE YOUNG: Yes, I mean,

(b)(5)

14 (b)(5)

15 MALE PARTICIPANT: Okay.

16 DAVE YOUNG: -- you know, you could have  
 17 an explosion and if you've seen it on TV it's a  
 18 pretty --

19 MALE PARTICIPANT: Right.

20 DAVE YOUNG: -- significant explosion  
 21 and that you wouldn't have damage to the pressure  
 22 vessel.

23 MALE PARTICIPANT: Not necessarily. You  
 24 know, we're speculating again, of course, but in the  
 25 reactor building, Mach 1 Reactor is constructed of

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1 like 3-feet to (indiscernible) concrete below the  
2 level of the top of the building.

3 And then there's this steel structure  
4 that goes above that that has a corrugated steel  
5 skin on it. The spent fuel pool sits up in that  
6 area. But the containment integrity is not  
7 associated with that skin on the building.

8 So it's, you know, it's --

9 MALE PARTICIPANT: Did it have  
10 (indiscernible) damage to any spent fuel in the  
11 spent fuel pool?

12 MALE PARTICIPANT: Well, yes, that's, we  
13 don't know how long the unit's been operating, but  
14 the fact that they have two other reactors shut down  
15 in that site for outage, it implies that this  
16 reactor has still been operating for awhile.

17 And if it's been operating awhile that  
18 means the fuel in the spent fuel pool has been  
19 detaining for awhile. And the short live stuff such  
20 as iodines and a lot of the level gases will have  
21 gone away.

22 Now the long live stuff, thesium's  
23 (phonetic) still there, but unless they have a fire  
24 in the spent fuel pool that blew out all the water  
25 or something, we shouldn't see a zerd (phonetic)

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1 fire.

2 MALE PARTICIPANT: Other information  
3 that we got from that was that they were using  
4 borated seawater to try to cool, you know, whatever  
5 they have left there. So, I mean, not that  
6 necessarily impacts anything that we're talking  
7 about, but just, you know, for your information  
8 that's --

9 MALE PARTICIPANT: Right.

10 MALE PARTICIPANT: -- what we though  
11 (indiscernible).

12 MALE PARTICIPANT: Okay.

13 KATHRYN BROCK: Will you guys mind  
14 sending us that email again like you did the last  
15 one?

16 DAVE YOUNG: Well, we'll try.

17 KATHRYN BROCK: Okay.

18 DAVE YOUNG: (Indiscernible).

19 KATHRYN BROCK: All right. Anything  
20 else, Steve?

21 MALE PARTICIPANT: So what we heard was  
22 that the explosion was within the walls of the  
23 reactor building, but they --

24 DAVE YOUNG: Yes.

25 MALE PARTICIPANT: -- but they believe

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1 the reactor pressure vessel is intact. They think  
2 it was a hydrogen explosion --

3 DAVE YOUNG: Yes.

4 MALE PARTICIPANT: And they're using  
5 borated seawater to make up water.

6 DAVE YOUNG: That pretty much sums it  
7 up.

8 MALE PARTICIPANT: No dose rates?

9 MALE PARTICIPANT: No. We don't have  
10 any of that information yet.

11 DAVE YOUNG: Okay.

12 KATHRYN BROCK: Thanks. You guys are  
13 supplying us with our best info, so I appreciate it.

14 MALE PARTICIPANT: Do they have  
15 information on evacuation?

16 KATHRYN BROCK: Oh, do you have any new  
17 information on evacuation and protective measures?

18 DAVE YOUNG: I think that stuff is on  
19 the internet. I haven't looked at too closely --

20 MALE PARTICIPANT: No, I just saw that  
21 they --

22 DAVE YOUNG: -- but like 10 kilometers -

23 -

24 MALE PARTICIPANT: -- evacuated --

25 DAVE YOUNG: -- to 28 kilometers --

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1 MALE PARTICIPANT: Yes.

2 DAVE YOUNG: -- around the --

3 KATHRYN BROCK: All right. So it hasn't  
4 changed?

5 FEMALE PARTICIPANT: Ten kilometers?

6 KATHRYN BROCK: Yes. And I need to make  
7 some introductions. We have our new shift coming  
8 in. We have Pirsanta Chaudery (phonetic) and Stacey  
9 Rosenberg (phonetic).

10 So if you call back five minutes from  
11 now that's who you'll get.

12 DAVE YOUNG: What was the name?

13 KATHRYN BROCK: Stacey Rosenberg and  
14 Pirsanta Chaudery.

15 FEMALE PARTICIPANT: Who is it?

16 KATHRYN BROCK: This is Dave Young.

17 FEMALE PARTICIPANT: Of?

18 KATHRYN BROCK: DOE. All right. Well  
19 thank you.

20 DAVE YOUNG: We'll talk soon.

21 KATHRYN BROCK: All right. See you  
22 later.

23

24

25

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1  
2 (CONFERENCE CALL INITIATED).

3 MALE PARTICIPANT: Operations Center,  
4 PMT Team.

5 MALE PARTICIPANT: Hi, PMT.  
6 Headquarters Operations Officer again. Is Bruce  
7 Watson (phonetic) available to talk to this guy from  
8 Lawrence Livermore (phonetic), Mr. Vogt (phonetic)?

9 MALE PARTICIPANT: We take a message  
10 because Bruce is working on an email for the  
11 Chairman.

12 MALE PARTICIPANT: Okay. This is Mr.  
13 Vogt calling from the Lawrence Livermore Lab, so I'm  
14 going to put him through to you, okay?

15 MALE PARTICIPANT: Thanks.

16 MALE PARTICIPANT: Okay. Here he is.

17 STACEY ROSENBERG: Hello, this is Stacey  
18 Rosenberg.

19 PHIL VOGT (phonetic): Hi, Stacey. This  
20 is Phil Vogt at NERAC.

21 STACEY ROSENBERG: Hi, Phil.

22 PHIL VOGT: I just emailed you a  
23 forecast. Winds are going to be pretty light out of  
24 the Southwest today.

25 STACEY ROSENBERG: Okay.

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1 PHIL VOGT: And I just want to make sure  
2 you got it.

3 STACEY ROSENBERG: Winds light from the  
4 Southwest?

5 PHIL VOGT: Correct.

6 STACEY ROSENBERG: Okay. My pen isn't  
7 working. Okay, any other information?

8 PHIL VOGT: No. No new predictional  
9 plume stuff yet.

10 STACEY ROSENBERG: Okay. All right.  
11 Thank you very much.

12 PHIL VOGT: You betcha, Stacey.

13 STACEY ROSENBERG: Okay.

14 PHIL VOGT: Bye.

15 STACEY ROSENBERG: Bye.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC Operations  
Center.

MALE PARTICIPANT: Hi, I got a  
gentleman, this is Headquarters Operations Officer.

I got a gentleman on the line from the EPA.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Could I patch him  
through?

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Okay. Hold on.

MALE PARTICIPANT: Hello.

ED TUPIN (phonetic): Hello. This is Ed  
Tupin, EPA. Is Bruce Watson available?

MALE PARTICIPANT: Bruce Watson, yes. I  
will get him.

ED TUPIN: Thank you.

MALE PARTICIPANT: Bruce?

BRUCE WATSON: Yes.

MALE PARTICIPANT: You have EPA on the  
phone asking for you.

BRUCE WATSON: Hi, this is Bruce Watson.

ED TUPIN: Hey, Bruce. This is Ed Tupin  
from the Environmental Protection Agency.

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1 BRUCE WATSON: Yes, how you doing, Ed?

2 ED TUPIN: Good. How are you doing?

3 BRUCE WATSON: All right.

4 ED TUPIN: You guys kind of busy?

5 BRUCE WATSON: Yes. We have to get an  
6 email here to the Chairman in about two seconds.

7 ED TUPIN: Okay. What I was wondering,  
8 okay. Can I call you back then in like five minutes  
9 or something.

10 BRUCE WATSON: Yes.

11 MALE PARTICIPANT: We'll give you a call  
12 back. What's your number, Ed?

13 ED TUPIN: (b)(6) -

14 MALE PARTICIPANT: Okay.

15 ED TUPIN: -- (b)(6)

16 MALE PARTICIPANT: (b)(6) -

17 ED TUPIN: No, (b)(6)

18 MALE PARTICIPANT: Oh, (b)(6) sorry.

19 ED TUPIN: (b)(6)

20 MALE PARTICIPANT: Okay. Thank you.

21 ED TUPIN: Bye.

22 MALE PARTICIPANT: Bye.

23

24

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1  
2 (CONFERENCE CALL INITIATED)

3 STACEY ROSENBERG: Hello. Headquarters  
4 Operations Office.

5 CHRIS SMITH (phonetic): Hi. It's Chris  
6 Smith From Department of Energy. How are you?

7 STACEY ROSENBERG: Good. How are you?  
8 This is Stacey Rosenberg.

9 CHRIS SMITH: Hi, Stacey. So I was  
10 talking to our NERAC folks and they suggested I  
11 should touch base with you guys --

12 STACEY ROSENBERG: Great.

13 CHRIS SMITH: -- to see how things are  
14 going.

15 STACEY ROSENBERG: Okay.

16 CHRIS SMITH: And specifically --

17 STACEY ROSENBERG: Wait, let me just,  
18 can I get your name again.

19 CHRIS SMITH: Sure. Christopher Smith.

20 STACEY ROSENBERG: Okay.

21 CHRIS SMITH: I'm with our Nuclear  
22 Incident Team.

23 STACEY ROSENBERG: Okay.

24 CHRIS SMITH: And so I know largely  
25 through NERAC we've been coordinating with you guys

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1 --

2 STACEY ROSENBERG: Right.

3 CHRIS SMITH: -- on potential source  
4 terms --

5 STACEY ROSENBERG: Right.

6 CHRIS SMITH: -- smoke plots and other,  
7 a lot of (indiscernible) that we're not releasing to  
8 anybody because of the sensitivity.

9 STACEY ROSENBERG: Right.

10 CHRIS SMITH: And so I wanted to --

11 STACEY ROSENBERG: Wait a minute, I'm  
12 sorry. I can't hear. I'm sorry, what did you say?  
13 Hello?

14 CHRIS SMITH: Can you hear?

15 STACEY ROSENBERG: Yes, I can hear you  
16 now.

17 CHRIS SMITH: Okay. What part didn't  
18 you hear?

19 STACEY ROSENBERG: I pretty much didn't  
20 hear what you were saying about the modeling.

21 CHRIS SMITH: So we've been using NERAC  
22 to run some smoke plots and some other potential  
23 models with lots of assumptions and (indiscernible)  
24 source term from (indiscernible, possibly "Rascal").

25 STACEY ROSENBERG: Okay.

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1 CHRIS SMITH: And based on the outcome  
2 of the most recent Deputy's Committee we understand  
3 that models that are being done are not being  
4 released to anybody outside the Deputy's Committee.

5 STACEY ROSENBERG: Right.

6 CHRIS SMITH: However, there has been a  
7 couple questions on some of the assumptions apparent  
8 to the source term you guys provided.

9 STACEY ROSENBERG: Questions by whom?

10 CHRIS SMITH: Well they came from our  
11 representatives that went to the (indiscernible).

12 STACEY ROSENBERG: Yes, and what would  
13 you like?

14 CHRIS SMITH: Okay. So specifically,  
15 does the release fraction you're looking at take, I  
16 know it's unfiltered, does it take any credit for  
17 the reactor building?

18 STACEY ROSENBERG: The one that blew up?  
19 Is that the question?

20 CHRIS SMITH: So the source term is  
21 release fraction, does it account for any reactor  
22 vessel containers, a reduction?

23 STACEY ROSENBERG: Okay. The question  
24 is, does the release fraction take credit for any of  
25 the reactor building containment?

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1 MALE PARTICIPANT: (Indiscernible).

2 MALE PARTICIPANT: Refraction  
3 (indiscernible).

4 STACEY ROSENBERG: That DOE and NIT,  
5 what?

6 MALE PARTICIPANT: Do you have a name?

7 STACEY ROSENBERG: Chris Smith. Here  
8 I'm going to, I can put you on speaker phone. Hold  
9 on a sec.

10 Chris, are you still there?

11 CHRIS SMITH: I am.

12 STACEY ROSENBERG: Okay. So the  
13 question is, does the release fraction take any  
14 credit for reactor building having reactor building  
15 containment intact, is what you're saying?

16 CHRIS SMITH: I wouldn't say intact, but  
17 is there, so one of the cases that was run early on  
18 was, you know, the worst cased, 100 percent source  
19 term, 100 percent released.

20 And I was trying to figure out if that's  
21 released to the atmosphere or simply released  
22 available, but there is some reduction factor from  
23 the --

24 MALE PARTICIPANT: The only thing that  
25 affected that source term was the fact that we

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1 believed the reactor had been shut down for 12 or 13  
2 hours, so you had that amount of decay on the  
3 material.

4 CHRIS SMITH: Okay.

5 MALE PARTICIPANT: And that was pretty  
6 much it as far as I know.

7 CHRIS SMITH: So the assumption is the  
8 entire source term is --

9 MALE PARTICIPANT: Played out numbers  
10 or, you know, we didn't, as far as we know we didn't  
11 reduce any of the source term with that calculation.

12 CHRIS SMITH: Okay.

13 MALE PARTICIPANT: And also, those  
14 numbers were based on the surrogate model, we used  
15 Oyster Creek (phonetic) which is just about 25  
16 percent larger than the Japanese model reactor.

17 CHRIS SMITH: Okay.

18 MALE PARTICIPANT: So our doses would be  
19 a little bit higher by about that factor that we  
20 calculated. That was made clear to the people when  
21 we sent it to them.

22 CHRIS SMITH: Oh, okay. I guess I  
23 didn't catch that. And your understanding is they  
24 simply used the source term --

25 MALE PARTICIPANT: Yes, we provided them

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1 a source term, explained what we, what the  
2 assumptions we had.

3 CHRIS SMITH: Okay. But, and so to make  
4 sure I heard correctly, the source term you had is  
5 based on Oyster Creek which is approximately 25  
6 percent larger source term?

7 MALE PARTICIPANT: Right. Oyster Creek  
8 is a 620 megawatt plant electric --

9 CHRIS SMITH: Got it. (Indiscernible)  
10 470 --

11 MALE PARTICIPANT: Yes, 470 or whatever.  
12 It's slightly bigger, so the source term is  
13 slightly bigger for Oyster Creek.

14 CHRIS SMITH: Understood. All right, so  
15 the other piece of this was, you know, you guys have  
16 certainly more experience in this, given what little  
17 if any data we have on the condition of the site at  
18 the moment, is there, have you guys ever done any  
19 analysis of the, I'll say the reduction to the  
20 dispersal that a containment would provide?

21 STACEY ROSENBERG: What? I'm sorry, we  
22 didn't --

23 MALE PARTICIPANT: Can we put you on  
24 mute for a minute, we want to talk?

25 CHRIS SMITH: Sure.

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1 MALE PARTICIPANT: Are you still there?

2 STACEY ROSENBERG: Hello?

3 MALE PARTICIPANT: Still there?

4 CHRIS SMITH: I am.

5 MALE PARTICIPANT: Okay. We were just  
6 discussing what we thought your question was. And  
7 the only, I guess I'll call it dispersion was using  
8 the actual meteorology from the site, okay, got  
9 through NERAC. Is --

10 CHRIS SMITH: All right. So help me, I  
11 guess the question is, my understanding is for this  
12 system you've got a reactor vessel and associated  
13 primary piping and then you've got a secondary  
14 containment, that filter accidents?

15 MALE PARTICIPANT: That's part of the  
16 design. Is Philip Vogt (phonetic) around or John  
17 Nasstrom (phonetic)?

18 CHRIS SMITH: So, you know, Nasstrom's  
19 out and --

20 MALE PARTICIPANT: We were just trying  
21 to figure out who we were talking to earlier. Bob  
22 Gerald (phonetic)?

23 CHRIS SMITH: So Bob Gerald is here.  
24 He's tied up with something else at the moment.

25 MALE PARTICIPANT: Okay. We were going

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1 to suggest to you to kind of chat with them over  
2 these things. (b)(5)

3 (b)(5)  
4

5 CHRIS SMITH: Okay. And then, all  
6 right.

7 MALE PARTICIPANT: If you still have  
8 questions, have them call us back.

9 CHRIS SMITH: I'll work on figuring out  
10 how to go through them to ask the question, because  
11 they pointed me to you.

12 MALE PARTICIPANT: Okay. Well --

13 CHRIS SMITH: So clearly I'm going round  
14 and round. I'll work through them to get the  
15 question.

16 MALE PARTICIPANT: Okay. Thank you.

17 CHRIS SMITH: All right.  
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(CONFERENCE CALL INITIATED)

STACEY ROSENBERG: Hello. Headquarters Operations Center, Protective Measures Team.

TONY OLFUS (phonetic): Yes, this is Tony Olfus. I'm the NRC guy heading out to Japan.

STACEY ROSENBERG: Oh, Tony. Yes, hi.

TONY OLFUS: How are you doing?

STACEY ROSENBERG: This is Stacey Rosenberg.

TONY OLFUS: I have a question that's come up here and I think I know the answer, but I want to make sure I give these guys the right answer. The folks I'm with here are asking about the whether or not they need to run and get their potassium iodide pills.

And I think from what I recall, that's definitely needed within the first 24 hours of the accident and I want to confirm that before I tell them bad information.

STACEY ROSENBERG: Okay. Tony, can I put you on speaker phone?

TONY OLFUS: Yes, sure.

STACEY ROSENBERG: Okay. If I somehow lose you, just call me right back, okay?

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1 TONY OLFUS: All right. Okay, that's  
2 fine.

3 STACEY ROSENBERG: Is it this one?  
4 Tony?

5 TONY OLFUS: Yes, I got you.

6 STACEY ROSENBERG: I got the whole team  
7 here. So the question is, who wants to know about  
8 potassium iodide pills?

9 TONY OLFUS: I'm here with the  
10 (indiscernible) Search and Rescue folks and the  
11 question is, they left their KI at home and they're  
12 wondering whether they need to get it brought over,  
13 and from what I recall that stuffs only good for the  
14 first 24 hours or so, is that correct?

15 STACEY ROSENBERG: I don't think so.

16 MALE PARTICIPANT: I think it's good for  
17 a lot longer than that, but I don't think they'll  
18 need it, and if they do need it they can always get  
19 it from the Japanese.

20 TONY OLFUS: Okay. All right. So,  
21 okay. All right.

22 STACEY ROSENBERG: I think --

23 TONY OLFUS: Well I'll --

24 FEMALE PARTICIPANT: I think you should  
25 get it from the Japanese.

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1 MALE PARTICIPANT: If they're still  
2 administering it as a, you know, to their  
3 population, then yes I would say get it.  
4 (Indiscernible) --

5 TONY OLFUS: All right, so the question,  
6 sorry. Okay, all right. So that's what I'll pass  
7 along to them.

8 MALE PARTICIPANT: Yes. Be compliant  
9 with whatever their requirements are, but --

10 TONY OLFUS: Okay. Will do. Thanks for  
11 the information.

12 MALE PARTICIPANT: All right.

13 STACEY ROSENBERG: Sure.

14 TONY OLFUS: All right. Bye.

15 STACEY ROSENBERG: Bye-bye.  
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17  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Kathryn Brock.

4 FEMALE PARTICIPANT: Should I push the  
5 button again?

6 FEMALE PARTICIPANT: Hold on one second,  
7 Kathryn, we're trying to transfer this guy to you.

8 KATHRYN BROCK: Okay. Hey guys, DOEs on  
9 the line.

10 MALE PARTICIPANT: Okay. Are you  
11 putting it on speaker phone?

12 KATHRYN BROCK: I'm looking, where is  
13 it? Where the hell is it? That should be it.

14 MALE PARTICIPANT: Can we talk?

15 KATHRYN BROCK: Not yet. Karen  
16 (phonetic) was transferring, but it should be --

17 MALE PARTICIPANT: We've got work with  
18 (indiscernible), right?

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: So they're looking  
21 for some information.

22 MALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: So if (indiscernible)

24 --

25 KATHRYN BROCK: We got a call coming

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1 from International, too in a half hour. A lot of  
2 people looking for info.

3 MALE PARTICIPANT: So you want me to  
4 send this fellow over to you? Because we basically  
5 put him off because we don't have any info that we  
6 can share.

7 KATHRYN BROCK: That's our message, too,  
8 here is that we're not sharing --

9 MALE PARTICIPANT: Yes, we should talk  
10 to him. We should coordinate with them.

11 MALE PARTICIPANT: That's what I was  
12 thinking is --

13 MALE PARTICIPANT: I'll talk to him.

14 MALE PARTICIPANT: Okay.

15 KATHRYN BROCK: All right.

16 MALE PARTICIPANT: We may not have a lot  
17 to tell him, but at least they're talking to the  
18 right folks --

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: -- instead of  
21 talking to the (indiscernible).

22 MALE PARTICIPANT: Yes, we need to  
23 establish that on our end.

24 KATHRYN BROCK: By the way we're on --

25 MALE PARTICIPANT: Anybody there? Can

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1 you hear me?

2 KATHRYN BROCK: This is NRC. Yes, that  
3 phone's better than this one.

4 MALE PARTICIPANT: This is 50?

5 KATHRYN BROCK: For 19, I don't know  
6 what this one is.

7 Who's on the line please?

8 FEMALE PARTICIPANT: Kathryn, I think  
9 I'm going to need you to hang up so I can transfer  
10 this call to you.

11 KATHRYN BROCK: Oh.  
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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: NRC.

FEMALE PARTICIPANT: Okay. Let me connect you, all right.

DAVE YOUNG: Hello?

KATHRYN BROCK: Hello.

DAVE YOUNG: Hi. This is Dave Young from DOE. Am I speaking with Kathy Brock?

KATHRYN BROCK: Yes, hi. Can you hear me okay, we're trying to figure out these silly phones?

DAVE YOUNG: I can hear you.

KATHRYN BROCK: Okay, good.

DAVE YOUNG: So we're waiting for you guys on the bridge line call, we were going to talk to NERAC about the source term.

KATHRYN BROCK: Oh, I thought we were just setting up the bridge to have it open. We didn't necessarily have anything we needed to talk about at this moment.

DAVE YOUNG: Oh, okay.

KATHRYN BROCK: We talked to NERAC and then we talked to you guys just to make a connection again and then we thought we'd leave the bridge line

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1 open for everyone so we could just tower into it  
2 when we need it.

3 Is that your understanding?

4 DAVE YOUNG: Well we can't keep it open  
5 all night. We use the bridge line for other things.

6 KATHRYN BROCK: Oh, all right.

7 DAVE YOUNG: All right. If you have  
8 anything you can give us a call here, but if you  
9 could hop on real quick I do know that NERAC has a  
10 few questions for you guys.

11 KATHRYN BROCK: Sure.

12 MALE PARTICIPANT: Okay.

13 KATHRYN BROCK: All right. And so let  
14 me make sure, what's the number?

15 DAVE YOUNG: 02 --

16 KATHRYN BROCK: That's the 245-2099?

17 DAVE YOUNG: Yes. Pin (b)(6)

18 KATHRYN BROCK: All right. I'm going to  
19 hang up with you and I'm going dial that number now.

20 DAVE YOUNG: Thank you very much.

21 KATHRYN BROCK: Thank you.

22 DAVE YOUNG: Bye.

23 KATHRYN BROCK: Bye.  
24  
25

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Kathryn Brock,  
Operations Center.

DAVE YOUNG: Hey, Kathy. This is Dave  
Young from DOE.

KATHRYN BROCK: Hey, how you doing,  
Dave?

DAVE YOUNG: I'm doing good. So I don't  
know if you've been following the news, but there's  
been a report that there's been a blast at the  
nuclear power plant at Reactor 1.

KATHRYN BROCK: Okay.

DAVE YOUNG: And that it's potentially  
completely destroyed.

KATHRYN BROCK: That what's completely  
destroyed?

DAVE YOUNG: The reactor.

KATHRYN BROCK: Oh.

DAVE YOUNG: They're reporting it on the  
Japanese news and CNN just said there has been a  
report of a blast, but they haven't gotten anything  
yet.

But we got an email from someone from  
DOE Tokyo saying that, he says, "I can only see

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1 three reactor buildings now where there were four."

2 So if you guys can, I don't know if you guys have  
3 the source term for that reactor or I don't know, a  
4 (indiscernible, possibly "final") source term that  
5 you can pass to NERAC.

6 KATHRYN BROCK: We just did five seconds  
7 ago.

8 DAVE YOUNG: Okay. Five seconds, oh,  
9 great.

10 KATHRYN BROCK: Yes. It was not the,  
11 not a scenario where things were blown to bits, it  
12 was 10 percent core melt. So let me go flash this  
13 information around. So you got the information from  
14 DOE Tokyo?

15 DAVE YOUNG: Yes. It was just like a  
16 short email saying that there was a blast heard at  
17 1700 at the Reactor Number 1 and now that --

18 KATHRYN BROCK: that was 15 minutes ago,  
19 20 minutes ago, okay.

20 DAVE YOUNG: We got this email like  
21 eight minutes ago.

22 KATHRYN BROCK: All right.

23 DAVE YOUNG: Yes, CNN just said  
24 something about it. Not completely for sure, they  
25 just said they heard, they got a blast.

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1 KATHRYN BROCK: Okay.

2 DAVE YOUNG: People heard a blast there,

3 (b)(5)

4 KATHRYN BROCK: All right. Well thank  
5 you.

6 DAVE YOUNG: Okay.

7 KATHRYN BROCK: All right. And, yes, I  
8 guess I was going to call you in a second anyway  
9 just to let you know that we talked to NERAC and  
10 they're going to be doing the run.

11 DAVE YOUNG: Okay.

12 KATHRYN BROCK: All right.

13 DAVE YOUNG: What's your email address  
14 and I could just --

15 KATHRYN BROCK: pmt2@nrc.gov. Is that  
16 right?

17 MALE PARTICIPANT: Yes.

18 DAVE YOUNG: pmt2@ --

19 KATHRYN BROCK: nrc.gov.

20 DAVE YOUNG: nrc.gov

21 KATHRYN BROCK: Yes.

22 DAVE YOUNG: Okay.

23 KATHRYN BROCK: If you can send those  
24 emails that would be cool. I don't know if you can  
25 do that.

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1 DAVE YOUNG: (Indiscernible).  
2 KATHRYN BROCK: Okay.  
3 DAVE YOUNG: I'll ask and we'll see what  
4 we can do, all right.  
5 KATHRYN BROCK: Oh, hang on, hang on.  
6 What is it again?  
7 FEMALE PARTICIPANT: pmt02.hoc. --  
8 KATHRYN BROCK: pmt02.hoc@nrc.gov, sorry  
9 about that.  
10 DAVE YOUNG: Okay.  
11 KATHRYN BROCK: Okay, thanks.  
12 DAVE YOUNG: All right. Thank you.  
13 KATHRYN BROCK: Bye.  
14 DAVE YOUNG: Bye.  
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UNITED STATES OF AMERICA  
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SUNDAY,  
MARCH 13, 2011

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(CONFERENCE CALL INITIATED)

BRUCE WATSON: Yes, this is the NRC Operations Center, the Protective Measures team. This is Bruce Watson.

SEAN GALLAGHER (phonetic): Yes, hi. This is Sean Gallagher (phonetic) down at the NFC. A quick question, if you're not crashing on something.

BRUCE WATSON: Okay.

SEAN GALLAGHER: I'm getting a little bit of data pushed over to me from DoD about some measurements that they've made on the Ronald Reagan ship.

BRUCE WATSON: Right.

SEAN GALLAGHER: Have you guys gotten all those back?

BRUCE WATSON: Yes, we had a call with a, where did my sheet go, Rick Lentz.

SEAN GALLAGHER: Okay.

BRUCE WATSON: And he basically gave us some data from about 7:30 this morning to 10:30.

SEAN GALLAGHER: Okay. So --

BRUCE WATSON: Okay? Some air sample and some direct measurements of a, looked like there must be some kind of a cloud overhead.

SEAN GALLAGHER: Okay, got you. All right.

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1 My first objective was to make sure that you guys were  
2 all connected and that it was getting there. Okay, great.

3 So second question, what I'm hearing, 1 millirad closed  
4 windows, 2 millarads open window on the ship.

5 And 130 nautical miles out, I'm not a health  
6 physicist, but I am a reactor guy and that sounds like  
7 sounds like pretty high for 130 nautical miles out.

8 BRUCE WATSON: Well we looked at it and,  
9 you know, let's say they're 100 miles offshore.

10 SEAN GALLAGHER: Yes, okay.

11 BRUCE WATSON: And the wind's been blowing  
12 at about five miles an hour. And so this may be  
13 representative of some of the venting they did yesterday.

14 SEAN GALLAGHER: Okay.

15 BRUCE WATSON: You know, 24 hours ago.  
16 That's the only thing we can speculate on.

17 SEAN GALLAGHER: Okay, all right.

18 BRUCE WATSON: Okay? I mean, we suspected  
19 some kind of noble gas cloud that's overhead.

20 SEAN GALLAGHER: Okay, okay. Well, I mean  
21 certainly --

22 BRUCE WATSON: I mean, they're actually  
23 getting an actual measurement, so we can't say it's --  
24 you know, and they keep confirming it. But they took  
25 some air samples and we've asked them to confirm the

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1 nuclides in it.

2 SEAN GALLAGHER: Right, right.

3 BRUCE WATSON: Okay?

4 SEAN GALLAGHER: Okay.

5 BRUCE WATSON: So that's the only thing we  
6 can speculate. And it's not unreasonable to think that  
7 some of the longer lived noble gases would still be around  
8 after 24 hours.

9 SEAN GALLAGHER: Yes, yes. No, no.  
10 Completely understand that. I guess I was just worried  
11 that the source term might have been higher than --

12 BRUCE WATSON: Well, that's the thing we  
13 don't know because we don't know the duration of the  
14 event and we don't know what the actual condition of  
15 the core was.

16 SEAN GALLAGHER: Exactly.

17 BRUCE WATSON: You know, we just don't know.

18 SEAN GALLAGHER: Okay.

19 BRUCE WATSON: So the only thing we could  
20 do is get some isotopics which they say will take about  
21 six hours because they had to send it to a lab on the  
22 mainland, or on Japan.

23 SEAN GALLAGHER: Got you, okay.

24 BRUCE WATSON: And you know, the only reason  
25 we'll know if there's any fuel problems is if we start

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1 seeing iodine in it or something.

2 SEAN GALLAGHER: Yes.

3 BRUCE WATSON: Okay? Other than that, I  
4 mean, we're all pretty much speculating at this point  
5 on what we're seeing. But it kind of fits with yesterday's  
6 venting, you know, of the containments.

7 SEAN GALLAGHER: Okay, all right. No,  
8 that's very useful. Thank you. The other things, just  
9 so you have those at the end of the --

10 BRUCE WATSON: Yes.

11 (Crosstalk)

12 SEAN GALLAGHER: -- downtown.

13 BRUCE WATSON: We're not going to put it  
14 in the gospel. But that's what we believe it probably  
15 is. Okay?

16 SEAN GALLAGHER: Yes, no, no. Appreciate  
17 that. And then you're incorporating that into the new  
18 plume modeling that will eventually be sent out?

19 BRUCE WATSON: Well, the problem that we  
20 have is that our plume modeling doesn't go out 100 miles.

21 SEAN GALLAGHER: Oh.

22 BRUCE WATSON: So we're looking at 50 miles  
23 and trying to project.

24 SEAN GALLAGHER: That's right. Trying to  
25 extrapolate from there. I understand.

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1 BRUCE WATSON: Okay?

2 SEAN GALLAGHER: Okay, and then the last  
3 thing is just that you have visibility, but we're, you  
4 know, (b)(5)

5 (b)(5)  
6

7 BRUCE WATSON: Well, I think that was going  
8 to be handled here.

9 SEAN GALLAGHER: Okay.

10 BRUCE WATSON: Yes, we had one of our  
11 briefings that, between the Navy and us, I think we were  
12 going to tell them to wash the decks down or something.  
13 But we don't know where they were, either.

14 SEAN GALLAGHER: Okay, okay.

15 BRUCE WATSON: We know they were around.  
16 We don't know where, whether they were in close to shore  
17 or not. Okay?

18 SEAN GALLAGHER: All right, sounds good.  
19 Thank you so much for that update. I'll let you get  
20 back to crunching the data.

21 BRUCE WATSON: Yes. We had asked for some  
22 updated MET data a little while ago. So we would like  
23 to have that because it looks like we're going to continue  
24 to have issues with Unit 1 and Unit 3.

25 SEAN GALLAGHER: Yes, I know. Okay.

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BRUCE WATSON: Okay?

SEAN GALLAGHER: All right, thank you very  
much.

BRUCE WATSON: Yes.

SEAN GALLAGHER: Okay, take care. Bye.

BRUCE WATSON: Bye.

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(CONFERENCE CALL INITIATED)

LOU (phonetic): Hello, NRC. This is Lou (phonetic)

HEADQUARTERS OPERATIONS OFFICER: Hey Lou, this is Bill Beal on the line here. This is Headquarters Operations Officer. I'll connect him through, okay?

LOU: Very good, okay.

HEADQUARTERS OPERATIONS OFFICER: Here he is.

LOU: Hello, Bill.

BILL BEAL: Hey, this is Bill.

LOU: This is Lou.

BILL BEAL: Lou, hey. So no sooner did I get off the phone that (b)(5)

(b)(5)

(b)(5)

LOU: Okay. You know, that RASCAL run will characterize the worst case.

BILL BEAL: Hold on a sec. No, this is Lou.

LOU: I put you on speaker phone. Can you

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1 hear me okay?

2 BILL BEAL: Yes, yes.

3 LOU: That RASCAL case will characterize  
4 worst case, but for a real situation, it's much likely  
5 to be a lower impact than that.

6 BILL BEAL: Oh, right, right, right. Okay.  
7 So actually, I told Brenda to call into the bridge line.  
8 Can you call in, can I give you the number for the Net  
9 Ops bridge line and the three of us can talk?

10 LOU: Okay.

11 BILL BEAL: It's 202, you ready?

12 LOU: Yes, 202.

13 BILL BEAL: 245.

14 LOU: 245.

15 BILL BEAL: 2099.

16 LOU: 2099.

17 BILL BEAL: And the pin is (b)(6)

18 LOU: (b)(6) All right, we'll call you back  
19 on that and we can all talk to you.

20 BILL BEAL: Okay great, thanks.

21

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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center, Greg  
Casto.

HEADQUARTERS OPERATIONS OFFICER: Hi, Greg.  
Headquarters Ops Officer. I have Dave Young from DOE?

GREG CASTO: Yes.

HEADQUARTERS OPERATIONS OFFICER: Okay.  
Connecting him how.

GREG CASTO: You bet.

DAVE YOUNG: Hello?

GREG CASTO: Dave, this is Greg.

DAVE YOUNG: Hey, Greg. How's it going?

GREG CASTO: Pretty good. You calling back  
to say you haven't gotten it yet?

DAVE YOUNG: Yes, I am.

GREG CASTO: Okay. Let me, I'm going to  
go track it down then. I know the ET just did a review  
of the bios a little while ago. So it should have been  
sent out by now.

DAVE YOUNG: Oh, we just got something.

GREG CASTO: You just got it?

DAVE YOUNG: Yes, it looks like we just got  
something.

GREG CASTO: Okay, good. Okay. I can hold

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1 if you want to check, make sure it's what you need.

2 DAVE YOUNG: No, it's perfect. Looks good.

3 GREG CASTO: Does that work for you?

4 DAVE YOUNG: Very much appreciated. Yes.

5 GREG CASTO: All right, okay. Thank you.

6 Bye.

7 DAVE YOUNG: Thank you, bye.

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(CONFERENCE CALL INITIATED)

RICK LENTZ (phonetic): Naval Reactors.

STEVEN LAVIE: Yes, my name is Steven Lavie with the U.S. Nuclear Regulatory Commission Incident Response Center.

RICK LENTZ: Hi.

STEVEN LAVIE: I was trying to contact a Rick Lentz (phonetic)?

RICK LENTZ: You have him.

STEVEN LAVIE: Rick, I've taken over for the team that was on during the day. And my relief included a note that the Navy was looking for some data and that we were looking for some data from the Navy.

And I wanted to follow up on you and get clarification of what it is you're looking for. And I understand you were going to get some isotopic samples and whether or not, or some samples taken on the Ronald Reagan, and whether or not that data's available yet.

RICK LENTZ: Okay. We are getting an isotopic analysis done on a wipe off of an aircraft that landed at (indiscernible, possibly "Sugi"), Japan.

And we should be getting those results imminently. As far as data we were looking for from you all, one second.

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1 (Pause)

2 RICK LENTZ: We have not specifically asked  
3 for any information from you. All we're asking is that  
4 any data that we have provided you gets passed on to  
5 the Embassy for dissemination to the government of Japan  
6 as appropriate. So if you could, could you validate  
7 that's being done?

8 STEVEN LAVIE: I will certainly try. This  
9 is (indiscernible). This is a new thing I just heard  
10 now.

11 RICK LENTZ: Okay.

12 STEVEN LAVIE: What you're saying is  
13 anything you pass to us, you would like to be passed  
14 on to the U.S. Embassy?

15 RICK LENTZ: Yes. My chain of command is  
16 asking that any information we pass through the Operation  
17 Center gets passed on to the U.S. Embassy, and that they  
18 would utilize that for dissemination to the government  
19 of Japan as appropriate.

20 STEVEN LAVIE: Okay. I will certainly take  
21 that up. If I have a problem, I'll get back to you.

22 RICK LENTZ: Okay.

23 STEVEN LAVIE: I don't think I should have  
24 a problem, but I haven't tried to run this down.

25 RICK LENTZ: Sure. The only other thing

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1 for you is, like I said, we're getting the isotopic analysis  
2 done on that rag. That should be done here shortly.  
3 Or we should have the results here shortly, that is.

4 And we're also getting some contamination  
5 top side on ship and internal to the ship, the Ronald  
6 Reagan. But I don't know if that's going to be of any  
7 use to you all.

8 STEVEN LAVIE: Right. Can I ask you a  
9 question, Rick? The folks that you have doing these  
10 surveys on the Ronald Reagan, are they from the nuclear  
11 group?

12 RICK LENTZ: The folks that are doing the  
13 surveys on the Ronald Reagan are nuclear trained  
14 operators.

15 STEVEN LAVIE: Excellent.

16 RICK LENTZ: So it is reliable data.

17 STEVEN LAVIE: Yes, they're not running  
18 around with CDD 700s or something.

19 RICK LENTZ: Right.

20 STEVEN LAVIE: Okay. Hold on the line for  
21 just a minute.

22 RICK LENTZ: Sure.

23 (Pause)

24 STEVEN LAVIE: Go ahead, ask.

25 DWAYNE SCHMIDT (phonetic): This is Dwayne

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1 Schmidt (phonetic) on the team here. I had been on the  
2 line when you gave us some of that earlier data with  
3 the air measurements and gamma measurements on the Ronald  
4 Reagan.

5 RICK LENTZ: Yes.

6 DWAYNE SCHMIDT: Were there additional  
7 measurements, you know, were you all continuing to make  
8 measurements?

9 RICK LENTZ: We did continue. I'll tell  
10 you what, why don't I pass you on to the guy I had at  
11 my table, who's been collating all the data that we have.  
12 And you guys can compare notes. I think I gave you most  
13 everything, but there might be a couple extra data points  
14 that you didn't get.

15 DWAYNE SCHMIDT: Okay, Rick. Well thank  
16 you for your help.

17 STEVEN LAVIE: What's your direct line  
18 there?

19 RICK LENTZ: The direct line to his phone  
20 is 5985.

21 STEVEN LAVIE: And that's 202-781?

22 RICK LENTZ: Yes.

23 STEVEN LAVIE: Okay. We'll give him a call.  
24 Thank you for your help.

25 RICK LENTZ: Yes, take care. Bye.

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(CONFERENCE CALL INITIATED)

JAMES WALDREP: James Waldrep.

STEVE LAVIE: Yes, this is Steve Lavie from the NRC. Rick Lentz gave us your number and suggested we call you.

JAMES WALDREP: Yes.

STEVE LAVIE: It's in response center at the NRC.

JAMES WALDREP: Right. Yes, he told me you would be calling. He did not know what the last data point was that you had.

STEVE LAVIE: Okay.

DWAYNE SCHMIDT: This is Dwayne Schmidt on the team here. What I had in mine as the last data point was 1000 zulu time, and that was a single exposure measurement, dose rate measurement.

STEVE LAVIE: .6 miliram an hour.

JAMES WALDREP: Is that direct gamma, okay?

DWAYNE SCHMIDT: Direct gamma.

JAMES WALDREP: Let's see what we've gotten since then. We've got confirmation of loose service contamination on the flight deck. So we've got several surveys taken at 1421 zulu.

And I'm going to give it to you in corrected

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1 counts per minute. This is what the DT304 frisker probe.  
2 The 1,300 corrected counts per minute, 500 corrected  
3 counts per minute, and the 300 corrected counts per minute  
4 on various surfaces, including (indiscernible, possibly  
5 "burcle") surfaces.

6 STEVE LAVIE: And these were direct swipes,  
7 direct readings?

8 JAMES WALDREP: I believe they are direct  
9 readings.

10 STEVE LAVIE: Isn't the Navy using E 140's?  
11 Do you know what the instrument they use for that?

12 JAMES WALDREP: I believe this was a DT 304,  
13 that would be a --

14 STEVE LAVIE: Pancake probe?

15 JAMES WALDREP: Yes.

16 STEVE LAVIE: You're talking about a ten  
17 percent efficiency, about?

18 JAMES WALDREP: Yes, yes it is.

19 STEVE LAVIE: Okay.

20 JAMES WALDREP: It's a 20 square meter frisk  
21 area. And do you need the actual location the ship was  
22 at that time?

23 STEVE LAVIE: We're just trying to get a  
24 feel for what, and some of that may have been from, we  
25 understand some of the helicopters were coming in with

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1 contaminated pads?

2 JAMES WALDREP: That's true. There were  
3 some surveys of the helicopters that had detectible.

4 STEVE LAVIE: So this may not be followed.

5 JAMES WALDREP: May not be. I'll tell you,  
6 some of these surveys were on vertical surfaces.

7 STEVE LAVIE: Surfaces.

8 JAMES WALDREP: So some of it may have been  
9 just tracked by individuals from the helos, but I don't  
10 think all of it was.

11 STEVE LAVIE: Okay. So that's the only  
12 additional data points?

13 JAMES WALDREP: I'm trying to figure out.  
14 You've got the last positive portable air sample that  
15 we have. We got a confirmation of no detectible at 1740  
16 zulu time.

17 STEVE LAVIE: And that was non detectible?

18 DWAYNE SCHMIDT: Do you have coordinate  
19 locations on that one? We might as well get that if  
20 you have it.

21 JAMES WALDREP: Yes, let me pull that up  
22 here.

23 STEVE LAVIE: What are the coordinates based  
24 on?

25 DWAYNE SCHMIDT: I made a lat/long list.

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1 STEVE LAVIE: Oh, like longitude latitude?

2 DWAYNE SCHMIDT: With where the ship was  
3 at, because they're moving.

4 JAMES WALDREP: And that one, sorry I don't  
5 have lat/long. But that is 71 nautical miles due west  
6 of the town of Miyako, M-I-Y-A-K-O, at 257 degrees.  
7 For some reason, they didn't give me the lat/long on  
8 that data point.

9 DWAYNE SCHMIDT: Okay.

10 STEVE LAVIE: Okay. You have our contact  
11 information? We understand there's some isotopic data  
12 will be coming in shortly, or imminently or whatever?

13 JAMES WALDREP: And I actually think it just  
14 showed up on the fax. We just haven't had time to --

15 STEVE LAVIE: Yes, and I don't want to rush  
16 you. But you have contact information you can provide  
17 that over?

18 JAMES WALDREP: Mr. Lentz may have it, but  
19 it would probably be best if you give it to me.

20 STEVE LAVIE: Okay. My name is Lavie,  
21 L-A-V-I-E, Steven, Nuclear Regulatory Commission. And  
22 the number here is area code 301-816-5415.

23 JAMES WALDREP: Okay, 301-816-5415, and you  
24 want me to put it to attention Levie?

25 STEVE LAVIE: Right.

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1 JAMES WALDREP: Steven?

2 STEVE LAVIE: Yes.

3 JAMES WALDREP: Okay. And --

4 STEVE LAVIE: I'm pretty sure that's a direct  
5 dial. If it isn't a direct dial and you get an operator  
6 asking, ask for the protective measures team, and they'll  
7 patch you through.

8 JAMES WALDREP: Okay, so you just want me  
9 to call you back and --

10 STEVE LAVIE: When you have it. I don't  
11 want to rush you. It would be useful for us to try to  
12 get a feel for whether we're dealing with a lot of iodine  
13 or anything else weird.

14 JAMES WALDREP: Okay.

15 DWAYNE SCHMIDT: Now let me follow up with,  
16 Rick mentioned something that I don't think we had heard  
17 earlier. Or if you guys did tell us, it slipped by the  
18 wayside is that apparently you want us to notify the  
19 U.S. Embassy of any of this data you're giving us?

20 JAMES WALDREP: I've only overheard  
21 discussions with that. I'll say we were not directly  
22 providing any information to the U.S. Embassy. We thought  
23 the NRC or DOE was the central point of contact. So  
24 I can get Lentz if you want to talk through with him  
25 on that. All I've got's the data.

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1 STEVE LAVIE: We want to be cooperative if  
2 he made the request. But at the same time, I'm not as  
3 sure we ought to be telling the Embassy anything with  
4 the data that's -- while it's an actual measurement,  
5 it can't be correlated with anything.

6 JAMES WALDREP: Okay. Yes, let me get him  
7 for you.

8 STEVE LAVIE: Okay. Thank you.

9 JAMES WALDREP: Rick.

10 (Pause)

11 RICK LENTZ: Lentz.

12 STEVE LAVIE: Yes, this is Steve Lavie from  
13 the NRC again, Rick. I wanted to follow up, Rick, on  
14 the statement you made that you requested that we provide  
15 the information to the U.S. Embassy?

16 RICK LENTZ: The request came from the Deputy  
17 Director of our program talking to the NRC. And the  
18 expectation was that data we were providing to the NRC  
19 would be passed to the U.S. Embassy from the NRC and  
20 not directly from us.

21 So you probably ought to talk to your chain  
22 of command because I'm sure somebody there is aware of  
23 the request.

24 STEVE LAVIE: (b)(5)

25 (b)(5)

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1 in trouble?

2 RICK LENTZ: (b)(5)

3 (b)(5)

4  
5 STEVE LAVIE: Yes.

6 RICK LENTZ: (b)(5)

7 (b)(5)

8 STEVE LAVIE: Okay. I understand the big  
9 picture now.

10 RICK LENTZ: Okay.

11 STEVE LAVIE: (b)(5)

12 (b)(5)

13 RICK LENTZ: Oh, I agree. I would expect  
14 the communication to the Embassy would also come with  
15 some level of prospective from the NRC.

16 STEVE LAVIE: Right, yes. We're not exactly  
17 sure we can put a whole lot of perspective on this, other  
18 than provide the raw data. But that's one of the reasons  
19 I asked you the question about the efficiency of the  
20 -- well I asked, the other gentleman's name was Tom?

21 RICK LENTZ: Okay.

22 STEVE LAVIE: Rick?

23 RICK LENTZ: I'm sorry, Tom, who?

24 STEVE LAVIE: The gentleman we were talking  
25 to just a few minutes ago, you asked us --

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1 RICK LENTZ: James Waldrep.

2 STEVE LAVIE: Walter?

3 RICK LENTZ: Waldrep. He works for me.

4 STEVE LAVIE: What was the last name,  
5 D-R--I-P?

6 RICK LENTZ: Waldrip, W-A-L-D-R-E-P.

7 STEVE LAVIE: Okay, thank you.

8 RICK LENTZ: Yes.

9 STEVE LAVIE: Okay, well thank you for your  
10 help.

11 RICK LENTZ: (b)(5)

12 (b)(5)

13

14

15 I mean, the Embassy can pass information  
16 on to the Japanese government and the Japanese government  
17 should have plenty of capability to assess the data  
18 themselves. I mean, they have expertise.

19 STEVE LAVIE: Okay.

20 RICK LENTZ: So, I mean, you guys need to  
21 coordinate how you want to do that.

22 STEVE LAVIE: Okay.

23 RICK LENTZ: All right?

24 STEVE LAVIE: We'll do that at our end.

25 Well than you, sir. (b)(5)

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1 (b)(5)

2 RICK LENTZ: I understand. Like I said,  
3 our Deputy Director, I'm not sure who he was talking  
4 to in your chain of command. I'm sure it was --

5 STEVE LAVIE: He was talking to someone here?

6 RICK LENTZ: Yes.

7 STEVE LAVIE: Okay, then I'll have to run  
8 it down on our end. We thought this report was coming  
9 from the Navy, which we thought was a little odd that  
10 you would be asking us to send your data. But --

11 RICK LENTZ: It's coming from Naval Reactors  
12 who represents the Navy.

13 STEVE LAVIE: But you've already cleared  
14 this with our management. I'm going to try to track  
15 that down.

16 RICK LENTZ: Okay.

17 STEVE LAVIE: Well thank you very much, Rick,  
18 for your help.

19 RICK LENTZ: Thank you. Bye.  
20  
21  
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23  
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(CONFERENCE CALL INITIATED)

LOURDES (phonetic): NARAC, this is Lourdes  
(Phonetic).

STEVE LAVIE: Yes, this is Steve Lavie from  
the NRC Incident Response Center.

LOURDES: Hi, Steve.

STEVE LAVIE: How you doing? What was your  
name again?

LOURDES: This is Lourdes.

STEVE LAVIE: Lodis (phonetic)?

LOURDES: Yes.

STEVE LAVIE: Like the flower? Okay. Well  
nice to talk to Lodis, I've never heard of that. We would  
like to get some MET data.

LOURDES: And Steve, who are you with? I'm  
sorry.

STEVE LAVIE: The Nuclear Regulatory  
Commission, the Incident Response --

LOURDES: NRC?

STEVE LAVIE: Yes, NRC. I'm now taken over  
for the team here this afternoon. And apparently there  
was a request made to get some actual meteorological  
data as of midnight last night. And we're going to put  
a kind of a where did it go, can we get it type of thing.

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1                   LOURDES: Oh, yes. How do you spell your  
2 last name, Steve?

3                   STEVE LAVIE: L-A-V-I-E.

4                   LOURDES: I-E?

5                   STEVE LAVIE: Yes. C'est la vie, French.

6                   LOURDES: Okay, so you don't have a NARAC  
7 account, is that correct?

8                   STEVE LAVIE: No.

9                   LOURDES: Okay.

10                  STEVE LAVIE: We were talking to Brenda last  
11 night when I was in.

12                  LOURDES: Oh, just one minute, Steve.

13                  STEVE LAVIE: Oh, okay.

14                  LOURDES: Thank you.

15                  (Pause)

16                  BRENDA: Hello, this is Brenda.

17                  STEVE LAVIE: Brenda, this is Steve Lavie.  
18 We talked last night. NRC.

19                  BRENDA: Okay.

20                  STEVE LAVIE: And apparently the guys last  
21 night, after I left, well this morning I guess, made  
22 a request to get some MET data?

23                  BRENDA: Yes, and we're working on it right  
24 now.

25                  STEVE LAVIE: And can we get it, could you

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1 get it soon? Okay, because the Navy has asked us for  
2 it, as well.

3 BRENDA: The Navy's asking you for the MET?

4 STEVE LAVIE: Yes, because apparently they  
5 came up with some data from an aircraft carrier this  
6 morning.

7 BRENDA: Yes.

8 STEVE LAVIE: And they wanted us to get back  
9 with them so they could do a couple of little assessments  
10 on their own.

11 BRENDA: Yes.

12 STEVE LAVIE: Obviously, we give it to them  
13 with the caveat that this is not for distribution, et  
14 cetera, et cetera, et cetera.

15 BRENDA: Right.

16 STEVE LAVIE: But since they were good enough  
17 to give us the first actual measurements we've gotten  
18 --

19 BRENDA: I know you're very excited about  
20 that.

21 STEVE LAVIE: We're very excited about it.

22 BRENDA: Yes.

23 STEVE LAVIE: So whenever you can get that  
24 to us. Email it to -- Lou Bren (phonetic) is no longer  
25 here.

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1 BRENDA: Okay.

2 STEVE LAVIE: So who do we want to --

3 BRENDA: Right, because he's the night shift,  
4 right. So when we email it, we email it to the HOO.hoc.

5 STEVE LAVIE: Oh, that's where you've been  
6 emailing it?

7 BRENDA: Yes.

8 STEVE LAVIE: Continue to use that then.

9 BRENDA: Okay, so that will work for you  
10 guys, right?

11 STEVE LAVIE: Yes. They'll bring it in to  
12 us.

13 BRENDA: Okay, I'll double check with this  
14 shift and make sure that's where they're sending it.

15 STEVE LAVIE: Okay, Brenda.

16 BRENDA: Okay?

17 STEVE LAVIE: And are you on now for the  
18 rest of the evening?

19 BRENDA: I'm on until 10 o'clock Pacific  
20 tonight.

21 STEVE LAVIE: Okay.

22 BRENDA: Hang on, John wants to talk.

23 STEVE LAVIE: Oh sure, sure.

24 JOHN NAASSTROM: Yes, this is John Naasstrom.  
25 We did have some problems with sending to HOO.hoc.

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1 STEVE LAVIE: Oh, that's why we haven't got  
2 it.

3 JOHN NAASSTROM: The files were so large.

4 STEVE LAVIE: Oh.

5 JOHN NAASSTROM: Okay, oh okay, it's the  
6 MET. Yes, okay. So they were some large files that we  
7 tried to send earlier, and they were bouncing.

8 STEVE LAVIE: Can they be broken up into  
9 --

10 JOHN NAASSTROM: I just wanted to make sure  
11 it wasn't about that. Okay. I'll give you back to Brenda.

12 STEVE LAVIE: Okay, thank you. Hello,  
13 Brenda. Oh, you're there.

14 BRENDA: Okay, send it to HOO.hoc. Okay.  
15 I'm getting him to send it to the right email, so you'll  
16 see it here in a minute.

17 STEVE LAVIE: Okay. Well, that's something  
18 we definitely appreciate. And we'll be talking again.  
19 You have our number here, correct?

20 BRENDA: Yes, I do.

21 STEVE LAVIE: Excellent. Have a good  
22 evening. Hope it'll be quiet.

23 BRENDA: Yes, no kidding. All right, thank  
24 you.

25 STEVE LAVIE: Bye now.

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BRENDA: Bye bye.

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(CONFERENCE CALL INITIATED)

LOURDES: NARAC, this is Lourdes.

STEVE LAVIE: Yes, this is Steven Lavie from  
the NRC's Nuclear Incident Response Center.

LOURDES: Yes.

STEVE LAVIE: Are you the person on duty  
tonight?

LOURDES: I'm answering the phones. Can  
I help you?

STEVE LAVIE: Oh, yes. We just wanted to  
touch base with our colleagues there at NARAC because  
most of the day we've been communicating back and forth,  
and it's been rather, rather quiet here tonight. And  
I just want to let them know we're here, but we haven't  
had a need to send you anything.

LOURDES: Oh, okay. And Steve, your last  
name is?

STEVE LAVIE: Lavie, L-A-V-I-E.

LOURDES: Just one minute, please. Thank  
you.

STEVE LAVIE: Sure, thank you.

(Pause)

LOURDES: Steve?

STEVE LAVIE: Yes.

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1                   LOURDES: Thank you for calling. No, we're  
2 okay now.

3                   STEVE LAVIE: Okay.

4                   LOURDES: And we just added to the log showing  
5 that the shift change has occurred and that you called  
6 in.

7                   STEVE LAVIE: Okay.

8                   LOURDES: Okay?

9                   STEVE LAVIE: Thank you very much for your  
10 help.

11                   LOURDES: Thanks, Steve.

12                   STEVE LAVIE: Have a good evening.

13                   LOURDES: Thanks for calling.

14                   STEVE LAVIE: Bye, now.

15                   LOURDES: Bye.

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(CONFERENCE CALL INITIATED)

JOHN HALRIS (phonetic): (Indiscernible)

STEVE LAVIE: Yes, is this Tom, I think it's Waldrick?

JOHN HALRIS: No, he's been relieved. This is John Halris.

STEVE LAVIE: Oh, okay. And are you his relief?

JOHN HALRIS: Yes.

STEVE LAVIE: Okay. My name is Steven Lavie from the Nuclear Regulatory Commission Incident Response Center. And we just wanted to touch base with you, it's rather been quiet here. You guys were supposed to be getting some isotopic data from air samples?

JOHN HALRIS: I believe we had sent that out to you guys.

STEVE LAVIE: We got isotopic data from the smear samples.

JOHN HALRIS: Okay.

STEVE LAVIE: Were there data coming in on air samples, or did we misunderstand the original --

JOHN HALRIS: You got the -- sorry, what did you guys get?

STEVE LAVIE: We got the analysis results

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1 for the three smear samples. One was taken on an Orion  
2 P3, another one was taken on, was it a sea something,  
3 I think.

4 JOHN HALRIS: Seahawk?

5 STEVE LAVIE: Seahawk. Two locations, a  
6 stabilizer and on the door.

7 JOHN HALRIS: Okay, stabilizer, door.

8 STEVE LAVIE: And the Orion. It didn't  
9 specify where that was taken.

10 JOHN HALRIS: P3 Orion, right? Okay. I  
11 believe that's all the data we have. You're looking  
12 for airborne?

13 STEVE LAVIE: Yes. They mentioned earlier  
14 they were sending an airborne sample for isotopic.

15 JOHN HALRIS: Okay. I'll look into that.  
16 Can I get your number to call you back?

17 STEVE LAVIE: Yes. My number here is 301

18 --

19 JAMES WALTER: 301.

20 STEVE LAVIE: 816.

21 JOHN HALRIS: 816.

22 STEVE LAVIE: 5415.

23 JOHN HALRIS: 5415. And you're looking for  
24 isotopic on airborne sample?

25 STEVE LAVIE: Right. And if you get somebody

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1 answering the phone, ask to be transferred through to  
2 the protective measures team.

3 JOHN HALRIS: Protective measures team?

4 STEVE LAVIE: Yes.

5 JOHN HALRIS: Got it.

6 STEVE LAVIE: Okay, well thank you for your  
7 help.

8 JAMES WALTER: Thank you.

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2 (CONFERENCE CALL INITIATED)

3 STEVE LAVIE: Protective Measures Team.

4 OPERATOR: Hey, Protective Measures, I got  
5 Alan Denco (phonetic) at Nav C (phonetic) on the other  
6 line. I'm going to connect them.

7 STEVE LAVIE: Go ahead.

8 (Pause)

9 STEVE LAVIE: Yo, this is Steve Lavie with  
10 the DMC team.

11 ALAN DENCO (phonetic): Oh, hey Steve.

12 STEVE LAVIE: What's your name again?

13 ALAN DENCO: Alan Denco.

14 STEVE LAVIE: Alan Denco. Pleased to talk  
15 with you.

16 ALAN DENCO: Pleased to talk to you. My  
17 radiological control guys couldn't get back to you because  
18 the number didn't work. So he --

19 STEVE LAVIE: Okay.

20 ALAN DENCO: I'm the ECC coordinator, so  
21 I'm helping him out. And the report that he wanted me  
22 to pass on was that the isotopic airborne sample data  
23 is not available.

24 STEVE LAVIE: Not available? Okay.

25 ALAN DENCO: And now is there a better number

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1 for later on than 5415?

2 STEVE LAVIE: I'll give you this one, it's  
3 301-816-5419.

4 ALAN DENCO: Okay, I'll pass that on to him.

5 STEVE LAVIE: I believe this is a direct  
6 line.

7 ALAN DENCO: Okay. Okay?

8 STEVE LAVIE: Okay, well thank you very much  
9 for your help, Alan.

10 ALAN DENCO: Okay, Steve. Bye.

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**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Japan's Fukushima Daiichi  
PMT RAAD ASST DIRECTOR Audio Files

Docket Number: N/A

Location: N/A

Date: Monday, March 14, 2011

Work Order No.: NRC-4222

Pages 1-43

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI  
PMT RAAD ASST DIRECTOR AUDIO FILES

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MONDAY,  
MARCH 14, 2011

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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: You have reached the office of Brian Sheron, Director, and Jennifer Ewell, Deputy Director, Office of Nuclear Regulatory Research. Please leave your name, number and short message and your call will be returned.

KATHY BROCK: Hi, there. This is Kathy Brock. I'm calling from the Operation Center and I was hoping to get some help from the Office of Research looking up some data. So could you please have Brian or Jennifer, or someone to represent them, call the Operation Center at 301-816-4415. Thank you. Bye, bye.

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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Hi, you have reached  
Glenna Lappert at the U.S. Nuclear Regulatory  
Commission. Please leave your name and number, and  
a brief message, and I will get back to you as soon  
as I possibly can. Thank you and have a great day.

Hey, Glenna Lappert, this is John  
Lubinski. It's 6:07 a.m. on Monday morning, the  
14th. If you're in the office today, I think you're  
sometimes an early person getting in, give me a call  
back on my Blackberry. It is kind of urgent. So as  
soon as you get this, give me a call. I'm in the  
Ops Center now. It's (b)(6)

Reason I'm calling, is you worked on the  
B5B Amendments with Mel Fields and there was some

(b)(5)

(b)(5)

Please give me a

call back on my Blackberry, so we could discuss.

Thanks.



(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Detective Magistine  
(phonetic).

MIKE: Yes, I had a, it's Mike Tarrovich  
(phonetic) from the Knolls Laboratory ECC. I had a  
question about the RASCAL source term that you guys  
transmitted to NARAC.

FEMALE PARTICIPANT: Okay. I'm not the  
right guy. Hang on. Are you involved in that phone  
call or can you? From the Knolls Laboratory.

MALE PARTICIPANT: NRC.

MIKE: Yes, my name is Mike Tarrovich  
from the Knolls Laboratory ECC. I had a question  
about the source term, the RASCAL source stuff that  
you sent to the NARAC team.

MALE PARTICIPANT: Yes?

MIKE: The Fukushima Unit 1, power  
rating was listed in there as 2500 megawatts,  
thermal. But it's listed as only, listed as only  
like 460 electrical, which would put it somewhere  
around 12, 1300 megawatts, thermal.

MALE PARTICIPANT: Well, we'll check  
that.

MIKE: Okay. Just curious if that was

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1 intentional, or meant to be (inaudible), or  
2 whatever.

3 MALE PARTICIPANT: No, I don't think so,  
4 I think that may have been a clone from Unit 3 or  
5 something.

6 MIKE: Yes, that fits the Units 2 and 3  
7 numbers.

8 MALE PARTICIPANT: Yes, I figured.

9 MIKE: Okay.

10 MALE PARTICIPANT: Okay.

11 MIKE: All right fine. Thank you.

12 MALE PARTICIPANT: All right. Thanks.

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(CONFERENCE CALL INITIATED)

CHRISTINA: Christina, Director, PMT.

PHIL VOGT: Hi, yes. This Phil Vogt  
calling from NARAC.

CHRISTINA: Okay.

PHIL VOGT: I just wanted to let you  
know that we did receive the RASCAL output files.

CHRISTINA: Yes.

PHIL VOGT: For the 40 percent cases.

CHRISTINA: Okay.

PHIL VOGT: However, we'd like to, find  
out is when you, the release to the atmosphere  
occurred for each case?

CHRISTINA: Okay, hold on just one  
second, okay?

PHIL VOGT: Okay.

CHRISTINA: It's NARAC calling back.

BRUCE WATSON: Hello.

PHIL VOGT: Yes.

BRUCE WATSON: This is Bruce Watson.

PHIL VOGT: Hey, Bruce. This is Phil.

BRUCE WATSON: Okay.

PHIL VOGT: At NARAC. We got the RASCAL  
summary and spreadsheets, but the one thing it

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1 really doesn't have is the actual atmospheric  
2 release time, when that occurred?

3 BRUCE WATSON: It's continuous.

4 PHIL VOGT: Yes, but do you know what  
5 did it start?

6 BRUCE WATSON: Okay, hold on. Hey guys,  
7 Tony, Fritz, what time did you assume these releases  
8 started (inaudible), did you assume any time?  
9 (inaudible). We assume that the release time  
10 started when the core came uncovered.

11 PHIL VOGT: That's sounds good to us.  
12 That's all I (inaudible).

13 BRUCE WATSON: Okay. We'll see you  
14 guys. Different times for each one of the reactors.  
15 That's what --

16 PHIL VOGT: That's what we had.

17 BRUCE WATSON: Okay? All right, you  
18 okay?. That's the only questions?

19 PHIL VOGT: No, that's all I had. Thank  
20 you.

21 BRUCE WATSON: Okay, thank you.

22 PHIL VOGT: Goodbye.  
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(CONFERENCE CALL INITIATED)

CHRIS: Protective Measures Team.

MIKE SCOTT: Hi, this is Mike Scott in research. Who am I talking to?

CHRIS: This is Chris Lui.

MIKE SCOTT: Hi, Chris. I am following up on a request that was made of Stephanie Bush-Goddard, I guess this morning. Where someone asked if she could go on rotation over there at the PMT, and she said no, because she was out of town. But she's offered to come back if needed, and they didn't take her up on it at the time.

My question to you is, do you have adequate support from us, over there in your staff?

I know we have several staff members on rotation. Are we adequately covered at this point from the DOEs branch here?

CHRIS: Well, I think that we looking at the various positions that need to be staffed within PMT. And I have somebody who's working on the staffing. So hold on just one second. They're asking are you in need of bringing Stephanie Bush-Goddard back? She's either on travel, or she's out of town. So I'm not quite sure what position that

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1 she occupies and whether we need for her to come  
2 back?

3 MALE PARTICIPANT: (inaudible) who's  
4 that on the phone?

5 CHRIS: This is Stephanie Bush-Goddard's  
6 boss.

7 (Crosstalk)

8 CHRIS: Yes, her boss. (inaudible).

9 (Crosstalk)

10 CHRIS: I don't know.

11 (Crosstalk)

12 CHRIS: Hey, Mike.

13 MIKE SCOTT: Yes.

14 CHRIS: Okay, the best I can tell is  
15 that we don't have to, we don't need to bring  
16 Stephanie back. Just for the Ops Center this week.

17 MIKE SCOTT: Nor do you need a  
18 substitute for her?

19 CHRIS: This person will have to be  
20 qualified for the position. Joe is, we're not just  
21 randomly pulling people in.

22 MIKE SCOTT: Okay.

23 CHRIS: Okay.

24 MIKE SCOTT: Okay, so you're just going  
25 through your rotation.

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CHRIS: Correct.

MIKE SCOTT: Okay, thank you.

CHRIS: Okay, thank you.

MIKE SCOTT: Bye.

CHRIS: Bye.

(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: This is the PMT.

TONY: Hello, this Tony Huffert calling from home.

FEMALE PARTICIPANT: Hi, Tony.

TONY: Hi, I'm just trying to get in touch with the PMT coordinator who's filling out the schedules for the next couple days.

FEMALE PARTICIPANT: Yes, he's right here. It's Nima.

TONY: Thank you.

NIMA: Hi, Tony.

TONY: Hi, I was just wondering if you could put me on for tomorrow from 3 to 11? It turns out that I'm, I am available tomorrow because my other meeting got cancelled.

NIMA: 15th, 3 to 11 with Fritz?

TONY: Yes.

NIMA: Should I take you off on the 16th?

TONY: For now, yes.

NIMA: Okay. All right, it's done.

TONY: Okay, thank you much.

NIMA: Great, you're welcome. Bye.

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TONY: Bye.

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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Welcome to AT&T's  
Teleconference service. Please enter your access  
code followed by the pound sign. At the tone,  
please speak your name.

DR. VINCENT HOLAHAN: Dr. Vincent  
Holahan.

AUTOMATED MESSAGE: There are nine  
participants on the call including you. You are  
joining your conference as a participant. For a  
menu of available commands, press star, pound.

DR. VINCENT HOLAHAN: Dr. Vincent  
Holahan.

AUTOMATED MESSAGE: Has joined the  
conference.

CHRIS LEONARDO: Okay, I think we've got  
everybody on the call. Glad you could make it.  
Again, we'll just do a quick round of who's on the  
call. Then when we finish that, I'll talk about the  
specific purpose of the call and the agenda. So  
we'll start with folks on the USAID OFDA Response  
Management Team.

My name is Chris Leonardo, I'm the  
Deputy Manager for Operations, and I'll be the

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1 moderator for the call.

2 MARK BARTOLINI: Hi, everyone. This  
3 Mark Bartolini. I'm the Director of OFDA.

4 STEVE CATLIN: Steve Catlin, OFDA,  
5 Operations Division.

6 PHIL LAN: Phil Lan (phonetic) search  
7 and rescue officer from Fairfax Fire and Rescue.

8 CHRIS LEONARDO: Could I ask next for  
9 colleagues from the Nuclear Regulatory Commission to  
10 introduce themselves?

11 DR. VINCENT HOLAHAN: Hi, this is Dr.  
12 Vince Holahan, I'm the Deputy Director of the  
13 Preventive Measures Teams at the NRC. And I'd like  
14 to let you know that this is a recorded line.

15 CHRIS LEONARDO: Okay, thank you. Could  
16 I ask our colleagues from Fairfax to introduce  
17 themselves?

18 CHIEF RON MASTIN: Yes, you have Fire  
19 Chief, Ron Mastin, Deputy Chief, Johnson, Battalion  
20 Chief, Ed Brinkley, with Virginia Task Force 1, and  
21 Dr. Don Stewart from our, OHC Health Center.

22 CHRIS LEONARDO: Great, and LA County?

23 FIRE CHIEF DARYL OSBY: All right, you  
24 have Daryl Osby, Fire Chief. I think we're all on  
25 different phone call, lines, so they're going to

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1 have to introduce themselves.

2 CHIEF DEPUTY JOHN TRIPP: Chief Deputy  
3 John Tripp.

4 DEPUTY FIRE CHIEF MIKE METRO: Deputy  
5 Fire Chief Mike Metro.

6 BATTALION CHIEF JOHN BOYLE: Yes,  
7 Battalion Chief John Boyle and Steve Davis  
8 (phonetic).

9 FIRE CHIEF DARYL OSBY: I guess that's  
10 it for LA County.

11 CHRIS LEONARDO: LA County, okay, great.

12 So the purpose of the call today was, we wanted to  
13 discuss some of the safety issues surrounding the  
14 two USAR teams that are in Japan.

15 We thought first, we'll have an update  
16 on the situation with the reactors. And I'll ask  
17 our colleagues from NRC to take the lead on that.  
18 NRC's also going to talk a little bit about the  
19 worse case scenarios with the reactors and how it  
20 relates to the USAR team locations.

21 Next I'll move into kind of the  
22 planning, some of the planning we've done. With  
23 regard to moving the team if necessary. Then we'll  
24 open it up for questions and we can talk about next  
25 steps for coordination. Okay, so first can we ask

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1 Dr. Holahan to give us an update on the situation?

2 DR. VINCENT HOLAHAN: Yes, thank you

3 very much. (b)(5)

4 (b)(5)

6 (b)(5) We don't have any individuals actually  
7 on the site. They haven't been allowed to go on  
8 site. The status of the three sites --

9 AUTOMATED MESSAGE: Has joined the  
10 conference.

11 DR. VINCENT HOLAHAN: Right now we have  
12 six reactors at the Fukushima site. Three of those  
13 are in a shutdown condition. Most likely for  
14 maintenance. There are three of the reactors, 1, 2  
15 and 3, in all three cases there has been a problem  
16 with their cooling system as such.

17 And all three sites, ocean water is  
18 being pumped into the reactor vessel. At all three  
19 sites the reactor pressure vessels are in a good  
20 condition. That is to say, we have containment  
21 there.

22 The secondary containment structures, if  
23 you've been watching CNN, two of them actually have  
24 been destroyed due to a hydrogen gas explosion. And  
25 the reactor 2 site, they've actually removed the

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1 roof from that secondary containment structure to  
2 make sure there wasn't a concentration of hydrogen  
3 gas in that site.

4 As long as we're able to maintain the  
5 structural integrity of the reactor vessel, we  
6 should have a stable situation. Again in all three  
7 of those sites, they have to remain pumping water  
8 into those. At one point they were pumping fresh  
9 water into that, but I believe they've gone back to  
10 sea water.

11 Under the meteorological conditions we  
12 have now, any periodic releases from those three  
13 reactors, and these periodic are to relief the  
14 atmospheric pressure in those containment vessels,  
15 these have all been going from the west to the east.

16 That is to say, directly out to sea.

17 My understanding is, as you're going to  
18 the Ofunato prefecture. That location is about 115  
19 miles to the north, northeast of Fukushima. And we  
20 have had no radiation plumes head in that direction.

21 So it is our understanding at this point, you  
22 shouldn't have any problems in that area.

23 Due to a meteorological change that we  
24 expect to occur over the next 12 hours, there will  
25 be a shift in the wind direction from essentially

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1 the north, northwest through the south, to the west.

2 It should sustain that way for about four to six  
3 hours before returning back to the original  
4 direction, where it's back out to sea. Any  
5 questions?

6 CHRIS LEONARDO: Hang on just a second.

7 I know someone else joined the call, in fact Dewey  
8 Perks's on the line? No I guess not. Okay does  
9 anyone have questions for Dr. Holahan?

10 DR. DON STEWART: Sir, my name Don  
11 Stewart. I'm an Occupational Medicine doc, with a  
12 background in Preventive Medicine, Occupational  
13 Medicine, so I'm not an expert on radiological  
14 sciences. And we're concerned about our troops  
15 obviously.

16 It sounds like, and once again I'm just  
17 getting this from the lay press, that the isotopes  
18 that are being releases are CVMA iodine. And those  
19 particulates could certainly, conceivably if the  
20 winds do shift in correct direction, or I guess the  
21 incorrect direction, it's certainly conceivable that  
22 those isotopes would be carried relatively quickly  
23 to the area where our troops are.

24 I guess my concern is the extent to  
25 which we can or can not quantify the risk to them?

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1 Understanding you know the situation where you're  
2 not getting a lot of information either, but I think  
3 the only dosimetry that we have on the ground is  
4 kind of background radiation. I don't think we have  
5 anything more sophisticated than that.

6 I, we were just looking for if it's  
7 possible, to quantify the risk at all? Or if this  
8 is just kind of a wild card now?

9 DR. VINCENT HOLAHAN: I would probably  
10 describe it best, as a wild card. As I say, you're  
11 over 115 miles away. Even during the last hydrogen  
12 gas explosion, there were nominal measurements in  
13 the plume at that distance. So I think we're pretty  
14 good there.

15 Now clearly as a preventive measure if  
16 you had a dosimetry with the team, to monitor  
17 anything, I doubt you're going to measure anything  
18 that's detectible. The iodine, again it's going to  
19 be very, very low amounts.

20 I mean our Preventive Measures, we're  
21 talking about, concerned about iodine at several  
22 kilometer distances, not at the 100 mile distances  
23 you're talking about. Again if you're worried about  
24 an ingestion pathway, obviously you want to be  
25 careful about what you eat and drink. That would be

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1 the pathway of concern with iodine.

2 Normally in a situation like this in the  
3 US, we would be concerned about the ingestion  
4 pathway. We would be monitoring out to 50 miles and  
5 then what we would be doing, is we'd talk about, you  
6 know, bringing dairy cattle in, putting them on  
7 grain stuff and things like that so we don't get the  
8 iodine into the milk stream. But that would be out  
9 to 50 miles, and again you're twice that distance.

10 DEWEY PERKS: I'm Ensign Dewey Perks and  
11 can I throw a couple things in there?

12 CHRIS LEONARDO: Sure, Dewey. I  
13 skipped, to let everybody on the call know, Dewey  
14 Perks is the Operations Coordinator out on the  
15 Disaster Assistance Response Team. So he's  
16 overseeing both of their USAR teams on the ground.  
17 Go ahead Dewey.

18 DEWEY PERKS: Yes, and if I loose you  
19 I'm sorry, I won't sound like (inaudible). I just  
20 want to try to reassure everybody that we're getting  
21 constant briefing from our inner (inaudible) reps  
22 that's attached to the guard in Tokyo.

23 And everything that the other gentleman  
24 just explained it, is what we have as best  
25 information. We do have Rad pagers, that we're

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1 working with. Ed Hernandez from LA County has given  
2 us a little bit of a Rad emergency plan if you will.

3 It's in our operations plan.

4 All of our food and water is self  
5 contained. Everyone is on the MREs. And everyone  
6 is drinking bottled water. So we're not anything  
7 from the local sources.

8 CHIEF JOHNSON: Hey, Dewey does the  
9 team, it's Chief Johnson, does the team have any  
10 dosimetry with them? I know that, I didn't think  
11 that --

12 DEWEY PERKS: Yes, Rad pagers. They've  
13 got Rad pagers for monitoring.

14 CHIEF JOHNSON: Right, but no dosimetry  
15 then?

16 DEWEY PERKS: Well there is some, but  
17 we're using that at the work sites where we're at  
18 this morning.

19 MALE PARTICIPANT: The gentleman from  
20 NRC, sir, would you comment on, I mean I know this  
21 is wildly speculative, to bring the lay presses, is  
22 trying to assert that the containment vessels are  
23 going to hold.

24 But we're injecting sea water in order,  
25 and turning it into steam to keep these at an

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1 operational temperature. Does the agency have a  
2 feeling for what the risk of a loss of containment  
3 is? A Three Mile Island sort of sceanario?

4 DR. VINCENT HOLAHAN: Okay, could you  
5 repeat that question, please?

6 MALE PARTICIPANT: Well the short  
7 version is, is there an estimate on the risk of the  
8 loss of containment, aka Three Mile Island? Where  
9 we had a partial meltdown of a core.

10 MICHELLE HART: Are you talking about,  
11 this is Michelle Hart, I'm the radiological  
12 assessment and (inaudible) director. Are you asking  
13 about projective doses?

14 MALE PARTICIPANT: No. I'm asking what,  
15 is there any estimate of the risk of this thing  
16 going from bad to much worse?

17 MICHELLE HART: Are you asking primary  
18 containment leakage?

19 MALE PARTICIPANT: Yes, ma'am. That's  
20 the question?

21 MICHELLE HART: I don't think we have  
22 any condictionation right now, that we would have  
23 higher, like in a uncontrolled release, the breaking  
24 of the containment. That they would just to have  
25 these periodic controlled releases. So no, we don't

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1 have any projections right now on, or even estimates  
2 of risk of a more catastrophic type failure.

3 MALE PARTICIPANT: Thank you.

4 CHRIS LEONARDO: I wanted to give Dewey  
5 an opportunity to give any additional updates of  
6 operations in the field. Because I know we may  
7 loose you Dewey, and then we'll have a chance to  
8 talk a little bit more about the planning and any  
9 more questions that folks might have.

10 DEWEY PERKS: Okay, thanks Chris. We're  
11 here today, we're working in the area of Ofunato  
12 (inaudible) tsunami. As my colleague said, we're at  
13 least 100, 115 miles away from the release  
14 (inaudible) everyone knows where we are on the map.  
15 We're (inaudible) from Misawa (phonetic) to the  
16 area where we are. And our line of demarcation is  
17 Shindow (phonetic). We had been advised not to go  
18 within 50 kilometers of that city. And so our  
19 operational time, it is well north of that.

20 While we're out working we do have our  
21 HAZMAT folks here, who are doing monitoring  
22 constantly. We do have direct contact (inaudible),  
23 not only to the DARTs and NRC in Washington, but  
24 also with our DOD colleagues that are with us.  
25 We're also in direct communication with their

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1 representatives back in Misawa.

2 We have an evacuation plan if one  
3 becomes necessary. We have at our disposal six  
4 physical passenger buses which will accommodate all  
5 of our assigned members. As well as the press. And  
6 our route is the route that we drove to come down  
7 here today.

8 All roads are intact, all bridges are  
9 passable, and the National freeway system has been  
10 shutdown except to emergency response. The area  
11 that we are in, has relaxed it. I would say at  
12 least 70 percent has been evacuated and we would not  
13 expect to see any large influx of road traffic in  
14 there, because there is no one here. Because of the  
15 earthquake and tsunami. So does anyone have any  
16 questions for us?

17 DR. DON STEWART: Hey, Chief, Doc  
18 Stewart again. I guess operationally, what are your  
19 thoughts about kind of insisting on folks using at  
20 least an N95 just as a preventative measure because,  
21 look at our experience from, you know, the 9/11 in  
22 New York?

23 DEWEY PERKS: Yes, we've got to do that  
24 anyway, Doc. As well as B2s, with some of the areas  
25 that we're working in, that's normal (inaudible).

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1 It's not extreme methods, that's how we operate.

2 DR. DON STEWART: Okay. My only, I  
3 guess my high level concern would be if they did  
4 have a more -- at present given the levels of  
5 release that they've got, the very controlled  
6 release and the distance that you are from the  
7 reactors, I'm not really concerned and I'm not an  
8 expert.

9 But my concern would be, you know,  
10 things underground getting worse. And then the  
11 winds shifting in your direction. Because if we had  
12 a major release?

13 DEWEY PERKS: Yes, I think you got to,  
14 Steven (inaudible) assures that we're watching the  
15 meteorological reports as well as anybody is.  
16 (inaudible), as winds shift, the quality of  
17 (inaudible) air at our operations, we have to  
18 (inaudible) accordingly. (inaudible) back north of  
19 Misawa.

20 DR. DON STEWART: I wonder if it would

21 (b)(5)

22  
23 DEWEY PERKS: Right now, we're not in an  
24 area that where that's required.

25 DR. DON STEWART: Okay.

1 DEWEY PERKS: It is a contingency we  
2 would look at, but it's not high on our priority  
3 list from (inaudible) the information that we have.

4 DR. DON STEWART: Okay.

5 MARK BARTOLINI: Hi, this is Mark  
6 Bartolini, the OFDA Director. And I'll just say to  
7 that point that, OFDA is playing very much a multi-  
8 faceted role in this crisis. We're coordinating the  
9 entire U.S. Government response, humanitarian  
10 response.

11 And so we're working with a number of  
12 NRC colleagues that are both in the field for us on  
13 our DART team, and here in Washington as well as  
14 Department of Energy, and Health and Human Services.

15 And today I authorized a six person team, who are  
16 specialists in CBRNE to go out to Tokyo, and I  
17 expect to dedicate one of those team members to look  
18 after our USAR teams.

19 FIRE CHIEF DARYL OSBY: This is, this is  
20 Osby from LA County Fire. And I don't want to come  
21 across as being an extremist or anything. But worse  
22 case scenario, if the reactors failed and I don't  
23 know if you've done any type of plume modeling, or,  
24 you know, wind direction if it the plume is going in  
25 the direction of our personnel. Then is the route

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1 you took in, the appropriate route to take out?

2 DEWEY PERKS: Yes, sir.

3 FIRE CHIEF DARYL OSBY: The type of  
4 (inaudible). I mean. Hello? I mean I don't know,  
5 I mean, I mean I wouldn't want to (inaudible) this.

6 I mean it seems like I would want to have some type  
7 of professional perspective as far as plume  
8 modeling. And wind speed, and stuff to ensure that  
9 the extraction plan that we have is the appropriate  
10 plan to get our personnel out. In case there was a  
11 worse case scenario.

12 MARK BARTOLINI: Yes, I couldn't agree  
13 with you more and as I said, we have a lot of  
14 expertise on the team here. And we're looking at  
15 all angles of this. Our HHS folks are going to be  
16 coming with more sophisticated detection equipment.

17 And certainly we have modeling capability with both  
18 DOE and NRC.

19 FIRE CHIEF DARYL OSBY: I mean because,  
20 what I'm simply saying is I don't know how long it  
21 took to get there, but I guess there's an example,  
22 if it took five hours to drive there, is five hours  
23 of drive time getting out, appropriate, you know,  
24 time to ensure the safety of our personnel?

25 DEWEY PERKS: Chief I'd like you to keep

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1 this one thing (inaudible).

2 CHRIS LEONARDO: Dewey this is Chris,  
3 can you repeat that? You started to break up, let's  
4 try it again.

5 AUTOMATED MESSAGE: Has left the  
6 conference.

7 CHRIS LEONARDO: I think we lost Dewey,  
8 but I'm sure he's going to try and call back in.

9 MARK BARTOLINI: This is Mark again. I  
10 mean I'll just reiterate that we're very concerned  
11 about this. At this point it would be I think a  
12 worse case scenario would have to occur in order for  
13 it to be an issue from what I'm hearing from our NRC  
14 colleagues.

15 And you know, I'm not going to say  
16 that's not possible, but right now, we're a ways,  
17 away from that. But we are trying to plan every  
18 possible contingency. And in addition to our work  
19 with HHS out there, we're looking at other possible  
20 extraction routes. We're in contact with DOD over  
21 this, and it's a very high priority item on my list.

22 So you know, there are no guarantees,  
23 but we're taking, I think, every precaution we can.

24 And you're not going to find a better, I don't  
25 think, a better collection of experts than we have

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1 right now working on the OFDA, DART on this.

2 We're going up to the highest levels of  
3 government, in terms of advising them on the  
4 situation. And we're getting better contacts with  
5 the Government of Japan daily on this issue.

6 MALE PARTICIPANT: Thank you. And that  
7 is reassuring on our part. And obviously you see  
8 our concerns, just like everybody else's concerns  
9 involved in that. We want to make sure that we're,  
10 you know, second, third, fourth, failure has  
11 contingencies for those. And I'm confident that,  
12 that's what you're communicating to us. So thank  
13 you.

14 MARK BARTOLINI: Yes, no absolutely. We  
15 feel the same way.

16 CHIEF JOHNSON: This is Chief Johnson  
17 again, I know that Dewey's off, but you know, he had

18 (b)(5)  
19  
20  
21  
22  
23  
24  
25

1 least our team and so forth. So I know he didn't go  
2 into great detail as far as the evacuation plan.  
3 But we maybe could hear more when he gets back on,  
4 if he gets back on?

5 MARK BARTOLINI: Yes, and I just say  
6 that I'm in contact with the DART team leader, Bill  
7 Berger, who's in Tokyo everyday. We've been  
8 discussing this issue. I'm in contact with him  
9 several times a day. And we're looking at all  
10 contingencies, so that's the immediate evacuation  
11 plan, but we're trying to have more redundant  
12 systems in place. Depending on what type of  
13 modeling were developed, were the incident to go  
14 worst case.

15 MALE PARTICIPANT: And also echoing that  
16 is that I'm hoping that, that we have, some times

17 (b)(5)  
18  
19  
20  
21  
22  
23

24 MARK BARTOLINI: Well that's something  
25 we're definitely looking at and working on. And

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1 you know --

2 MALE PARTICIPANT: Thank you.

3 Appreciate that.

4 MARK BARTOLINI: Okay.

5 CHRIS LEONARDO: Are there other  
6 questions?

7 CHIEF RON MASTIN: Chief Mastin here.  
8 With all the contingency plans, is that being  
9 relayed to Dewey Perks? Excuse me, and the folks on  
10 the ground, so should there be a need to implement  
11 it, any of those, that's a smooth transition and a  
12 coordinated effort?

13 CHRIS LEONARDO: Absolutely. Dewey is  
14 part of that planning process. We've been talking  
15 about it since the team arrived on the ground. We  
16 have a Safety and Security Officer out on the team.

17 So again it's being, it's being worked  
18 through Dewey as well as our Safety and Security  
19 Officer. And a number of colleagues at the embassy,  
20 who are part of what's called the Emergency Action  
21 Committee at the embassy. Who are responsible for  
22 evacuation for all Americans at post.

23 CHIEF RON MASTIN: Thank you.

24 CHRIS LEONARDO: I just want to add  
25 another point. You know, as you know, Jerome

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1 Williams from Fairfax is here, working the day  
2 shift, as a Search and Rescue Officer. We have Don  
3 Malkey (phonetic) from LA working the night shift.  
4 You know, we want to make sure that you feel like --

5 AUTOMATED MESSAGE: Don Tripp, has left  
6 the conference.

7 CHRIS LEONARDO: We want to make sure  
8 you feel like you're getting good information.  
9 Jerome and Don are here to be that liaison point  
10 between what we're hearing here on the Response  
11 Management Team, as it's relayed back from the  
12 DARTs.

13 So, you know, we invite and welcome if  
14 you wanted to send additional staff to be part of  
15 that Response Management Team. We want to make sure  
16 you feel like your, you know, your concerns which  
17 are obviously very valid, are being addressed.

18 And we're welcome, we'd welcome, you  
19 know, additional conference calls. You know,  
20 additional briefings from NRC would probably be a  
21 possibility. So we just want to hear back from you  
22 in terms of, you know, your comfort level, and any  
23 next steps that we can take.

24 FIRE CHIEF DARYL OSBY: Well, this is  
25 Osby again from LA County, and I just want to kind

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1 of repeat what Chief Tripp --

2 AUTOMATED MESSAGE: John Tripp has  
3 joined the conference.

4 FIRE CHIEF DARYL OSBY: Is that we do  
5 have confidence, you know, in Dewey and USAID and  
6 NRC as far what's going on to this point. But I  
7 think that, and I believe that probably this what  
8 we're talking about, probably won't happen.

9 But I think we would feel a little bit  
10 more comfortable from our perspective, if there was  
11 a mathematical, or scientific, or whatever the  
12 experts field, they do, when they talk about  
13 extraction plans, that if we do like worse case  
14 scenario, as far as plume modeling and complete  
15 catastrophic, you know, melt down of one of the  
16 reactors, and the wind is going toward our  
17 personnel.

18 That to validate if Dewey's indicating  
19 that if ground transportation was okay to get there.

20 That, that same ground transportation was, based on  
21 mathematical time frames, will be the appropriate  
22 way to leave. So, I believe we can do that from a  
23 scientific perspective? I think we would feel a lot  
24 more comfortable and I'd like to relay that to the,  
25 to our family members.

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1                   But the fact of the matter to this  
2 point, we feel fine with the efforts, but we just  
3 want a little bit more reassurance. So that's our  
4 perspective from LA County.

5                   MARK BARTOLINI: Dr. Holahan, are you  
6 still on the call? Can you take that one?

7                   DR. VINCENT HOLAHAN: Could you repeat  
8 the question again, please?

9                   CHRIS LEONARDO: The question was about  
10 some, doing some additional scientific modeling.

11                   DR. VINCENT HOLAHAN: Well let me  
12 reassure you that both the U.S. NRC, as well as the  
13 Department of Energy are monitoring the situation.  
14 We're following the meteorology. We're following  
15 the conditions of the plant. We're following any  
16 releases, keeping in mind that we're making an  
17 enormous number of assumptions. And because of  
18 that, it is very difficult for us, at least go out  
19 publicly, with what our calculations are showing.

20                   What I can say, is we look at the  
21 meteorological conditions for the next 24 hours, and  
22 right now the wind is blowing away from your  
23 location. It is not blowing toward the location.  
24 We anticipate some shifts, but again those shifts  
25 will be taking more out to sea.

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1                   So if there are any planned or unplanned  
2 releases, at least for the next 24 hours, and that's  
3 the only meteorological information we have, there  
4 should be no hazard to the area that you're teams  
5 are going to be deployed to.

6                   FIRE CHIEF DARYL OSBY: And I understand  
7 that, I know this looks at a 24 hour period. But I  
8 also recognize that weather models do change. And I  
9 do recognize that if it is the winter over there.  
10 And I know their worse case scenario that we could  
11 (inaudible) winter storm coming through there, that  
12 could, you know, change that.

13                   And so, I'm not questioning the data  
14 that we have at this point, but I was just asking  
15 that we do kind of further analysis to ensure that  
16 worst case scenario, that the extraction plans that  
17 our personnel has in place right now, is the  
18 appropriate plan in case an evacuation is necessary.

19                   That's all I'm asking.

20                   CHIEF JOHNSON: Chief Johnson from  
21 Fairfax again. I would just echo what our  
22 colleagues in LA has said, and certainly we're about  
23 to get on the teleconference with our families in  
24 about 30 minutes, and certainly they're going to  
25 have these questions for us.

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1                   And we need to have the appropriate  
2 answers for them, which I feel we do. And I would  
3 echo that. That we feel that everything is being  
4 done that can be done. And we also would like some  
5 additional, you know, scientific analysis and  
6 certainly plume modeling, and some really more  
7 advanced capabilities for extraction, should it,  
8 should need arise.

9                   Because obviously the news is not  
10 portraying this event very favorably, which  
11 (inaudible) can call. And we don't know why that  
12 is. But certainly if our families are home watching  
13 the news today, they're not getting a very good  
14 impression.

15                   DR. VINCENT HOLAHAN: This is Vince  
16 Holahan from the NRC. The one thing I can assure  
17 you, is the Department of Energy, they are staffed  
18 and they're operating 24/7 for this event. Our  
19 agency is well, it is staffed, we're operating 24/7.

20                   We're obtaining any changes per the  
21 meteorology as they occur. This information is  
22 being shared with NARAC at the Department of Energy.

23                   We're on conference calls every two hours,  
24 exchanging information to make sure that our  
25 assessments are lining up with their assessments.

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1                   And if there is a change in the plant  
2 conditions, you can rest assured we're going to be  
3 factoring that into the modeling that we're doing.  
4 Both with us, through DOE, as well as the Department  
5 of Defense et cetera.

6                   MARK BARTOLINI: And I would just add, I  
7 think I mentioned this earlier, but we have two NRC  
8 staff right here on our RMT. So we are on it by the  
9 second.

10                  DR. VINCENT HOLAHAN: And I'd also add  
11 that we've got nine more on their way.

12                  MARK BARTOLINI: Yes.

13                  DR. DON STEWART: Okay. That's very  
14 reassuring. This is Dr. Stewart again. And as  
15 Chief Johnson said, part of our, part of our role  
16 here is to reassure the families, they're going to  
17 be reading these newspaper articles. (b)(5)

18 (b)(5)  
19

20                  To be, you know, the situation could  
21 change fairly rapidly. You could have winds aloft  
22 at 30 to 50 knots, so we've, and once again, just  
23 piecing together the worst possible scenarios. But  
24 it's very comforting to hear the level of expertise  
25 that's on this.

1                   Could you predict at all for us non-  
2 experts, is this going to be, can they stabilize  
3 these cores and shut them down? Or is it just going  
4 to be trading sea water for radioactive steam for  
5 the next month? Is there any, do you have a feeling  
6 for the time frame of this disaster?

7                   CHRIS LEONARDO:       I don't have a  
8 particular time frame for this. Certainly in the  
9 near term, it is going to be the way you  
10 characterized it, trading sea water for radiological  
11 release. That's the situation we're in now.

12                   As time goes on of course, the cores do  
13 cool down. Because they are not fissioning right  
14 now. It's all just a matter of getting them cooled  
15 down to a state where we don't need to trade the sea  
16 water for steam. I don't have a good feeling for  
17 what the time frame is. Unfortunately.

18                   DR. DON STEWART:       Well thank you.  
19 That's, these are just questions that pop in my lay  
20 person's head. And it's tough, tough, scenario.  
21 And it is very gratifying to hear the level of  
22 expertise that we've got there.

23                   Have, let me, one last question then  
24 I'll shut up. What perimeter have they evacuated  
25 now, around the nuclear plant in terms of their

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1 citizens?

2 AUTOMATED MESSAGE: Has joined the  
3 conference.

4 DR. DON STEWART: It was, I think 12 and  
5 a half mile perimeter. Have they gone further out  
6 than that?

7 DR. VINCENT HOLAHAN: It's our  
8 understanding, that still is the evacuation  
9 perimeter. It's also our understanding that they  
10 have not completed the evacuation. And some  
11 individuals are refusing to leave.

12 With that said, also anybody in that  
13 evacuation zone, as they are leaving. They are  
14 being issued potassium iodine.

15 MALE PARTICIPANT: I'm assuming we have  
16 that on board with our -- (inaudible).

17 CHRIS LEONARDO: I'm actually not sure,  
18 but we could find out.

19 (Crosstalk)

20 CHRIS LEONARDO: Are there any other,  
21 any other questions that we can tie into that?

22 DEWEY PERKS: Hey, Chris, this is Dewey,  
23 I just, I lost my signal there for a minute, but I'm  
24 back in if anybody has anything else for us.

25 CHRIS LEONARDO: Yes, Dewey. I'm sorry,

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1 I'm glad you're back on. There was just a question  
2 raised about is there Iodine in the cache, that you  
3 have with you?

4 DEWEY PERKS: No, but we, no but we can  
5 get access to it and (inaudible) to us as we need  
6 to.

7 MALE PARTICIPANT: Dewey, I've got a  
8 question. Is it unreasonable to ask for a  
9 helicopter type evac scenario? Or to have plans in  
10 place for that?

11 DEWEY PERKS: I think Travis (phonetic)  
12 is working on the in path right now. And we've got  
13 helicopters coming in and out of the theater where  
14 we are quite regularly, that belong to the Japanese  
15 (inaudible).

16 MALE PARTICIPANT: Okay, very good. I  
17 think that helps, as long as we're, got that  
18 capability.

19 DEWEY PERKS: Anything else for me?

20 MALE PARTICIPANT: Hello?

21 MALE PARTICIPANT: (inaudible) back,  
22 Dewey. Thank you.

23 DEWEY PERKS: Okay, thank you very much.  
24 Goodbye.

25 CHRIS LEONARDO: Goodbye Dewey. Okay so

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1 if there are no further questions, again please  
2 continue to be in contact with the Search and Rescue  
3 Officer on the Response Management Team, now if we  
4 need to --

5 AUTOMATED MESSAGE: Has left the  
6 conference.

7 CHRIS LEONARDO: Have another conference  
8 call in the future, we're very happy to do that.  
9 And we'll continue to relay information. Technical  
10 information as we receive it from our colleagues at  
11 NRC. So thanks everyone.

12 DR. DON STEWART: Thank you.

13 MALE PARTICIPANT: Thank you.

14 DR. VINCENT HOLAHAN: Thank you  
15 everyone.

16 MALE PARTICIPANT: Thank you.

17 AUTOMATED MESSAGE: Fairfax County Urban  
18 Search and Rescue, has left the conference.

19 AUTOMATED MESSAGE: Has left the  
20 conference. Metro.

21  
22 0%BMKH(\_04065094

23 (CONFERENCE CALL INITIATED)

24 DR. VINCENT HOLAHAN: NRC Operations  
25 Center, Vince Holahan, speaking, this is a recorded

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1 line.

2 TOM GALLETTA: Hi, this is Tom Galletta.

3 I was trying to reach Kevin Quinlan at the  
4 Meteorologist desk.

5 DR. VINCENT HOLAHAN: Yes, wait one  
6 please.

7 KEVIN QUINLAN: Kevin Quinlan.

8 TOM GALLETTA: Kevin, Tom Galletta.

9 KEVIN QUINLAN: Hey, Tom. What's up?

10 TOM GALLETTA: Are you actually at your  
11 desk, or?

12 KEVIN QUINLAN: Well, you called the  
13 desk over at the Director's table. Or the PT  
14 Director's table.

15 TOM GALLETTA: Okay, am I on the  
16 speaker? Or am I not?

17 KEVIN QUINLAN: Yes, you're on the  
18 phone. Do you want to just call my cell phone?

19 TOM GALLETTA: Okay.

20 MALE PARTICIPANT: What, isn't that  
21 number 5104 at the desk?

22 (Crosstalk)

23 KEVIN QUINLAN: I'm not exactly sure.

24 TOM GALLETTA: Okay, I just wanted to  
25 pass on to you, apparently in the news, Unit 2

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1 exploded and in Japan, it --

2 KEVIN QUINLAN: Yes, we've got the, CNN  
3 up here?

4 TOM GALLETTA: Okay. Yes. All right.  
5 I just was making sure that it got through you.

6 KEVIN QUINLAN: Yes.

7 TOM GALLETTA: Anything preliminary  
8 they're saying? Or?

9 KEVIN QUINLAN: I haven't heard.  
10 Literally they just announced, a minute ago maybe,  
11 that it exploded.

12 TOM GALLETTA: Okay.

13 KEVIN QUINLAN: (b)(5)

14 (b)(5)

15 TOM GALLETTA: I'll let you go then.

16 KEVIN QUINLAN: All right, thanks.

17 TOM GALLETTA: Bye.

18 KEVIN QUINLAN: Bye.

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**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Japan's Fukushima Daiichi  
PMT RAAD ASST Director Audio Files

Docket Number: N/A

Location: N/A

Date: March 15, 2011

Work Order No.: NRC-4222

Pages 1-62

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JAPAN'S FUKUSHIMA DAIICHI  
PMT RAAD ASST DIRECTOR AUDIO FILES

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THURSDAY,  
MARCH 15, 2011

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(CONFERENCE CALL INITIATED)

MICHELLE HART: PMT, this is Michelle Hart.

MALE PARTICIPANT: Okay. I've got Jeff Kowalczyk for you. Hold on.

MICHELLE HART: Hello?

JEFF KOWALCZYK: Hello.

MICHELLE HART: Hello. Who is this?

JEFF KOWALCZYK: This is Jeff Kowalczyk, the NRC rep at the ASID.

MICHELLE HART: Okay.

JEFF KOWALCZYK: I had a quick question. I know you guys are in the middle of doing tons of dose analysis, but I just had a quick question. We were on an interagency call and DOE stated that they had to --

(b)(5)

MICHELLE HART: Yes.

JEFF KOWALCZYK: And I just wanted to see

(b)(5)

MICHELLE HART: I am not, but I can find someone who is.

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JEFF KOWALCZIK: Okay.

MICHELLE HART: Can you hold on for a moment?

JEFF KOWALCZIK: Yes, no problem at all.

Thank you.

GREG CASTO: Hi, Jeff, this is Greg Casto.

JEFF KOWALCZIK: Hey, Greg. How are you?

GREG CASTO: Pretty Good.

JEFF KOWALCZIK: Good. Hey, I know you guys are swamped over there with doing these dose analysis.

GREG CASTO: Yes. (Inaudible).

JEFF KOWALCZIK: There was a quick question

(b)(5)

GREG CASTO: I am not.

JEFF KOWALCZIK: Okay.

GREG CASTO: I don't know that we would be the contact you need. (b)(5)

JEFF KOWALCZIK: Yes. Yes, we did and

(b)(5) So I was just --

GREG CASTO: Okay. Okay.

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JEFF KOWALCZIK: I know this isn't the best way to do it.

GREG CASTO: Oh, that's fine. I understand.

JEFF KOWALCZIK: I was just going to see if you were familiar with them.

GREG CASTO: No. I just sat in on the latest briefly we did here that they were en route -- the RAP team was en route.

JEFF KOWALCZIK: Okay.

GREG CASTO: I didn't hear any specific on, you know, what was composed of that group.

JEFF KOWALCZIK: Well, (b)(5)

(b)(5)

GREG CASTO: Okay.

JEFF KOWALCZIK: -- something like that.

GREG CASTO: Yes.

JEFF KOWALCZIK: I just want to make sure

(b)(5)

GREG CASTO: Yes and I am not sure.

JEFF KOWALCZIK: Okay. Not a problem.

(b)(5)

GREG CASTO: Okay.

JEFF KOWALCZIK: But I just wanted to see

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1 if you guys had any of the info.

2 GREG CASTO: Yes. DUE would be your best  
3 -- should be your best contact.

4 JEFF KOWALCZIK: Okay.

5 GREG CASTO: Sorry about that.

6 JEFF KOWALCZIK: No problem at all. Thank  
7 you very much.

8 GREG CASTO: Okay. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TRISH MILLIGAN: NRC, Trish Milligan.

4 MATT KAIZER (phonetic): Yes, ma'am. This  
5 is Matt Kaizer with the Department of Energy Nuclear  
6 Incident Team.

7 TRISH MILLIGAN: Yes, hi. How are you?

8 MATT KAIZER: I'm doing okay. How about  
9 you?

10 TRISH MILLIGAN: Well, I've been better.

11 MATT KAIZER: I understand. So, NARAC is  
12 trying to generate --

13 TRISH MILLIGAN: Right.

14 MATT KAIZER: -- a model.

15 TRISH MILLIGAN: Yeah.

16 MATT KAIZER: And we don't quite have time  
17 to integrate the true source terms. So, we're trying  
18 to do our best to hack --

19 TRISH MILLIGAN: Right.

20 MATT KAIZER: -- on short time. And, so,  
21 for what's going in Unit 4, the fire in the pool, are  
22 you guys assuming, as far as loads of spent fuel, a number  
23 of loads or a gross weight?

24 TRISH MILLIGAN: No, I believe it was --  
25 let me check. Hang on one second.

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1 MATT KAIZER: Okay. Thank you.

2 TRISH MILLIGAN: When we assumed ten  
3 batches.

4 MATT KAIZER: And that's in?

5 TRISH MILLIGAN: Three batches per core.  
6 So, essentially, you've got three cores.

7 MATT KAIZER: Okay. So you assumed ten --

8 TRISH MILLIGAN: Ten batches of fuel, which  
9 is our default, and there's three batches of fuel bundles  
10 per core. So, basically, you have three cores that we  
11 assume in the fuel pool. And we had some information  
12 that seemed to indicate that fuel was 105 days old.

13 MATT KAIZER: So three batches per core?

14 TRISH MILLIGAN: Yes. So, basically --

15 MATT KAIZER: So, that's essentially three  
16 --

17 TRISH MILLIGAN: Three cores.

18 MATT KAIZER: -- three core loads?

19 TRISH MILLIGAN: Yes. That's what our  
20 default is and that's what we are using, because we had  
21 nothing to -- we have no data, right?

22 MATT KAIZER: Yes. Right. Right.

23 TRISH MILLIGAN: And --

24 MATT KAIZER: No, we have the absence of  
25 a default, so that is better than what we had.

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1 TRISH MILLIGAN: Yes and that's what we're  
2 running with. Now, of course, you know, there's always  
3 the possibility that the rest of these spent fuel pools  
4 are going to go as well. Why wouldn't they?

5 MATT KAIZER: Right.

6 TRISH MILLIGAN: And then we're working that  
7 also as a thought.

8 MATT KAIZER: So, I guess just to be clear,  
9 you can ten batches, which is approximately three cores?

10 TRISH MILLIGAN: Three cores and I --

11 MATT KAIZER: Right.

12 TRISH MILLIGAN: -- understand that, I  
13 believe, it was fuel that was 105 days old.

14 MATT KAIZER: Okay. 105 days old?

15 TRISH MILLIGAN: Yes. Let me just see hear  
16 what it says just to make sure. That number was just  
17 running around and I want to make sure before you hang  
18 up that it's the right number. Let me just double check.  
19 I'll be right back before you hang up.

20 MATT KAIZER: Okay. No problem.

21 TRISH MILLIGAN: Yes. Okay We did 104  
22 days.

23 MATT KAIZER: Okay.

24 TRISH MILLIGAN: Okay.

25 MATT KAIZER: So, three cores, 104 days.

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1 TRISH MILLIGAN: 104 days, because that's  
2 based on their refueling, when they moved the last batch  
3 into the fuel pool.

4 MATT KAIZER: Okay. Excellent Thank you  
5 very much.

6 TRISH MILLIGAN: Okay. Thank you. Bye.

7 MATT KAIZER: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 FEMALE PARTICIPANT: Task Force.

4 RANDY SULLIVAN: Yeah, I was looking for  
5 Matthew Sharp.

6 FEMALE PARTICIPANT: Just a moment.

7 MATTHEW SHARP: This is Matthew.

8 RANDY SULLIVAN: Hold one. Thank you.

9 (Pause)

10 RANDY SULLIVAN: Hey, Matthew Sharp?

11 MATTHEW SHARP: Yes.

12 RANDY SULLIVAN: Randy Sullivan again, NRC  
13 Protective Measures Team.

14 MATTHEW SHARP: Hi. How are you, Randy?

15 RANDY SULLIVAN: It seemed like we owed you  
16 one more thing or did you get everything you needed?

17 MATTHEW SHARP: Well, I had a question on  
18 measurements of dose-rate measurements. The last thing  
19 that we have is 10:30 in the morning on the 15th at 400  
20 millisievert. I'm wondering if you guys have seen  
21 anything since then before we --

22 RANDY SULLIVAN: We have data from 3/15 at  
23 about the same. Yes, we got a fax timed 3/14/11 at 23:37.

24 That's probably the same information you've got.

25 MATTHEW SHARP: Sorry. Say the timestamp

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1 once more? It's the date and --

2 RANDY SULLIVAN: 3/14, yesterday, at 23:37.

3 MATTHEW SHARP: Oh, okay.

4 RANDY SULLIVAN: Probably the same stuff  
5 you have?

6 MATTHEW SHARP: Yeah. So, these are both  
7 things coming from TEPCO, right?

8 RANDY SULLIVAN: Yes. You know, I'm getting  
9 it from a guy named Michael Chitworth (phonetic). I  
10 don't even know who that is.

11 MATTHEW SHARP: Is he at the post?

12 RANDY SULLIVAN: At the post?

13 MATTHEW SHARP: I'm sorry. Is he in Tokyo,  
14 at the Embassy, or --

15 RANDY SULLIVAN: I don't think so. It's  
16 a (b)  
(6) number. I imagine he's in your office.

17 MATTHEW SHARP: Okay.

18 RANDY SULLIVAN: (b)(6) Well,  
19 anyway, that's what's scribbled on here. I don't know.  
20 No, I'm sorry. I've got the number. No, I've got the  
21 to number, not the from number.

22 MATTHEW SHARP: I see. No, I think it  
23 probably doesn't mater. We're all seeing the same stuff.

24 RANDY SULLIVAN: :Yes.

25 MATTHEW SHARP: The numbers are all --

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1 RANDY SULLIVAN: That's the latest I have  
2 and it shows, you know, up to about 300 millirem from  
3 time to time, you know, back in the past. So, that's  
4 the most current we have.

5 MATTHEW SHARP: Okay. Can I ask one more  
6 question?

7 RANDY SULLIVAN: Sure.

8 MATTHEW SHARP: Are you the guys who are  
9 actually going to be running plume models and --

10 RANDY SULLIVAN: Well, we are running plume  
11 models. We're trying to coordinate with DOE, who's  
12 running plume modes, and it seems like DTRA or somebody's  
13 running plume models. So, there's a lot of plume models.

14 MATTHEW SHARP: So, I think, whenever you  
15 guys are done, you know, we were told in the next hour  
16 or so something from NRC would be delivered as a plume  
17 model and I'm trying kind of prepare for what's likely  
18 to come over here and that we're going to need to be  
19 ready to understand.

20 RANDY SULLIVAN: I'm sorry. I'm unaware  
21 of all that.

22 MATTHEW SHARP: Okay.

23 RANDY SULLIVAN: But yes, (b)(5)

24 (b)(5)

25 protective action recommendation doses. I mean --

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1 MATTHEW SHARP: But based on some number  
2 of scenarios or will you guys --

3 RANDY SULLIVAN: Well, there's a spent fuel  
4 pool burning, right? I mean, you've heard all that,  
5 right?

6 MATTHEW SHARP: Well, yes, we've heard that  
7 it's burning. Now, the NHK's saying that maybe the fire's  
8 out.

9 RANDY SULLIVAN: That'd be good, but it  
10 wouldn't have gone out by itself.

11 MATTHEW SHARP: Right.

12 RANDY SULLIVAN: I'm sorry. Who's saying  
13 it's out?

14 MATTHEW SHARP: This is NHK. We're getting  
15 this from the press.

16 RANDY SULLIVAN: Who's NHK?

17 MATTHEW SHARP: NHK's a Japanese --

18 RANDY SULLIVAN: Okay. Well, it wouldn't  
19 have gone out by itself. I'll tell you that much.  
20 If there's mitigative action, then, yes, great. But  
21 if they weren't putting water or something on it, it  
22 wouldn't have gone out.

23 MATTHEW SHARP: Right.

24 RANDY SULLIVAN: So, I'm a little concerned  
25 about that.

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1 MATTHEW SHARP: Okay. Well, this is all  
2 very useful. Thanks very much for getting back to me.

3 RANDY SULLIVAN: Okay. Good.  
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(CONFERENCE CALL INITIATED)

CAREY NERU (phonetic): Hello.

PATRICIA MILLIGAN: Hello. IRSN?

CAREY NERU: Yes.

PATRICIA MILLIGAN: Hi, Patricia Milligan,  
Nuclear Regulatory Commission.

CAREY NERU: Oh, hi. It's Carey Neru.

PATRICIA MILLIGAN: Hey, how are you?

CAREY NERU: Fine, thank you. Oh, fine.

PATRICIA MILLIGAN: Too bad to be talking  
to you like this.

CAREY NERU: Yes, sure. Okay. So, yes, we  
are ready. I have one colleague, (inaudible) on with  
me.

PATRICIA MILLIGAN: Okay.

CAREY NERU: So, maybe we can make through  
the point on the reactor stages and review in some our  
evaluation.

PATRICIA MILLIGAN: Sure. I need to tell  
you, this is a recorded like that you're on right now.

CAREY NERU: Yes. Sure.

PATRICIA MILLIGAN: Okay.

CAREY NERU: This is a recorded line. Is  
this okay for you?

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1 PATRICIA MILLIGAN: Yes, that's absolutely  
2 fine.

3 CAREY NERU: Okay.

4 PATRICIA MILLIGAN: Okay.

5 CAREY NERU: I don't know. We stopped on  
6 the Daiichi Fukushima one.

7 PATRICIA MILLIGAN: Yes.

8 CAREY NERU: On the reactor one and two,  
9 we have information which should be consumed on the score.

10 Is it covered by water or not?

11 PATRICIA MILLIGAN: As far as we know, it's  
12 not.

13 CAREY NERU: It's not?

14 PATRICIA MILLIGAN: No.

15 CAREY NERU: On both?

16 1 PATRICIA MILLIGAN: Right.

17 CAREY NERU: Reactor one and two?

18 PATRICIA MILLIGAN: What I have heard is  
19 that they had been trying to pump and even had brought  
20 in some fire truck pumps.

21 CAREY NERU: Yes.

22 PATRICIA MILLIGAN: And, apparently they've  
23 pumped those fire trucks until they burnt the motors.

24 CAREY NERU: Oh, they broke the motors.

25 PATRICIA MILLIGAN: Yes.

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1 CAREY NERU: Okay. And there was --

2 PATRICIA MILLIGAN: That's what I --

3 CAREY NERU: -- two trucks, I think, on site?

4 PATRICIA MILLIGAN: Yes.

5 CAREY NERU: And both have broken the motors?

6 PATRICIA MILLIGAN: Yes. I understand

7 that's what happened.

8 CAREY NERU: Okay.

9 PATRICIA MILLIGAN: So, I understand, at  
10 this point, they're not pumping any water. I also  
11 understand that they evacuated the operators from the  
12 site due to high RAD readings.

13 CAREY NERU: Yes. We have information, also.  
14 Okay.

15 PATRICIA MILLIGAN: Okay.

16 CAREY NERU: And regarding the containment,  
17 have the valves for the preservation of the containment  
18 RST open or --

19 PATRICIA MILLIGAN: We are right now trying  
20 to determine. We believe, based on we have two NRC staff  
21 that are with the American Embassy right now --

22 CAREY NERU: Yeah.

23 PATRICIA MILLIGAN: -- and in Tokyo and  
24 they've been working closely with NNSA and others and,  
25 based on their conversations, they believe that we have

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1 failed containment. We actually have XSL situation in  
 2 Unit 2. Now, we talked to General Electric. They believe  
 3 that that didn't happen, that what we saw was a failure  
 4 of instrumentation. We are trying to discern where we  
 5 are. We believe that our inferences are correct, because  
 6 we see such high RAD readings, at the site boundary and  
 7 in other areas and some of the monitoring points, which  
 8 would lead us to believe that, in fact, we do have this  
 9 kind of critical situation where we have XSL --

10 CAREY NERU: I see. So, we have dose rates  
 11 --

12 PATRICIA MILLIGAN: Very high dose rates  
 13 that are not consistent with a failed monitor.

14 CAREY NERU: No.

15 PATRICIA MILLIGAN: So, right now, we're  
 16 operating under the assumption that, in fact, the  
 17 containment has failed in Unit 2.

18 CAREY NERU: Yeah. Yeah.

19 PATRICIA MILLIGAN: And so that's where we  
 20 are. If we hear anything differently, we would let you  
 21 know, but we have nothing to indicate that it's simply  
 22 a pressure failure. (b)(5)

23 (b)(5)

24  
 25 So, we're trying to sort out that. (b)(5)

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(b)(5)

1  
2 CAREY NERU: Okay.

3 PATRICIAMILLIGAN: Now, the high does rates,  
4 given the monitoring points, you know, there could be  
5 something else going on that we don't know about, right?

6 CAREY NERU: Yes, sure.

7 PATRICIA MILLIGAN: It's reasonable to  
8 believe that the other spent fuel pools may also be  
9 uncovered.

10 CAREY NERU: Yes. Do you know if there was  
11 fuel in the Reactor 3 fuel pool?

12 A No, we don't. We believe that there was.  
13 We do know that they moved fuel from Unit 5 into Unit  
14 4 fuel pool and combined those fuel pools, but we don't  
15 have any idea as to any specific information on what's  
16 in each fuel pool.

17 CAREY NERU: Okay. Okay.

18 PATRICIA MILLIGAN: We do know that the most  
19 recent fuel that's in Unit 4's fuel pool is 105 days.

20 CAREY NERU: Okay.

21 PATRICIA MILLIGAN: So there's some  
22 discussion as to whether or not that fuel would be able  
23 to burn or not, but we don't know how it was racked or  
24 how it was configured.

25 CAREY NERU: Okay. We have evaluated the

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1 total --

2 PATRICIA MILLIGAN: Yes.

3 CAREY NERU: -- to approximately one  
4 thousandth of the core inventory.

5 PATRICIA MILLIGAN: Okay.

6 CAREY NERU: And, so, we have tabulate for  
7 the Reactor 2 --

8 PATRICIA MILLIGAN: Yes.

9 CAREY NERU: -- with the hole in the  
10 containment --

11 PATRICIA MILLIGAN: Yes.

12 CAREY NERU: -- and, maybe, I can give you  
13 the soft terms?

14 PATRICIA MILLIGAN: Okay.

15 CAREY NERU: I'm showing (inaudible) in  
16 noble gases is 210 plus the 17 becquerel.

17 PATRICIA MILLIGAN: Okay.

18 CAREY NERU: In stadium, it's nine pounds,  
19 710 to 14.

20 PATRICIA MILLIGAN: Okay.

21 CAREY NERU: And iodine's 810 to 15.

22 PATRICIA MILLIGAN: Okay.

23 CAREY NERU: And for helium, it's 2.710 to  
24 15 becquerel.

25 PATRICIA MILLIGAN: Okay.

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1 CAREY NERU: So, this corresponds to a  
2 potential five to ten percent of emission of all active  
3 products.

4 PATRICIA MILLIGAN: Right.

5 CAREY NERU: Okay?

6 PATRICIA MILLIGAN: Right. Okay.

7 CAREY NERU: And we did not compute any  
8 efficiency of the suppression pool.

9 PATRICIA MILLIGAN: No, we didn't either.  
10 We just assumed by the time your x-vessel that you have  
11 no efficiency for any kind of scrubbing.

12 CAREY NERU: Yeah, sure.

13 PATRICIA MILLIGAN: Yeah.

14 CAREY NERU: So, this is our impetus and,  
15 so, we have calculated those in the vicinity --

16 PATRICIA MILLIGAN: Yeah.

17 CAREY NERU: -- of the scan.

18 PATRICIA MILLIGAN: Okay.

19 CAREY NERU: So, I'll let my colleague tell  
20 you.

21 PATRICIA MILLIGAN: Okay.

22 MALE PARTICIPANT: Considering the wind is  
23 about five meters per second --

24 PATRICIA MILLIGAN: Yes.

25 MALE PARTICIPANT: -- the doses are about

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1 450 millisievert as a effective dose at one kilometer.

2 PATRICIA MILLIGAN: Okay.

3 MALE PARTICIPANT: Four hundred and fifty.

4 PATRICIA MILLIGAN: Okay.

5 MALE PARTICIPANT: Two kilometers is 125

6 --

7 PATRICIA MILLIGAN: Okay.

8 MALE PARTICIPANT: -- effective dose and  
9 five kilometers, 23.

10 PATRICIA MILLIGAN: Five kilometers was 23?

11 MALE PARTICIPANT: Yes.

12 PATRICIA MILLIGAN: Okay.

13 MALE PARTICIPANT: Ten kilometers around  
14 seven.

15 PATRICIA MILLIGAN: Did your calculations  
16 consider wind shifts that are projected to occur or is  
17 this persistent wind direction?

18 MALE PARTICIPANT: It's a persistent wind  
19 direction.

20 PATRICIA MILLIGAN: Okay.

21 MALE PARTICIPANT: During the main release,  
22 which is, well, about a few hours.

23 PATRICIA MILLIGAN: Okay.

24 MALE PARTICIPANT: The duration of the main  
25 release is a few hours.

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1 PATRICIA MILLIGAN: Okay.

2 MALE PARTICIPANT: And we consider a  
3 constant wind direction --

4 PATRICIA MILLIGAN: Okay.

5 MALE PARTICIPANT: -- during this and it  
6 is five meters and the atmosphere is considered unstable.

7 PATRICIA MILLIGAN: Unstable. Okay.

8 MALE PARTICIPANT: Unstable, yes.

9 PATRICIA MILLIGAN: Okay.

10 MALE PARTICIPANT: Dose of the thyroid is  
11 6,000 at one kilometer.

12 PATRICIA MILLIGAN: Okay.

13 MALE PARTICIPANT: One thousand and seven  
14 hundred at two kilometers.

15 PATRICIA MILLIGAN: Okay.

16 MALE PARTICIPANT: Three hundred at five  
17 kilometers.

18 PATRICIA MILLIGAN: Okay.

19 MALE PARTICIPANT: One hundred at ten.

20 PATRICIA MILLIGAN: Okay.

21 MALE PARTICIPANT: So we see the dose  
22 corresponding to the fuel spill we had.

23 PATRICIA MILLIGAN: Okay.

24 CAREY NERU: And we have long-distance  
25 calculation but they are now under performing.

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1 MALE PARTICIPANT: Yes. Yes. We are doing  
2 long-distance dose calculation, but we need two more  
3 hours to get the results.

4 PATRICIA MILLIGAN: Okay. Okay. We have  
5 some pretty good general agreement in what we're looking  
6 at, in terms of our doses. And obviously, we report  
7 ours in rem and we assumed x-vessel through the dry well  
8 wall with no suppression scrubbing at all and a complete  
9 unfiltered pathway. We assumed a total failure, so ours  
10 is a little on the conservative side with our source  
11 term and with our resulting calculations. Let me see  
12 here. At, essentially, 1.5 kilometers, we had -- I'm  
13 just going to give it to you in rem because my brain's  
14 not working very well.

15 CAREY NERU: Yes.

16 PATRICIA MILLIGAN: We had 1,700 rem, based  
17 on our calculation, which is a conservative calculation.

18 CAREY NERU: Okay.

19 MALE PARTICIPANT: Yes. As effective dose?

20 PATRICIAMILLIGAN: As totaleffectivedose.  
21 This is a four-day dose.

22 MALE PARTICIPANT: Four-day dose.

23 PATRICIA MILLIGAN: Four-day does, yes.

24 MALE PARTICIPANT: That does need to be  
25 calculated at 24-hour doses.

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1 PATRICIA MILLIGAN: Twenty-four hours.

2 Okay. So --

3 MALE PARTICIPANT: Yes.

4 PATRICIA MILLIGAN: -- we're talking the  
5 same kind of numbers here. When we're out at, essentially,  
6 five kilometers, we were at 440 rem, again, a four-day  
7 dose. At eight kilometers, we were at 87 rem and, then,  
8 at 16 kilometers, we were about four rem.

9 MALE PARTICIPANT: Okay.

10 PATRICIA MILLIGAN: And for the thyroid,  
11 at 1.6, we had about 3,000 rem for a thyroid and we're  
12 looking at an adult thyroid, not a child thyroid. That's  
13 how we do our calculation. We're looking at eight  
14 kilometers, we had 100 rem. At ten kilometers, we had  
15 7.2 rem. Now, we had some maximum distances out to 80  
16 kilometers for doses and, at 50 kilometers, we had .17  
17 rem as our TEDE, again, a four-day dose and our thyroid  
18 was 3.5 rem.

19 We had assumed, when we did this, since it's a  
20 four-day dose, we had a little bit of wind that was bouncing  
21 around and some shifts, and so that was included.

22 MALE PARTICIPANT: Yes.

23 PATRICIA MILLIGAN: Then, we also considered  
24 the light rain and precipitation that was called for.

25 CAREY NERU: Okay.

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MALE PARTICIPANT: Okay.

PATRICIA MILLIGAN: So we've got those kinds of numbers and we're seeing very high numbers on-site, as well.

MALE PARTICIPANT: Yes.

PATRICIA MILLIGAN: So C

MALE PARTICIPANT: Okay.

PATRICIA MILLIGAN: (b)(5)

(b)(5)

MALE PARTICIPANT: (b)(5)

PATRICIA MILLIGAN: (b)(5)

(b)(5)

MALE PARTICIPANT: (b)(5)

(b)(5)

PATRICIA MILLIGAN: (b)(5)

Yes. Let me see here. Where are they? I'm looking through this log to see where the values were. Ask Lou. Hang on one second. Let me just get this data for you. One second. I was looking in the wrong place.

CAREY NERU: Okay.

(Pause)

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PATRICIA MILLIGAN: Okay. Can you hang one second?

(Pause)

PATRICIA MILLIGAN: Okay.

(b)(5)

(b)(5)

MALE PARTICIPANT:

(b)(5)

PATRICIA MILLIGAN:

(b)(5)

(b)(5)

MALE PARTICIPANT: All right.

PATRICIA MILLIGAN:

(b)(5)

(b)(5)

MALE PARTICIPANT: Okay.

CAREY NERU: We are waiting for a dose rate.

All we need now is the American and France Embassies

--

PATRICIA MILLIGAN: Yes.

CAREY NERU: -- in Tokyo, now. So is trying to get also dose rate measurements.

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1 PATRICIA MILLIGAN: Okay.

2 CAREY NERU: Maybe we can exchange e-mail  
3 address, so we can send? --

4 PATRICIA MILLIGAN: That would be great.

5 CAREY NERU: -- to you some residual dose  
6 rates and, if you have, also, which would be great I  
7 think.

8 PATRICIA MILLIGAN: Okay. Let me get you  
9 the e-mail address to send to.

10 CAREY NERU: Yes.

11 PATRICIA MILLIGAN: Hang on one second.

12 (Pause)

13 PATRICIA MILLIGAN: Okay. The e-mail  
14 address would be pmt09.hoc@nrc.gov.

15 CAREY NERU: Okay. And IRSN one is  
16 ttc@irsn.fr.

17 PATRICIA MILLIGAN: Okay. And when we get  
18 our information, we will e-mail that to you.

19 CAREY NERU: Okay. That's fine and, if you  
20 want to make a new point by (inaudible), we are 24 hours  
21 on duty here.

22 PATRICIA MILLIGAN: Okay. Very good.

23 CAREY NERU: I have one more question on  
24 the reactor's core.

25 PATRICIA MILLIGAN: Okay.

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1 CAREY NERU: We heard about a fire.

2 PATRICIA MILLIGAN: Yes.

3 CAREY NERU: Do you know if it was linked  
4 to an explosion? We are not really sure about it.

5 PATRICIA MILLIGAN: No. We're on a call  
6 right now with NNSA and we're trying to find that  
7 information out.

8 CAREY NERU: Okay.

9 PATRICIA MILLIGAN: So, we can include that  
10 in our e-mail to you, or we can call you back with that  
11 information.

12 CAREY NERU: Okay. Because we heard that  
13 there was an explosion, but really we don't see evidence  
14 of that.

15 PATRICIA MILLIGAN: Yes. We're trying to  
16 figure that out right now.

17 CAREY NERU: Okay. Okay.

18 PATRICIA MILLIGAN: Okay.

19 CAREY NERU: So we'll keep in contact.

20 PATRICIA MILLIGAN: Very good.

21 CAREY NERU: Thanks a lot.

22 PATRICIA MILLIGAN: I'll talk to you soon.

23 Okay. Bye bye.

24 CAREY NERU: Yes. Bye bye.

25

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(CONFERENCE CALL INITIATED)

MICHELLE HART: The PMT, this is Michelle Hart.

MALE PARTICIPANT: Hi. I've got Linda Howell on the phone from Region 4. She wants to talk to somebody there.

MICHELLE HART: Is there anybody in particular she wants to talk to or --

MALE PARTICIPANT: I --

MICHELLE HART: -- what is this regarding?

MALE PARTICIPANT: I don't know.

MICHELLE HART: You don't know?

MALE PARTICIPANT: Why don't you ask her?

MICHELLE HART: Just pass her through.

(Pause)

MICHELLE HART: Hello? Hello?

LINDA HOWELL: Hello.

MICHELLE HART: Hello? Is someone there?

LINDA HOWELL: Yes. Hi. It's Linda.

MICHELLE HART: Linda?

LINDA HOWELL: Yes. Who am I talking with?

MICHELLE HART: This is Michelle Hart. I'm in the headquarters operations center.

LINDA HOWELL: Oh, okay. Hi. Hey, I wanted

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1 to double check a couple notes that I made from tonight's  
2 conference call codes. Chuck has those in our area and  
3 he's ready to deploy with his team. Site boundary dose  
4 codes that we had on Unit 4 and 2 and 3 pools, do you  
5 know what those are?

6 MICHELLE HART: Do you know the units'  
7 site-boundary doses? Who has the units' site-boundary  
8 doses?

9 MICHELLE HART: Okay. Around Unit 4 we have  
10 ten R per hour, at the site boundary.

11 LINDA HOWELL: Okay.

12 MICHELLE HART: And that's all the  
13 information I have right at the moment.

14 LINDA HOWELL: Oh, okay.

15 MICHELLE HART: We had more, but I don't  
16 have them in front of me, unfortunately.

17 LINDA HOWELL: Okay. I have the Units 2  
18 and 3 and it seems like on the order of 3 to 4 we have  
19 to go out. Does that sound right?

20 MICHELLE HART: That sounds right.

21 LINDA HOWELL: Okay.

22 MICHELLE HART: And this was a while ago.

23 LINDA HOWELL: Yeah. Right.

24 MICHELLE HART: Right after there was a  
25 mention that there was a spent fuel fire.

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1 LINDA HOWELL: Okay. Got it. All right.  
2 MICHELLE HART: All right.  
3 LINDA HOWELL: So, I'm all set. Appreciate  
4 it.  
5 MICHELLE HART: All right. Thank you.  
6 LINDA HOWELL: Thanks.  
7 MICHELLE HART: Bye.  
8 LINDA HOWELL: Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: Hello.

4 PATRICIA MILLIGAN: Hello. Is this IRSN?

5 MALE PARTICIPANT: Yes, this is IRSN --

6 PATRICIA MILLIGAN: Yes. Hi.

7 MALE PARTICIPANT: -- technical crisis  
8 center.

9 PATRICIA MILLIGAN: Patricia Milligan,  
10 Nuclear Regulatory Commission. This is a recorded line.

11 MALE PARTICIPANT: Yes. Our line is  
12 recorded, also.

13 PATRICIA MILLIGAN: Okay. We are calling  
14 you back because you had a request for information some  
15 information from us.

16 MALE PARTICIPANT: Yes.

17 PATRICIA MILLIGAN: And I'm happy to see  
18 if I can answer your questions.

19 MALE PARTICIPANT: Okay.

20 PATRICIA MILLIGAN: I apologize for the  
21 delay in getting back with you, but we got hung up on  
22 some other stuff here.

23 MALE PARTICIPANT: Okay. I need to warn  
24 my colleagues --

25 PATRICIA MILLIGAN: Okay.

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1 MALE PARTICIPANT: -- to call them to discuss  
2 with you.

3 PATRICIA MILLIGAN: Okay.

4 MALE PARTICIPANT: And it would be better  
5 if I give you another number --

6 PATRICIA MILLIGAN: Oh, okay.

7 MALE PARTICIPANT: -- which is connected  
8 to our audio-conferencing device.

9 PATRICIA MILLIGAN: Okay.

10 MALE PARTICIPANT: It will be easier for  
11 us. So, what I suggest, I have to check for the number  
12 for the other device.

13 PATRICIA MILLIGAN: Okay.

14 MALE PARTICIPANT: And, then, I'll give you  
15 the number and you call us back in five minutes --

16 PATRICIA MILLIGAN: Absolutely.

17 MALE PARTICIPANT: -- and everybody will  
18 be there.

19 PATRICIA MILLIGAN: Okay.

20 MALE PARTICIPANT: Okay. So, don't quit.

21 I am going to check for the number.

22 PATRICIA MILLIGAN: Okay. Thank you very  
23 much.

24 (Pause)

25 MALE PARTICIPANT: Hello.

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1 PATRICIA MILLIGAN: Hello.

2 MALE PARTICIPANT: So, the number is

3 (b)(6)

4 PATRICIA MILLIGAN: (b)(6) Okay.

5 MALE PARTICIPANT: Okay. In five minutes?

6 PATRICIA MILLIGAN: I'll call you back in  
7 five minutes. Thank you.

8 MALE PARTICIPANT: Thank you very much.

9 PATRICIA MILLIGAN: Okay. Bye bye.

10 MALE PARTICIPANT: Bye Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 RANDY SULLIVAN: NRC PMT, Randy Sullivan.

4 MATTHEW SHARP: Hi. It's Matthew Sharp from  
5 the State Department, Japan Task Force. I'm trying to  
6 get a hold of Aby Mohseny.

7 RANDY SULLIVAN: Yes. Aby's gone home for  
8 the night. Would you like his replacement?

9 MATTHEW SHARP: Whoever's doing whatever  
10 he was doing before.

11 RANDY SULLIVAN: Yes. Right. That you?  
12 Maybe not?

13 MATTHEW SHARP: All right. What I'm trying  
14 to do is track down basic information from you guys about  
15 what you see the current status of reactors 2 and 4 and  
16 --

17 RANDY SULLIVAN: Right.

18 MATTHEW SHARP: -- a little bit more detail  
19 on those.

20 RANDY SULLIVAN: Yes. So, you're looking  
21 for reactor status information?

22 MATTHEW SHARP: Exactly.

23 RANDY SULLIVAN: Yes.

24 (Pause)

25 RANDY SULLIVAN: Hi. I need to get you into

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1 our reactor team. We're the RAD guys. So, give me your  
2 number and I'll wander over there right now and I'll  
3 have them call you.

4 MATTHEW SHARP: Okay.

5 RANDY SULLIVAN: But I need something to  
6 write with, so give me half a second.

7 MATTHEW SHARP: Sure.

8 RANDY SULLIVAN: It's just a mess here.  
9 Name and number, please?

10 MATTHEW SHARP: It's Matthew Sharp. I'm  
11 the ISN.

12 RANDY SULLIVAN: Matthew Sharp.

13 MATTHEW SHARP: On the ISN desk.

14 RANDY SULLIVAN: ISN and we're talking  
15 State?

16 MATTHEW SHARP: Yes and the number is  
17 202-647-6611.

18 RANDY SULLIVAN: 6611?

19 MATTHEW SHARP: Correct.

20 RANDY SULLIVAN: 202-647-6611.

21 MATTHEW SHARP: That's right.

22 RANDY SULLIVAN: I'll ask them to call you  
23 immediately.

24 MATTHEW SHARP: Thanks very much.

25 RANDY SULLIVAN: Sure thing.

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(CONFERENCE CALL INITIATED)

SMITH: Naval Reactors, Smith.

CYNTHIA JONES: Yes. Hello. Is this Naval Reactors?

SMITH: Yes.

CYNTHIA JONES: Yes. Hi. This is Cynthia Jones with the Nuclear Regulatory Commission.

SMITH: Yes.

CYNTHIA JONES: We're trying to ask that you join in a conference call that we're having right now with the NIC and that number is 877-336-1274.

SMITH: Okay. 877-336-1274?

CYNTHIA JONES: Yes. And here's the pin number.

SMITH: Okay.

CYNTHIA JONES: It's (b)(6)

SMITH: (b)(6)

CYNTHIA JONES: No. (b)(6)

SMITH: (b)(6)

CYNTHIA JONES: Yes.

SMITH: Okay.

CYNTHIA JONES: Great. Thank you very much.

SMITH: Thank you.

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1  
2 (CONFERENCE CALL INITIATED)

3 CINDY JONES: Cindy Jones, PMT.

4 MICHAEL DUDEK: Hi, Cindy. This is Michael  
5 Dudek down here at USAID.

6 CINDY JONES: Yes. Hi, Mike.

7 MICHAEL DUDEK: I got a call from a gentleman  
8 at FEMA from the Urban Search and Rescue Division named  
9 Dave Webb, W-E-B-B. He was looking for some information  
10 on protective action recommendations. I gave him the  
11 information that, you know, we're following the Japanese  
12 guidance, at this time. You know, that is appropriate.  
13 We've done our analysis.

14 CINDY JONES: That is correct.

15 MICHAEL DUDEK: He just wanted some  
16 additional bullets on -- I think he was looking for current  
17 and worst-case estimates (b)(5)

18 (b)(5)

19  
20 CINDY JONES: And you said his name was Dave  
21 Webb, at FEMA?

22 MICHAEL DUDEK: Yes.

23 CINDY JONES: And what's his phone number?

24 MICHAEL DUDEK: 202 --

25 CINDY JONES: Yes.

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1 MICHAEL DUDEK: -- 646 --

2 CINDY JONES: 646.

3 MICHAEL DUDEK: -- 3456.

4 CINDY JONES: 3456. Protective measures  
5 and bullets?

6 MICHAEL DUDEK: Yes.

7 CINDY JONES: Okay. Well, we're all working  
8 on what it is, currently. We just got some new met data  
9 and, also, what it would be for worst case. So, we're  
10 working that now.

11 MICHAEL DUDEK:

(b)(5)

(b)(5)

13 CINDY JONES: Yes. I don't think we're in  
14 the process of doing that anyway. We have to get  
15 information from NARAC first.

16 MICHAEL DUDEK: I'd give him some general  
17 bullets, just kind of tell him what good recommendations  
18 are and what the Japanese are recommending and I imagine  
19 he'll give you a little more specificity on what he's  
20 looking for. But you guys would be the people to talk  
21 to, not me.

22 CINDY JONES: Okay.

23 MICHAEL DUDEK: All right.

24 CINDY JONES: We'll do it and it's  
25 202-646-3456?

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MICHAEL DUDEK: That's correct and his  
name's Dave.

CINDY JONES: Okay. Thanks.

MICHAEL DUDEK: All right. Bye.

CINDY JONES: Bye bye.

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(CONFERENCE CALL INITIATED)

STACEY ROSENBERG: Hello. NRC

Headquarters Operations Center, Protective Measures Team,  
Stacey Rosenberg speaking.

KRISTEN CUTLER (phonetic): Hi, Stacey.

This is Kristen Cutler at the Department of State, in  
our Ops Center.

STACEY ROSENBERG: Hi. You know, I can  
barely hear you. Hold on a second.

KRISTEN CUTLER: Okay. Sorry.

STACEY ROSENBERG: Okay.

KRISTEN CUTLER: This is Kristen Cutler at  
the Ops Center at State Department.

STACEY ROSENBERG: Yes.

KRISTEN CUTLER: One of our people here was  
just in a meeting with HHS and NRC and others and there  
was a NRC report on the weather conditions over Japan  
right now with relation to the position of the reactors  
and whatnot and they wanted to confirm that it was, in  
fact, NRC that gave this readout that it's currently  
raining there, that snow could occur, the winds are  
currently going inland, but are predicted to --

STACEY ROSENBERG: Okay. The only thing  
that I have is the Japan weather forecast from The Weather

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1 Underground and it is supposed to be -- hold on. You  
2 know, this phone doesn't reach over there.

3 KRISTEN CUTLER: Oh, okay.

4 STACEY ROSENBERG: Can you hold on one sec?

5 KRISTEN CUTLER: Yes.

6 (Pause)

7 STACEY ROSENBERG: Hi. I'm sorry. Yes.  
8 I have information from The Weather Underground web site.

9 KRISTEN CUTLER: Oh, it's a web site?

10 STACEY ROSENBERG: Yes.

11 KRISTEN CUTLER: Is that what the person  
12 was quoting or referencing during that conference call?

13 I'm not sure if it was somebody from your group that  
14 was on that conference call with the HHS.

15 STACEY ROSENBERG: Were we on a conference  
16 call with HHS? When was this?

17 KRISTEN CUTLER: About half-an-hour ago,  
18 hour ago.

19 STACEY ROSENBERG: I --

20 KRISTEN CUTLER: And Department of State  
21 and others.

22 STACEY ROSENBERG: I'm not aware of that  
23 call.

24 KRISTEN CUTLER: Okay. So, the weather  
25 that you guys are using for your modeling and whatnot

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1 --

2 STACEY ROSENBERG: Yes.

3 KRISTEN CUTLER: -- comes from The Weather  
4 Underground?

5 STACEY ROSENBERG: Well, we get it from The  
6 Weather Underground and we're also getting it from DOE  
7 NARAC, but we're only getting updates, like, once every  
8 six hours. So, The Weather Underground has updated  
9 information every three hours.

10 KRISTEN CUTLER: And what is that? Is that  
11 just a web site I can go onto or who put that out?

12 STACEY ROSENBERG: I think it's just  
13 underground.com. Hold on. It's [www.wunderground.com](http://www.wunderground.com).

14 KRISTEN CUTLER: Okay.

15 STACEY ROSENBERG: And, then, you can go  
16 to which location you're looking for.

17 KRISTEN CUTLER: Okay. So, you suspect that  
18 the NRC, in general, is using the data from that?

19 STACEY ROSENBERG: Yes. And the data from  
20 that has been very consistent with what we're getting  
21 from DOE NARAC.

22 KRISTEN CUTLER: Okay. And, then, I had  
23 another question. As I understand it, there was a spike  
24 in the radiation levels at about 400,000 microsieverts  
25 per hour earlier in the day?

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1 STACEY ROSENBERG: How many?

2 KRISTEN CUTLER: 400,000.

3 STACEY ROSENBERG: 400,000?

4 KRISTEN CUTLER: Microsieverts per hour.

5 STACEY ROSENBERG: 400,000 microsieverts  
6 per hour?

7 KRISTEN CUTLER: Yes, or 400 millisieverts.

8 Yes. And that these levels, then, resumed down. So,  
9 it goes up from about 900 to 8,000 and, then, this peak  
10 of about 400,000 and, then, down to about 600. I spoke  
11 to somebody over at DOE and they knew what I was talking  
12 about and they thought that, possibly, that peak was  
13 correlated to releasing the pressure at the plant and  
14 that the spike could have correlated to that. But is  
15 sounds like --

16 STACEY ROSENBERG: I don't have number like  
17 that.

18 KRISTEN CUTLER: Yes. And your radiation  
19 levels are at the plant site, itself?

20 STACEY ROSENBERG: We don't have anything  
21 confirmed. You know, we have what's been reported on  
22 the television. We have reports from the IAEA.

23 KRISTEN CUTLER: Okay.

24 STACEY ROSENBERG: Yes.

25 KRISTEN CUTLER: Okay.

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1 STACEY ROSENBERG: But we didn't have  
2 anything like the numbers that you're quoting.

3 KRISTEN CUTLER: Yes. Yes. Okay. Okay.

4 STACEY ROSENBERG: I think there was a spike,  
5 but we don't have anything that high.

6 KRISTEN CUTLER: Okay. All right.

7 STACEY ROSENBERG: Can you give me your  
8 information again, please?

9 KRISTEN CUTLER: The information on the --

10 STACEY ROSENBERG: On who you are?

11 KRISTEN CUTLER: Oh, Kristen Cutler at  
12 Department of State.

13 STACEY ROSENBERG: Okay.

14 KRISTEN CUTLER: So, basically, I was  
15 curious about this peak --

16 STACEY ROSENBERG: Yes.

17 KRISTEN CUTLER: -- that took place and,  
18 apparently --

19 STACEY ROSENBERG: Well, they reported a  
20 peak on television of 11,930 microsieverts, at the front  
21 gate. Is that what you're talking about?

22 KRISTEN CUTLER: This was at 10:30, which  
23 that would have been 5:30 this morning, Eastern Time.

24 STACEY ROSENBERG: Yes.

25 KRISTEN CUTLER: Yes. I have numbers that

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1 go from 965, 1,941, 8,217 and, then, this 400,000 and,  
2 then, back down to 596.

3 STACEY ROSENBERG: Where is that 400,000 .  
4 measurement from, what location?

5 KRISTEN CUTLER: At the plant, itself. I  
6 don't know any more details than that.

7 STACEY ROSENBERG: Okay.

8 KRISTEN CUTLER: So, this information I  
9 received from the previous person that was overnight  
10 here.

11 STACEY ROSENBERG: I'm going to put you on  
12 hold for a minute.

13 KRISTEN CUTLER: Okay.

14 (Pause)

15 STACEY ROSENBERG: Kristen?

16 KRISTEN CUTLER: Yes.

17 STACEY ROSENBERG: Hi. I'm going to need  
18 to give you -- I don't think you called through the  
19 Headquarters Operations Center.

20 KRISTEN CUTLER: Yes, I did call the Ops  
21 Center.

22 STACEY ROSENBERG: You called the Ops  
23 Center?

24 KRISTEN CUTLER: Because we didn't know who  
25 it was who attended this meeting and, so, I thought,

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1 perhaps, it was from the Protective Measures Team, which  
2 I understand is your team.

3 STACEY ROSENBERG: Yes, it is our team, but  
4 our protocol is to get all our calls through the  
5 Headquarters Operations Center.

6 KRISTEN CUTLER: That's correct and they  
7 transferred me.

8 STACEY ROSENBERG: So they transferred you  
9 here?

10 KRISTEN CUTLER: Yes.

11 STACEY ROSENBERG: Okay.

12 KRISTEN CUTLER: Because I'm working in the  
13 Operations Center at State Department.

14 STACEY ROSENBERG: Okay. What you want to  
15 do is call back the Operations Center and ask for the  
16 Liaison Team.

17 KRISTEN CUTLER: Okay.

18 STACEY ROSENBERG: And they can coordinate  
19 an answer for you.

20 KRISTEN CUTLER: All right. That sounds  
21 great.

22 STACEY ROSENBERG: Okay. Thanks.

23 KRISTEN CUTLER: Thanks.

24 STACEY ROSENBERG: Bye.  
25  
26

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1  
2 (CONFERENCE CALL INITIATED)

3 AUTOMATED MESSAGE: Roger Pedersen.

4 KATHRYN BROCK: Roger, hey. It's Kathryn  
5 Brock calling from the Ops Center. We have a task for  
6 you and we're hoping that you could stop by the Ops Center.  
7 It has to do with writing up a one-pager. Anyway, give  
8 us a call or come on over. Thanks. Bye bye.

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(CONFERENCE CALL INITIATED)

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

KATHRYN BROCK: Joe Decicco, Kathy Brock calling. Hey, I need your help, man. I need somebody who knows something. We're in the Operations Center and we're looking for a one-pager to be delivered to the White House in, like, two hours. So, I'm going to send you an e-mail, too, in case you check that. But please come by the Operations Center PMT area and get further instructions. Thankyou. I appreciateit. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 JOHN LUBINSKI: John Lubinski, may I help  
4 you?

5 LINDA WILLIAMSON: Hi, John. This is Linda  
6 Williamson.

7 JOHN LUBINSKI: Hey, Linda.

8 LINDA WILLIAMSON: I was trying to get the  
9 EST.

10 JOHN LUBINSKI: The EST?

11 LINDA WILLIAMSON: Yes. The admin support  
12 people, Tony Bowers and Michelle Manahan.

13 JOHN LUBINSKI: Okay. That's no there. You  
14 ended up getting to PMT.

15 LINDA WILLIAMSON: Well, all right, then.

16 JOHN LUBINSKI: Okay.

17 LINDA WILLIAMSON: I guess I'll have to call  
18 back or can you transfer me?

19 JOHN LUBINSKI: Michelle Manahan's sitting  
20 at her computer.

21 LINDA WILLIAMSON: Yes. I need to talk to  
22 her.

23 JOHN LUBINSKI: Okay. Hold on a second.  
24 Let me just go grab her.

25 LINDA WILLIAMSON: Either that or if you

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1 can just tell her to either call me or text me.

2 JOHN LUBINSKI: Okay. Are you at home?

3 LINDA WILLIAMSON: She has my number.

4 JOHN LUBINSKI: Are you at home?

5 LINDA WILLIAMSON: Yes. She has my cell  
6 phone number.

7 JOHN LUBINSKI: Oh, she's got your number?

8 LINDA WILLIAMSON: Yes.

9 JOHN LUBINSKI: Linda Williamson.

10 LINDA WILLIAMSON: Yes, I'm just trying to

11 --

12 JOHN LUBINSKI: We're going to shoot her  
13 an e-mail right now. What's her computer number?

14 LINDA WILLIAMSON: OST02.

15 JOHN LUBINSKI: OST02?

16 LINDA WILLIAMSON: Right.

17 JOHN LUBINSKI: Okay. Thanks.

18 LINDA WILLIAMSON: Thanks, John.

19 JOHN LUBINSKI: Bye.

20 LINDA WILLIAMSON: Bye.

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(CONFERENCE CALL INITIATED)

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

TURNER: Operations Center. Turner speaking. May I help you.

KATHRYN BROCK: Yes. Hi. This is Kathy Brock. I'm calling from the Nuclear Regulatory Commission.

TURNER: Yes.

KATHRYN BROCK: I was wondering if I could be patched to the NIT?

TURNER: Okay. Standby, please.

KATHRYN BROCK: Thank you.

(Pause)

TURNER: You're connected, ma'am. Go right ahead.

KATHRYN BROCK: Hi there.

MARK RIDINGHER (phonetic): Hey. Good evening, Kathy. This is Mark Ridingher, in the NIT.

KATHRYN BROCK: How are you doing?

MARK RIDINGHER: Good. How are you?

KATHRYN BROCK: Good. Hey, I've got a question for you. So, there's a no-fly zone being

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1 implemented around the facilities and we heard that it  
2 was 30 kilometers radially out. Do you know the altitude?

3 MARK RIDINGHER: Hold on one second.

4 (Pause)

5 MARK RIDINGHER: Kathy from NRC. She has  
6 the radius. She needs to know the altitude.

7 MALE PARTICIPANT: I've got a POC for FAA.  
8 Do you need the phone number?

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: It's on there somewhere.

11 MARK RIDINGHER: Hey, Kathy. Is there a  
12 number we could give you a call back at? We're trying  
13 to track that down.

14 KATHRYN BROCK: That would be fantastic.  
15 It's 301-816-5419.

16 MARK RIDINGHER: This is Kathy.

17 KATHRYN BROCK: Yes.

18 MARK RIDINGHER: Great.

19 KATHRYN BROCK: Thanks, Mark.

20 MARK RIDINGHER: All right.

21 KATHRYN BROCK: Bye.

22 MARK RIDINGHER: Bye.

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(CONFERENCE CALL INITIATED)

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

STUART BAILEY: Hello. Stu Bailey, can I help you?

KATHRYN BROCK: Yes, please. This is Kathy Brock calling from NRC. May I be passed to the NIT?

STUART BAILEY: Sure. What was your name again, Kathy?

KATHRYN BROCK: Brock.

STUART BAILEY: From NRC?

KATHRYN BROCK: Yes.

STUART BAILEY: Okay. Hang on a second, please.

(Pause)

STUART BAILEY: Go ahead, please.

KATHRYN BROCK: Hi there. It's Kathy Brock calling from NRC, again.

KEITH NELSON (phonetic): Hi. How are you doing? It's Keith Nelson.

KATHRYN BROCK: Hey, there. I have a question. We're trying to get straight what the protective measures that have been taken at the sites

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1 and the only thing that we've had, kind of, in our brains,  
2 is that they evacuated out to 20 kilometers and sheltered  
3 out to 30 kilometers, but that was for Unit 3 we thought.

4 Are you aware of any other protective measures for the  
5 other sites?

6 KEITH NELSON: No. We just had a briefing  
7 and that's all that was briefed during our shift change.

8 KATHRYN BROCK: That's all. Okay.

9 KEITH NELSON: Yes. And, as far as the other  
10 sites, there's just, you know, two sites that are of  
11 concern and they're very close to each other.

12 KATHRYN BROCK: Yes. See, that's what I  
13 thought, too. Okay.

14 KEITH NELSON: Yes.

15 KATHRYN BROCK: So, again, just for  
16 reference, that it's Unit 3, what I said, the 20 kilometers  
17 and 30 kilometers?

18 KEITH NELSON: Yes.

19 KATHRYN BROCK: Okay. Hang on real quick.  
20 I might have a question.

21 JOHN LUBINSKI: Hi. Can you hear us?

22 KEITH NELSON: Yes, this is Keith Nelson.

23 JOHN LUBINSKI: Hey, Keith. John Lubinski.  
24 I'm also in the PMT. What we're trying to clarify is  
25 we saw some graphics on CNN that showed two different

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1 tags. One was for Unit 1 that went 20 kilometers evacuation  
2 and 30 kilometers shelter and, then, for Unit 3 it had  
3 a smaller tag that was encompassed by the larger one  
4 and the question is was that something they're reporting  
5 on TV or is it different? It looked like, if I recall,  
6 it was like a ten kilometer for Unit 3, but that was  
7 encompassed within the 20 kilometer for Unit 1.

8 KEITH NELSON: I can't comment on the tags  
9 for each individual site, but I can tell you that there  
10 are different problems at each site, reference the  
11 explosion and the possible fire.

12 JOHN LUBINSKI: Okay.

13 KEITH NELSON: So, that's why you might have  
14 seen two different tags.

15 JOHN LUBINSKI: Okay. But, at this point,  
16 all you know is that the tag that Kathy discussed with  
17 you, the one tag of 20 from the site -- and I guess that  
18 would be radial from the site boundary?

19 KEITH NELSON: Yes.

20 JOHN LUBINSKI: Okay. So, from the site  
21 boundary and, then, therefore, if it's from the site  
22 boundary, it would encompass all the units on site?

23 KEITH NELSON: Yes.

24 JOHN LUBINSKI: Okay. Thank you very much.  
25 We appreciate it.

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1 KEITH NELSON: All right. No problem. Give  
2 us a shout if you need anything else.

3 JOHN LUBINSKI: Okay.

4 KEITH NELSON: Bye.

5 KATHRYN BROCK: Bye.

6 KEITH NELSON: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 FEMALE PARTICIPANT: PMT.

4 MARK BROWN: Hi. This is Mark Brown with  
5 Headquarters Operations Offices.

6 FEMALE PARTICIPANT: Hi.

7 MARK BROWN: Just wanted to let you guys  
8 know that I just went in to look at the SIPRNet for something  
9 else and we have been receiving some data from DTRA.

10 FEMALE PARTICIPANT: Okay. Scott just  
11 brought it over to us. We have it in our hand.

12 MARK BROWN: That's the latest, but I have  
13 some earlier stuff. I'm not sure if you need it.

14 FEMALE PARTICIPANT: How about we'll call  
15 you back? We'll digest the most recent.

16 MARK BROWN: Okay.

17 FEMALE PARTICIPANT: And, then, I'll let  
18 you know if we need the --

19 MARK BROWN: To go into the previous stuff?

20 FEMALE PARTICIPANT: Yes.

21 MARK BROWN: Okay. Just every once in a  
22 while, you might want to just call over here and say,  
23 have you checked SIPRNet --

24 FEMALE PARTICIPANT: Okay.

25 MARK BROWN: -- recently.

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1 FEMALE PARTICIPANT: How do you spell that?

2 MARK BROWN: I think it's S-I-P-R.

3 FEMALE PARTICIPANT: Okay.

4 MARK BROWN: But that's our secret stuff

5 from the --

6 FEMALE PARTICIPANT: S-I-P-R-N-E-T?

7 MARK BROWN: Correct.

8 FEMALE PARTICIPANT: Okay.

9 MARK BROWN: And that's our secret from the  
10 Department of Defense.

11 FEMALE PARTICIPANT: Okay. Thank you.

12 MARK BROWN: Okay.

13 FEMALE PARTICIPANT: All right. Bye.

14 MARK BROWN: Bye bye.

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Title: Japan's Fukushima Daiichi  
PMT RAAD ASST DIRECTOR Audio Files

Docket Number: N/A

Location: N/A

Date: Wednesday, March 16, 2011

Work Order No.: NRC-4222

Pages 1-61

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JAPAN'S FUKUSHIMA DAIICHI

PMT RAAD ASSISTANT DIRECTOR AUDIO FILES

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WEDNESDAY,

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1 JASON KOZAL: Hi, you've reached Jason  
2 Kozal. Please leave a message and I'll get back to  
3 you as soon as I can. Thank you.

4 KATHY BROCK: Hey, Kathy Brock calling.  
5 I got the email from you guys, but I'm not going to  
6 respond right away just because we're buzzing around  
7 here because we're preparing to issue a press  
8 release with raw RASCAL in it. So I think  
9 eventually you guys will get what you want, but I  
10 think we'll stick with just doing that one release  
11 for you. So anyway, let me know if you have another  
12 question. I'm here. Thanks, bye.

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24 (CONFERENCE CALL INITIATED)

25 KATHY BROCK: Protective measures team.

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1 HEADQUARTERS OPERATIONS OFFICER: This is  
2 Headquarters Operations Officer. I'm transferring a  
3 representative of NARAC to you.

4 KATHY BROCK: Fantastic.

5 HEADQUARTERS OPERATIONS OFFICER: Stand  
6 by.

7 INGA BRENNAN: Hello.

8 KATHY BROCK: Hey, there, it's Kathy  
9 Brock.

10 INGA BRENNAN: Hello?

11 KATHY BROCK: Hello?

12 INGA BRENNAN: Hi, can you hear me?

13 KATHY BROCK: Yes. Can you hear me?

14 INGA BRENNAN: Okay, your line's breaking  
15 up, like, consistently. But my name is Inga Brennan  
16 and I'm calling from the Remote Sensing Laboratory  
17 for the Consequence Management Home Team.

18 KATHY BROCK: Yes.

19 INGA BRENNAN: I'm running a bridge line  
20 with folks from Livermore that are from NARAC, and  
21 they are looking to get in touch with someone at the  
22 NRC who's on call.

23 KATHY BROCK: Okay.

24 INGA BRENNAN: Is there a number I can  
25 pass along to them?

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1 KATHY BROCK: Yes. I'll give different  
2 phone if this one's no good.

3 INGA BRENNAN: Yes, I can barely hear you,  
4 so that would be great.

5 KATHY BROCK: 301-816-5419.

6 INGA BRENNAN: What's your name?

7 KATHY BROCK: Kathy Brock.

8 INGA BRENNAN: Kathy, I will give this  
9 number to them right now.

10 KATHY BROCK: They're calling right now,  
11 you think?

12 INGA BRENNAN: Yes, they're on a bridge  
13 line waiting for this info.

14 KATHY BROCK: Oh, all right. Thanks.

15 INGA BRENNAN: Bye.

16 KATHY BROCK: Bye, bye.  
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HEADQUARTERS OPERATIONS OFFICER: NRC.

It's a recorded line.

KATHY BROCK: Hey, it's Kathy Brock from the PMT. Do you have the phone number for our folks, Jason Kozal, down at USAID, or can you transfer me there?

HEADQUARTERS OPERATIONS OFFICER: USAID?

I'm not sure. Hang on a second.

(Off the record discussion)

KATHY BROCK: Okay.

HEADQUARTERS OPERATIONS OFFICER: Ma'am?

KATHY BROCK: Yes.

HEADQUARTERS OPERATIONS OFFICER: What's your name?

KATHY BROCK: Kathy Brock.

HEADQUARTERS OPERATIONS OFFICER: Kathy --

KATHY BROCK: B-R-O-C-K.

HEADQUARTERS OPERATIONS OFFICER: What's your callback number?

KATHY BROCK: 301-816-5419.

HEADQUARTERS OPERATIONS OFFICER: 5419.

We'll get ahold of Jason Kozal and have him let you know what time he can he can call you back.

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KATHY BROCK: Okay. Thank you.

HEADQUARTERS OPERATIONS OFFICER: Thank  
you.

KATHY BROCK: Bye.

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2 (CONFERENCE CALL INITIATED)

3 JASON KOZAL: Hi, you've reached Jason  
4 Kozal. Please leave a message and I'll get back to  
5 you as soon as I can. Thank you.

6 KATHY BROCK: Hey Jason, I'm trying to get  
7 ahold of you. This is Kathy Brock calling. My  
8 question is who's the audience for this paper you're  
9 putting together? I need to know that before I can  
10 take my work in for the ET to review.

11 Okay, thanks. Bye. Oh, call me at 301-  
12 816-5419. Bye.

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(CONFERENCE CALL INITIATED)

KATHY BROCK: PMT.

INGA BRENNAN (phonetic): Hi, my name is Inga Brennan. I'm calling from the CM Home team at the Remote Sensing Laboratory.

KATHY BROCK: Yes.

INGA BRENNAN: I'm calling because there is an A team conference call that is being conducted at this time, and they wanted representation from NRC to participate.

KATHY BROCK: Right. I think we talked to each other about a half hour ago.

INGA BRENNAN: You know, and that was a different conference call. Can I give --

KATHY BROCK: And that never happened.

INGA BRENNAN: Yes. Can I give you this other number for the call that's going on right now?

KATHY BROCK: All right. Hang on. I've got to get to a page.

INGA BRENNAN: Sorry. You bet.

KATHY BROCK: All right. Go ahead.

INGA BRENNAN: It's 866-561-4509.

KATHY BROCK: 509. Okay.

INGA BRENNAN: And the PIN is

(b)(6)

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1 KATHY BROCK: And what was the call about?

2 INGA BRENNAN: This is the A team  
3 conference call that's scheduled, and they asked  
4 that we just reach out to someone from NRC to see if  
5 they could be available for the call.

6 KATHY BROCK: What's the A team?

7 INGA BRENNAN: Advisory team.

8 KATHY BROCK: The advisory team for what  
9 agency?

10 INGA BRENNAN: It's conglomeration of  
11 agencies that come together that they're trying to  
12 do advisory for messages to go out to the public.

13 KATHY BROCK: All right.

14 INGA BRENNAN: Okay. Thanks so much.

15 KATHY BROCK: Thanks. Bye.  
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(CONFERENCE CALL INITIATED)

CINDY JONES: This is the Ops Center. It's a recorded line.

JASON KOZAL: Cindy, it's Jason.

CINDY JONES: Jason. We've been trying to reach you.

JASON KOZAL: I know. I was down getting FEMA rep guys and bringing them up here. Sorry.

CINDY JONES: Okay. Hold on one second. Kathryn's here. Kathryn, it's Jason.

KATHY BROCK: Hey, man.

JASON KOZAL: Hey, what's up?

KATHY BROCK: So what I was trying to -- we were bombarded by a gazillion --

JASON KOZAL: Yes.

KATHY BROCK: -- questions right at the same time.

JASON KOZAL: Sure.

KATHY BROCK: But what I was trying to

(b)(5)

JASON KOZAL: (b)(5)

(b)(6)

KATHY BROCK: To where?

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1 JASON KOZAL: (b)(6)

2 KATHY BROCK: Okay.

3 JASON KOZAL: Yes, Cindy knows who he is.

4 KATHY BROCK: All right. I just printed  
5 it out. We've had most of it done for quite a long  
6 time, and I'm sorry, but I had to run it by the ET.

7 JASON KOZAL: Okay. We're waiting for it,  
8 so just to let you know.

9 KATHY BROCK: Yes.

10 JASON KOZAL: All right.

11 KATHY BROCK: All right. Your phone does  
12 not seem to be working.

13 JASON KOZAL: No, no, I was down in the  
14 main building getting guys from FEMA rep out. I was  
15 surrounded by granite. Sorry about that. I was  
16 trying to get these guys up here to help with some  
17 of the evacuation stuff.

18 KATHY BROCK: All right.

19 JASON KOZAL: Thanks. Bye.

20 KATHY BROCK: Bye.  
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(CONFERENCE CALL INITIATED)

NIMA ASHKEBOUSSI: Protective Measures Team. Nima speaking.

HEADQUARTERS OPERATIONS OFFICER: I'm transferring a call from the U.S. Postal Service for Dr. Cynthia Jones.

NIMA ASHKEBOUSSI: Okay. She's left, but we'll get someone else, thanks.

HEADQUARTERS OPERATIONS OFFICER: All right. Stay on the line. I'll connect.

PATRICK MONDAUGH (phonetic): Hello.

NIMA ASHKEBOUSSI: Hello?

PATRICK MONDAUGH: Hello.

NIMA ASHKEBOUSSI Hi. This is the NRC Protective Measures Team.

PATRICK MONDAUGH: Yes. I was trying to get ahold of Dr. Jones.

NIMA ASHKEBOUSSI: She's off duty, but we have a replacement here. Hold on. Let me put you on speaker phone?

PATRICK MONDAUGH: Yes. A-okay. Okay, are we on? I need to connect some other people. I'm calling from the Postal Service, so let me do that right now, okay? Do I have you on the line still?

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1 NIMA ASHKEBOUSSI: Yes, we're here.

2 PATRICK MONDAUGH: Good. Okay, hold on a  
3 second. Frank (phonetic), do I have you on the line  
4 still?

5 FRANK: Yes, sir.

6 PATRICK MONDAUGH: Sean, do I have you on  
7 the line still?

8 SEAN LACEY: Yes.

9 PATRICK MONDAUGH: Sean?

10 SEAN LACEY: Yes, I'm here.

11 PATRICK MONDAUGH: Okay. Randy  
12 (phonetic), do I have you on the line still?

13 RANDY: Yes.

14 PATRICK MONDAUGH: Okay. Hi. I'm sorry.

15 Back to the NRC. This is, yes, my name's Patrick  
16 Mondaugh. I work in the office of the Postmaster  
17 General. (b)(5)

18 (b)(5) We've had  
19 an incident in two locations in the Postal Service,  
20 and we need to -- let me have the people fill you in  
21 on that.

22 Randy, you might really want to start with  
23 what happened, and then turn it over to Sean and  
24 Frank as far as the concerns. And, hold on. I'm  
25 sorry, who do I have on the line? I'm sorry. I

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1 said, hello, and then I didn't even take your name  
2 down.

3 VINCE HOLAHAN: Hi. This is Vince  
4 Holahan. I'm with the Protective Measures Team.

5 PATRICK MONDAUGH: Okay, great. Thanks,  
6 Vince. Yes, go ahead, Randy.

7 RANDY: Yes. We had a -- the portal  
8 radiation monitors at the respective gateways of the  
9 International Mail Service centers have alerted on  
10 multiple occasions, apparently, to inbound mail  
11 items coming with an origination of Japan.

12 And they've been -- the SOP is for CBP to  
13 respond to identify the isotope and take a reading.

14 And they've subsequently done that and determined  
15 it was cesium-137. And the statement back to the  
16 Postal Service has been that these items that the  
17 mail transportation equipment is most likely  
18 contaminated.

19 And they've made recommendation that the  
20 Postal employees wear gloves and possibly a mask for  
21 handling. And as result, CBP has then released the  
22 items to the Postal Service. However, there's some  
23 concerns in regard to the potential contamination of  
24 the items, you know, and specifically the radiation  
25 levels.

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1 Frank, did you have anything to add to  
2 that?

3 FRANK: I'm sorry. Did you mean us  
4 (phonetic), Randy?

5 RANDY: Yes, Frank, can you pick up?

6 FRANK: I'm so sorry. What was the name  
7 of the gentleman at NRC?

8 VINCE HOLAHAN: Vince Holahan.

9 FRANK: Hi, Vince. Yes, well I'm the CIH  
10 and the Program Manager of Safety at the Postal  
11 Service Headquarters, and we have a concern that the  
12 rad portal technology, and the survey instruments  
13 and the level of training for our folks that do  
14 screening up there is not sufficient to characterize  
15 the extent of the mail contamination.

16 And we also feel as an agency that we're,  
17 you know, we shouldn't be the ones to make an  
18 official risk assessment about whether this mail can  
19 move out through our system and to customers. So  
20 we've isolated the mail at this point.

21 You may not be -- oh, you're probably  
22 aware of it, but the portal standards that Customs  
23 uses and our Inspection Service use to move mail  
24 (indiscernible, possibly "through") that does  
25 (phonetic) alarm while based on sealed sources, not

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1 on external mail contamination.

2 So we have a concern that, you know, based  
3 on ALARA and other safety standards, is that mail  
4 moving out because of general public and customers  
5 and employees may be, you know, giving unnecessary  
6 radiation exposures, especially when you start  
7 thinking about, you know, children, et cetera. So  
8 we -- well, I'll just leave it at that and let Pat  
9 take it from there.

10 PATRICK MONDAUGH: Well, yes, I'll turn it  
11 back over to Vince. I think we're looking for  
12 assistance from the NRC as far as, as Frank said,  
13 characterization of what we're dealing with,  
14 recommendations on what we should do with the mail  
15 itself.

16 We probably want to move on this as  
17 quickly as we possibly can, because we've already  
18 had people, you know, that have been exposed to this  
19 within the facilities. We have at least four  
20 locations of mail from Japan comes into the United  
21 States at the JFK facility, at the O'Hare facility,  
22 in Los Angeles, in San Francisco and Honolulu. Now  
23 at this point we've had the alarms at JFK and San  
24 Francisco as well, Randy?

25 RANDY: Yes, yes, it has confirmed JFK,

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1 San Francisco alarms at this point.

2 TRISH HOLAHAN: All right. We can look  
3 into it, but I think you should also -- this is  
4 Trish Holahan -- notify Rick Boyle at the Department  
5 of Transportation and we're getting his number for  
6 you.

7 (Off microphone discussion)

8 RANDY: Is Vince still there?

9 VINCE HOLAHAN: Yes, it's me, Randy.

10 NIMA ASHKEBOUSSI: Yes, we're here. We're  
11 looking for a phone number.

12 FRANK: Okay, Vince, while you're doing  
13 that, would you typically, if, you know -- we have a  
14 non-license incident obviously. Would you send out  
15 one of your incident site teams, or would you send  
16 out or refer it to a state or how would that work?

17 TRISH HOLAHAN: Sorry. Could you repeat  
18 that question?

19 FRANK: Yes. I'll tell you what, I mean  
20 we're obviously interested in getting some kind of  
21 site characterizations and assessments so we can  
22 decide what to do with this mail that's coming in.  
23 And would you typically send out one of your  
24 incident site teams, or would you refer it to a  
25 state agency if they're in a plan state?

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1 TRISH HOLAHAN: Probably I would refer it  
2 to the state agency, because they have people on  
3 site, and they can get to those airports quicker  
4 than we can.

5 SEAN LACEY: And another question, this is  
6 Sean Lacey, the Director of Safety. Our assumption  
7 is we're looking at this would be that FedEx, and  
8 UPS and other carriers should be experiencing  
9 similar things. Are you aware of any of that?

10 TRISH HOLAHAN: No. This is the first  
11 we've heard of it.

12 (Off microphone discussion)

13 VINCE HOLAHAN: We have had FedEx explain  
14 to us about flight restrictions and, again, that's  
15 probably more of an FAA type of question at this  
16 point. We do have some folks that have been trying  
17 to do some modeling on plume where it is in the  
18 altitudes, and obviously that changes on a periodic  
19 basis.

20 One of the things that I would suggest is,  
21 we're going to give you a phone number for the  
22 emergency response and incident response group at  
23 the Department of Transportation. Because really,  
24 the questions that you're bringing up are a DOT  
25 issue. That number would be area code 866-377-8642.

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1 And generally, the gentleman that is the expert on  
2 radiological matters at the Department of  
3 Transportation is a Rick Boyle, B-O-Y-L-E.

4 MALE PARTICIPANT: Okay, well, you may  
5 not be aware that the Postal Service isn't subject  
6 to VAP hazardous materials regs, so they may or may  
7 not respond. But I think what we're looking for are  
8 some site-specific response teams to come out, take  
9 a look, be sure they work on the mail we already  
10 have that's alarmed as being positive for cesium-  
11 137, and then give us some risk assessment advice.

12 VINCE HOLAHAN: I understand that, and  
13 each of the states that you are talking about are  
14 agreement states, and they have the authority to do  
15 all of the inspection and regulation of those  
16 particular facilities there.

17 MALE PARTICIPANT: Well, do we need to go  
18 through you to --

19 VINCE HOLAHAN: No, you would go through  
20 them directly.

21 MALE PARTICIPANT: Do we have a list?

22 (Off microphone discussion)

23 VINCE HOLAHAN: We're looking up the web  
24 address where you can find the names and phone  
25 numbers for each of those state representatives.

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1 California, Illinois, Hawaii.

2 (Off microphone discussion)

3 MALE PARTICIPANT: So Hawaii is not an  
4 agreement state? Do you cover that?

5 VINCE HOLAHAN: That would be Region IV.  
6 We'll give you information on that in just a second.

7 (Off microphone discussion)

8 MALE PARTICIPANT: Is there somebody who  
9 can copy this down for me? I'm holding a cell  
10 phone, here, and I can't --

11 VINCE HOLAHAN: Okay. For the State of  
12 California the point of contact would be a Gary  
13 Butner, B-U-T-N-E-R. That's the Radiological Health  
14 branch located in Sacramento. Phone number would be  
15 area code 916-440-7942. For Illinois, that would be  
16 Jonathon Monken, M-O-N-K-E-N, area code 217-785-  
17 9868, and they're located in Springfield.

18 (Off microphone discussion)

19 VINCE HOLAHAN: For New York City, it  
20 would be Gene Miskin, M-I-S-K-I-N. Again, Bureau of  
21 Radiological Health. That number is area code 212-  
22 676-1556. Do we have Region IV contact?

23 (Off microphone discussion)

24 MALE PARTICIPANT: I believe our  
25 International Service Center is actually located in

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1 Jersey.

2 VINCE HOLAHAN: Oh, it's in New Jersey?  
3 Well, okay, we'll hit New Jersey. New Jersey would  
4 be Paul Baldauf, B-A-L-D-A-U-F. In Trenton his  
5 number would be area code 609-984-5636.

6 (Off microphone discussion)

7 FEMALE PARTICIPANT: We have a non-  
8 agreement state contact in Hawaii, a non-agreement  
9 state director.

10 VINCE HOLAHAN: Yes, we have a non-  
11 agreement state director in Hawaii, and that would  
12 be Jeffrey Eckerd. He's located in Honolulu. That  
13 number would be 808-586-4700.

14 MALE PARTICIPANT: How do you spell the  
15 last name?

16 VINCE HOLAHAN: I say again, it's Jeffrey  
17 Eckerd, E-C-K-E-R-D. And he's in the radiation  
18 section of the Hawaii Department of Health.

19 (Off microphone discussion)

20 PATRICK MONDAUGH: Frank and Sean, do we  
21 need something else to make these calls?

22 FRANK: Well, I would just add that if we,  
23 let's say we get these four or five different states  
24 to come out and do some characterization. Do we  
25 want four or five risk different risk assessments,

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1 or would the NRC give us some national advice,  
2 agency to agency, on what we should do with mail  
3 that has this and that level of contamination?

4 (Off microphone discussion)

5 MALE PARTICIPANT: Yes, the issue we have  
6 is we don't think we have a standard on this.

7 VINCE HOLAHAN: It isn't really mail,  
8 Frank. It's the containers themselves. So it would  
9 be the same regardless of whether it was on luggage,  
10 or whether it was on any type of thing that came off  
11 an aircraft. So it's not the mail itself. It was  
12 the container that it was in. (Indiscernible) for a  
13 container coming off an aircraft that's contaminated  
14 as far as --

15 MALE PARTICIPANT: Well, the inspectors  
16 are going to figure out what happened. But, I mean,  
17 so far what was detailed is that, you know, we  
18 opened the containers and the individual mail pieces  
19 went up the conveyor belt, and then they themselves  
20 set of the detection.

21 MALE PARTICIPANT: (Indiscernible) the  
22 pieces?

23 MALE PARTICIPANT: That's what we're still  
24 trying to confirm.

25 MALE PARTICIPANT: The only way we can

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1 characterize this is to have the survey teams on  
2 site to take a look.

3 MALE PARTICIPANT: Well, Pat, you have  
4 Vince's number, I mean, I guess -- in theory, it  
5 would appear to me that if Fedex or UPS had similar  
6 questions like this, they would probably be calling  
7 these guys. So you know, I think once we -- we  
8 probably should start first in New -York and  
9 California. We might find that they're already  
10 aware of this issue and, you know, we could get  
11 moving.

12 MALE PARTICIPANT: Hey, Vince, do you guys  
13 track these calls? Or do you have a -- if we need  
14 to get, I assume we probably would get back in touch  
15 with you at some point?

16 VINCE HOLAHAN: Well, this number is  
17 manned 24/7, so we'll have some folks here.

18 MALE PARTICIPANT: If we call back and we  
19 refer to this, do you have, like, do you open up a  
20 case on this or do you have a reference number so  
21 that when we call back we don't, you know, re-  
22 explain the issue and everything?

23 VINCE HOLAHAN: Well, we basically keep  
24 email files, and that's all we're doing right now.

25 MALE PARTICIPANT: We don't have your

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1 email.

2 VINCE HOLAHAN: Ah.

3 NIMA ASHKEBOUSSI: Our email here is, pmt,  
4 Paul Mary Thomas 12 --

5 MALE PARTICIPANT: Yes.

6 NIMA ASHKEBOUSSI: -- number 12, dot, H-O-  
7 C at nrc.gov.

8 MALE PARTICIPANT: Okay. I'll send you  
9 guys an email, this (indiscernible) at pmt, Paul  
10 Mary Thomas 12, HOC at nrc.gov. I'll send you an  
11 email characterizing what I understand that what  
12 we're going to do with this and this information.  
13 Then you -- if I've misstated it, you can state  
14 that. And then at least we have a record.

15 Randy, do you have anything else? Randy?  
16 Guess we lost Randy. Frank, Sean? Anything else?

17 FRANK: Well, I think that what we're  
18 still left, and obviously the response folks at NRC  
19 can't answer this, is that once we do some  
20 characterization and we figure out things, that  
21 we're going to need some advice on a national level  
22 about what we do with mail that has various levels  
23 and trace amounts of radionuclides on it. But  
24 that's, I guess, remains to be decided after we get  
25 some characterization of what we're dealing with. I

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1 (b)(5)  
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3 TRISH HOLAHAN: DHS or Department of  
4 Transportation.

5 MALE PARTICIPANT: Well, yes, DOT's still  
6 in it, but again that's a caution. You know, they  
7 don't regulate the postal service in terms of  
8 HAZMAT.

9 MALE PARTICIPANT: But they probably might  
10 have some standards that we're not familiar with for  
11 transportation of material.

12 FRANK: (Indiscernible) they do, but it's  
13 for sealed sources and not for external  
14 contamination of parcels. That's the issue. We  
15 have external contamination, potentially, of mail  
16 pieces and that sort of thing. And what is the risk  
17 to the general public and the consumers that we're  
18 willing to accept?

19 MALE PARTICIPANT: Okay.

20 FRANK: We can't necessarily make those  
21 decisions that have to be made by public health  
22 authorities.

23 TRISH HOLAHAN: I'll look into who you  
24 would go to, and when you send the email we'll get  
25 back to you with that.

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1 FRANK: Very good. Thank you.

2 VINCE HOLAHAN: Okay. Thanks.

3 MALE PARTICIPANT: We're going to have  
4 more discussions this evening, I assume?

5 VINCE HOLAHAN: If you want us to stay on  
6 the line, I mean, I guess the next issue for us is -

7 -

8 MALE PARTICIPANT: I'll call you back.

9 VINCE HOLAHAN: Okay.

10 MALE PARTICIPANT: Okay.

11 VINCE HOLAHAN: All right.

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(CONFERENCE CALL INITIATED)

NIMA ASHKEBOUSSI: Protective Measures Team. Nima speaking.

MATT KAZUR (phonetic): Yes, sir. This is Matt Kazur over in the DOE Nuclear Incident team.

NIMA ASHKEBOUSSI: Hi, Matt. How are you?

MATT KAZUR: I'm doing all right. How about you?

NIMA ASHKEBOUSSI: Busy.

MATT KAZUR: I understand. I have a quick question for you regarding the source terms you've been generating.

NIMA ASHKEBOUSSI: Okay.

MATT KAZUR: Initially --

NIMA ASHKEBOUSSI: Can you hold on a second?

MATT KAZUR: Absolutely.

(Off microphone discussion)

NIMA ASHKEBOUSSI: Hi, Matt?

MATT KAZUR: Yes.

NIMA ASHKEBOUSSI: Yes, I have you on speaker phone.

MATT KAZUR: Okay, great. So my question was, I think originally that the source term was

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1 developed based on a Oyster Creek design. Is that  
2 correct?

3 MALE PARTICIPANT: No. We shifted away  
4 from that during the day on Saturday.

5 MATT KAZUR: Okay, great. And that was  
6 the question I just got asked, and I thought that it  
7 probably happened at some point, but I didn't know  
8 when.

9 MALE PARTICIPANT: (b)(5)  
10 (b)(5)  
11 (b)(5)

12 MATT KAZUR: Yes.

13 MALE PARTICIPANT: (b)(5)  
14 (b)(5)  
15 (b)(5)  
16 (b)(5)

17 MATT KAZUR: Okay.

18 MALE PARTICIPANT: (b)(5)  
19 (b)(5)  
20 (b)(5)  
21 (b)(5)

22 MATT KAZUR: Yes, right.

23 MALE PARTICIPANT: What's between what  
24 Oyster Creek had and what the other units had is  
25 irrelevant.

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1 MATT KAZUR: Okay. Got you. So the  
2 source term has been tailored now. It's not Oyster  
3 Creek.

4 MALE PARTICIPANT: Dilasized --

5 MATT KAZUR: Dilasized.

6 MALE PARTICIPANT: The way it was tailored  
7 was to get the actual release height, the actual  
8 core power level, which the inventory has  
9 calculated, things of that nature. Oyster Creek  
10 actually is a higher power level than Unit 1.

11 MATT KAZUR: I see. Right.

12 MALE PARTICIPANT: So we knew we were  
13 conservative. That's the basis. They also managed  
14 to get the containment leak rates by design features  
15 of the unit, so I think we're way beyond the design  
16 leakage.

17 MATT KAZUR: Right. Okay. And that  
18 change was made you said on Saturday.

19 MALE PARTICIPANT: Yes. Saturday we  
20 stopped reporting Oyster Creek.

21 MATT KAZUR: Okay.

22 MALE PARTICIPANT: And we had models for  
23 both of the two -- for Unit 2, and Unit 1 and Unit  
24 3, I believe. So when Unit 2 came along, I think we  
25 were just been kind of averaging it out.

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1 MATT KAZUR: Okay.

2 MALE PARTICIPANT: Yes, we're not getting  
3 a hell of a lot of data which really to do a really  
4 good assessment.

5 MATT KAZUR: Right. Yes. Understood.

6 MALE PARTICIPANT: And you know, the  
7 (b)(5) -- one of the things  
8 almost all our licensees do is when they have an  
9 event where they really don't have an idea what's  
10 going out, they immediately send field monitoring  
11 teams downwind of the plant.

12 MATT KAZUR: Right.

13 MALE PARTICIPANT: Not upwind.

14 MATT KAZUR: Right.

15 MALE PARTICIPANT: So yes, we get that  
16 calculated we could get a reading, say, on that  
17 damned sea wall.

18 MATT KAZUR: Yes. Right.

19 MALE PARTICIPANT: We could have tried  
20 something with the data. We get some data from the  
21 Ronald Reagan 132 miles out, 0.6 millirems --

22 MATT KAZUR: Yes, right.

23 MALE PARTICIPANT: Our model won't go over  
24 50 miles.

25 MATT KAZUR: Oh, I see, okay. Okay.

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1 MALE PARTICIPANT: We did give that number  
2 to NARAC.

3 MATT KAZUR: Yes, and actually, yes I know  
4 that they've had that. Right. Okay. Beautiful.  
5 Yes, I just, I think NARAC and -- do you know what's  
6 the, I should know this, I'm sorry, the means by

7 (b)(5)

8 MALE PARTICIPANT:

(b)(5)

9 (b)(5)

10 MATT KAZUR:

(b)(5)

11 -

12 (Pause)

13 MALE PARTICIPANT: Excuse me. Matt?

14 MATT KAZUR: Yes.

15 MALE PARTICIPANT: I'm sorry it took so  
16 long.

17 MATT KAZUR: Yes, no problem.

18 MALE PARTICIPANT: Okay, it looks like

19 (b)(5)

20 MATT KAZUR: Yes.

21 MALE PARTICIPANT: That's the one we're

22 going to. (b)(5)

23 (b)(5)

24 MATT KAZUR: Okay, beautiful. So that's  
25 the way they've been getting products back to you?

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1 MALE PARTICIPANT: Yes.

2 MATT KAZUR: Okay, great. Well, I think  
3 they have finished the run that was requested by you  
4 all earlier today.

5 MALE PARTICIPANT: Okay.

6 MATT KAZUR: Have you seen those results?

7 MALE PARTICIPANT: Let me look.

8 MATT KAZUR: Yes, log in and see if you've  
9 got them. If not, I'll contact NARAC and make sure  
10 they've been shared to you. It looks like only a  
11 couple of minutes ago.

12 (Off microphone discussion)

13 MALE PARTICIPANT: We don't have anything  
14 newer than yesterday.

15 MATT KAZUR: Okay. Yes, let me call John  
16 (phonetic) at NARAC and see if he can share that  
17 with you. But that's where it will show up. Were  
18 you all going to be able to attend this, I think  
19 there may a conference call at 1800.

20 MALE PARTICIPANT: I was not aware of it.

21 MATT KAZUR: Yes, well, let me -- I'll  
22 give you a call back if that's the case. They had  
23 been having them every four hours. It's just NARAC,  
24 our CM Home Team, and sometimes it's useful to have  
25 you guys on the line as well.

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1 MALE PARTICIPANT: Happy to participate.

2 MATT KAZUR: Okay, great. Do you have  
3 that number, the bridge line number?

4 MALE PARTICIPANT: No, I'll give you a  
5 direct call-in onto an answering machine. This  
6 isn't a secure connection, is it?

7 MATT KAZUR: No.

8 MALE PARTICIPANT: Okay. 301-816-5419.

9 MATT KAZUR: 816-5419?

10 MALE PARTICIPANT: That rings out at our  
11 Coordinator desk.

12 MATT KAZUR: Okay, beautiful. I'll give  
13 you a call back in just a moment.

14 MALE PARTICIPANT: Okay. Thank you.

15 MATT KAZUR: Thank you. Bye.

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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: NRC. Vince Holahan speaking.

ERIC STAHL: Yes, hi. This is Eric on the International desk. We have a question from the Canadians about where we're getting our, the radiation environmental levels that have resulted in enough to make the 50-mile determination about evacuation. What's the -- do we have a public, you know, statement about where we're getting our radiation reports from?

VINCE HOLAHAN: I'll tell you what. Let me hand you over to Steve so he can put all the qualifications into that.

ERIC STAHL: Okay.

(Off microphone discussion)

STEVE LAVIE: This is Steve Lavie.

ERIC STAHL: Hi, Steve. This is Eric Stahl at the International Liaison desk.

STEVE LAVIE: Yes.

ERIC STAHL: We have a call from the Canadian regulator right now. They're just asking us what basis we're using for determining the 50-mile evacuation zone. And so we told them it's due

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1 to, you know, radiation environmental levels that  
2 have been observed. They asked where we are we  
3 getting our information from?

4 STEVE LAVIE: Okay. I think I can handle  
5 that.

6 ERIC STAHL: Okay. Oh, did you want me to  
7 connect them to you?

8 STEVE LAVIE: Yes, you can connect them.

9 ERIC STAHL: What's the number to connect  
10 them to?

11 STEVE LAVIE: 301.

12 ERIC STAHL: Yes.

13 STEVE LAVIE: 816-5419.

14 ERIC STAHL: Okay, thanks. I'll connect  
15 you.

16 STEVE LAVIE: Okay. (Indiscernible) with  
17 this line.

18 ERIC STAHL: All right. I'll connect in a  
19 minute.

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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: NRC PMT. Vince Holahan speaking.

HEADQUARTERS OPERATIONS OFFICER:  
Transferring a call for Steve Lavie.

VINCE HOLAHAN: Wait one.

(Off microphone discussion)

MAJOR DANIEL SHAW (phonetic): NRC?

HEADQUARTERS OPERATIONS OFFICER: All right, stay on the line. I'll transfer the call.

STEVE LAVIE: Hello?

MAJOR DANIEL SHAW: Hello, sir. How you doing?

STEVE LAVIE: Oh, I'm sorry. This is Steve Lavie from the NRC's Protective Measures team. And who am I talking to please?

MAJOR DANIEL SHAW: My name is Major Daniel Shaw. I work with the Air Force Radioisotope Committee. We are a MML (phonetic) holder for the Air Force.

STEVE LAVIE: Okay.

MAJOR DANIEL SHAW: And we were provided your number. Essentially, sir, we're looking to try to get a good representative, or develop a rapport

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1 with the NRC with the events going on in Japan. And  
2 we're looking for true and current information about  
3 the reactor that, you know, we seem to be getting  
4 just off of Fox News, et cetera, et cetera.

5 So we're looking for an in on what is  
6 truly going on with the reactors, and I guess the  
7 storage pool on the Reactor 4 area. And we're  
8 wondering if you could disclose that either by a  
9 secure email or however you can do it, sir.

10 STEVE LAVIE: I would not be -- we're  
11 allowed to share information with our federal  
12 family, however, as official use only. However,  
13 your statement about true and accurate status of the  
14 cores and so forth --

15 MAJOR DANIEL SHAW: Yes, sir.

16 STEVE LAVIE: -- Our data is not all that  
17 much better. The situation is highly uncertain over  
18 there.

19 MAJOR DANIEL SHAW: Okay, sir. We, you  
20 know, it seems like what we're getting is almost six  
21 to eight hours delayed, and we're trying to speed  
22 up, you know --

23 STEVE LAVIE: Yes, I can understand that.

24 MAJOR DANIEL SHAW: -- a more realistic  
25 view of what's going on. I mean, the latest we just

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1 heard on Fox is the Storage Area Number 4 there is  
2 out of water, essentially. And we're trying to  
3 figure out if there's any fire at that location now.

4 (b)(5)  
5  
6

7 And you know, essentially, our higher-ups  
8 need to know what's going on. You know, we are  
9 trying to take the appropriate protective measures  
10 or countermeasures, and just want to ensure that we  
11 have the latest and greatest information so we base  
12 our decisions on.

13 STEVE LAVIE: Yes, I'm trying to think of  
14 how I can advise you. Because like I say, the  
15 information we're getting has not been the greatest.

16 We have some people in the U.S. Embassy that are  
17 trying to get information and feed it to us.

18 I do know that other military  
19 organizations are also wrestling with these issues.

20 I know the Navy has got a couple of, not a  
21 submarine base, there's a shipyard at Yokosuka,  
22 which is about 165 miles from this. And the Ronald  
23 Reagan is operating off the coast, the aircraft  
24 carrier for rescue support.

25 MAJOR DANIEL SHAW: Okay, sir.

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1 STEVE LAVIE: You may want to try to get  
2 ahold of Naval Reactors.

3 MAJOR DANIEL SHAW: Okay, we've had  
4 numerous telecons.

5 STEVE LAVIE: And their data is stale too.

6 MAJOR DANIEL SHAW: Yes, sir.

7 STEVE LAVIE: I'm afraid that's going to  
8 be the case. The other possibility I can suggest to  
9 you, and I'm looking for a phone number, is the  
10 organization called DTRA, Defense --

11 MAJOR DANIEL SHAW: Yes, sir, we have  
12 several representatives over at with DTRA. They're  
13 providing us the latest and greatest plume modeling,  
14 and what they've forecasted, But by the time we get  
15 the DTRA report, and no fault to them, you know,  
16 there's still four to five hours delay in what's  
17 been going on.

18 STEVE LAVIE: Okay. Let me see if I can  
19 find anything I can give you that quickly. The data  
20 has been really speculative.

21 MAJOR DANIEL SHAW: Do you have, or has  
22 anybody provided -- are the Japanese sharing any of  
23 their data?

24 STEVE LAVIE: No.

25 MAJOR DANIEL SHAW: Nothing. Nothing at

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1 all?

2 STEVE LAVIE:

(b)(5)

3 (b)(5)

4 (b)(5)

5 One of the problems

6 we're having is that the Japanese monitoring  
7 stations around this unit are all upwind of the  
8 plume.

9 MAJOR DANIEL SHAW: Okay.

10 STEVE LAVIE: So all that data they're  
11 reporting in the environment is all upwind --

12 MAJOR DANIEL SHAW: Yes.

13 STEVE LAVIE: -- where the plume is  
14 currently going offshore. You know, typically, we  
15 could try to do an assessment back calculating, but  
16 we have no data for out there. I will point out  
17 that the Ronald Reagan reported through Naval  
18 Reactors a dose rate on the flight deck of the  
19 Ronald Reagan when they were 132 nautical miles out  
20 to sea of 0.6 millrem per hour.

21 MAJOR DANIEL SHAW: Okay.

22 STEVE LAVIE: If you're all familiar with  
23 dose assessment and stuff --

24 MAJOR DANIEL SHAW: Right.

25 STEVE LAVIE: -- you've got to recognize

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1 that that 0.6 132 miles out doesn't say an awful lot  
2 good for close in.

3 MAJOR DANIEL SHAW: No, exactly. But 600  
4 microroentgen per hour, it's detectible above that.

5 STEVE LAVIE: Right. Yes, the other thing  
6 is they got some smears off some Orion P-3s and a  
7 Seahawk, and they had them analyzed for isotopic  
8 composition. And all the statistics on the isotopic  
9 concentrations were not the greatest.

10 MAJOR DANIEL SHAW: Okay.

11 STEVE LAVIE: They were identifiable  
12 nuclides, and it was iodine 131, cesium 134, cesium  
13 137, all reactor nuclides.

14 MAJOR DANIEL SHAW: Yes, we have data. We  
15 have, that they're analyzing by gamma seq. And we  
16 know the isotopes and concentrations, but we're  
17 looking for, well, kind of a go-to guy for the up-to  
18 -date.

19 STEVE LAVIE: I wish I had something  
20 better -- you're primarily looking for plant  
21 condition?

22 MAJOR DANIEL SHAW: Yes. What's actually  
23 happening with the three reactors --

24 STEVE LAVIE: Okay. As opposed to doses?

25 MAJOR DANIEL SHAW: Correct. Yes, the

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1 doses are, I don't want to say irrelevant at this  
2 point, but you know, we want to know what the chance  
3 is that it's going to be released based on what the  
4 reactor is doing. Are they keeping them cooled or  
5 not? Is there water against that? You know, like I  
6 said, we just found out that spent fuel pool on, I  
7 guess, Reactor 4 area's out of water. That's --

8 STEVE LAVIE: Yes. It's been out of water  
9 for most the day. It's probably even starting last  
10 night.

11 MAJOR DANIEL SHAW: Working pretty hard,  
12 today, so I just go on the news. So --

13 STEVE LAVIE: You know, I agree with you  
14 that CNN and all those other places are pretty  
15 useless. However, what I would suggest to you is,  
16 because we are seeing press releases from their  
17 cabinet secretary from Japan --

18 MAJOR DANIEL SHAW: Okay.

19 STEVE LAVIE: -- on what's known as NHK  
20 WORLD.

21 MAJOR DANIEL SHAW: Okay.

22 STEVE LAVIE: We're getting a feed --  
23 where are you calling from, by the way?

24 MAJOR DANIEL SHAW: (b)(5)

25 STEVE LAVIE: (b)(5) There's a TV

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1 station in Fairfax that's re-broadcasting this feed.

2 MAJOR DANIEL SHAW: Okay.

3 STEVE LAVIE: I have it on my Comcast  
4 Cable. Maybe you guys have got it there as well.  
5 They also have a website, www.nhk.or.jp/nhkworld.  
6 They're currently showing some computer graphs of  
7 instrumentation. We don't have an audio on it right  
8 now, so I don't know where the data was being  
9 displayed.

10 But like I say, the cabinet secretary that  
11 is acting as the government's spokesperson for all  
12 of this, has been giving briefings periodically and  
13 he seems to be informed.

14 MAJOR DANIEL SHAW: Okay. Well, we  
15 appreciate that.

16 STEVE LAVIE: However, let me get -- okay,  
17 I have Major Daniel Shaw, U.S. Air Force?

18 MAJOR DANIEL SHAW: Yes, I'm going to give  
19 you my email address.

20 STEVE LAVIE: Yes, how about the email  
21 address.

22 MAJOR DANIEL SHAW: (b)(6)  
23 (b)(6)

24 STEVE LAVIE: Okay (b)(6)

25 (b)(6)

1 MAJOR DANIEL SHAW: Yes, sir.

2 STEVE LAVIE: Okay, if I should hear  
3 anything, and I'll pass this on to my reliefs, that  
4 we think you could use --

5 MAJOR DANIEL SHAW: Yes, sir.

6 STEVE LAVIE: -- we'll be happy to send it  
7 along.

8 MAJOR DANIEL SHAW: We appreciate that.

9 STEVE LAVIE: Like I say, we -- it's

10 (b)(5)

11 MAJOR DANIEL SHAW: Okay.

12 STEVE LAVIE: We're doing projections and  
13 what-ifs that the best I would characterize them are  
14 speculative and conservative.

15 MAJOR DANIEL SHAW: Okay.

16 STEVE LAVIE: You know, we have no idea  
17 that they're anywhere near real.

18 MAJOR DANIEL SHAW: Okay, sir.

19 STEVE LAVIE: By the way, my name is  
20 Steve, too.

21 MAJOR DANIEL SHAW: Yes.

22 STEVE LAVIE: I was once an enlisted  
23 person.

24 MAJOR DANIEL SHAW: Just trying to be as  
25 professional as possible. We greatly appreciate it.

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1 We were given your name, and --

2 STEVE LAVIE: Okay.

3 MAJOR DANIEL SHAW: -- you know, we  
4 thought we would try to touch base with you. Our  
5 NRC rep, she's out of Region IV, Arlington, and like  
6 I said, we're an MML and we just want to try to use  
7 who we have to --

8 STEVE LAVIE: Help you out.

9 MAJOR DANIEL SHAW: Yes, sir.

10 STEVE LAVIE: Yes, because if you hit the  
11 people that actually have been giving us some --  
12 like I said, the Naval Reactors, they have some  
13 actual data, which is the first we got it.  
14 Apparently, the base commander for that shipyard,  
15 apparently sent survey teams all over his base,  
16 because we got eight or nine pages of air sample  
17 data and smear data and direct dose rates.

18 MAJOR DANIEL SHAW: Like I said, we have  
19 through our channels, we have --

20 STEVE LAVIE: But you're not getting the  
21 reactor status.

22 MAJOR DANIEL SHAW: All right, we have  
23 airborne activity concentrations for the isotopes  
24 that you mentioned earlier. You know, we have some  
25 scientists out there as well, and just want the

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1 latest and greatest on the reactors. If we had  
2 that, then we would be doing pretty well, I think.

3 STEVE LAVIE: With regard to your six-hour  
4 delay on the data, and I'm not sure this is going to  
5 be any better to you, have you tried the IAEA  
6 website?

7 MAJOR DANIEL SHAW: Yes, (b)(5)

8 (b)(5)

9 STEVE LAVIE: Okay.

10 MAJOR DANIEL SHAW: No, Wikipedia's got a  
11 pretty good breakdown, and they break down each  
12 reactor or containment area, and it's pretty  
13 current. Whoever's doing the inputs on that knows  
14 what they're talking about.

15 STEVE LAVIE: I'll have to look at it.

16 MAJOR DANIEL SHAW: Yes, it's really good.

17 (b)(5)  
18

19 STEVE LAVIE: Well, yes, it's -- I would

20 (b)(5)  
21  
22

23 MAJOR DANIEL SHAW: Yes.

24 STEVE LAVIE: (b)(5)

25 (b)(5)

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1 (b)(5)

2 MAJOR DANIEL SHAW: Yes, exactly.

3 STEVE LAVIE: Okay. Well, I'll let you  
4 go. And if we do get anything that I think has  
5 meaning to you, on like the reactor safety side or a  
6 status report that isn't more than six hours old,  
7 I'll certainly get in contact with you.

8 MAJOR DANIEL SHAW: Okay.

9 STEVE LAVIE: Thank you.

10 MAJOR DANIEL SHAW: Thank you very much.

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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: PMT. Vince Holahan.

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 Tony Ulises on the line.

6 VINCE HOLAHAN: Say again?

7 HEADQUARTERS OPERATIONS OFFICER: This is  
8 the HOO. I have Tony Ulises on the line.

9 VINCE HOLAHAN: Okay, who's he calling  
10 for?

11 HEADQUARTERS OPERATIONS OFFICER: Just a  
12 PMT.

13 VINCE HOLAHAN: Okay, very good.

14 HEADQUARTERS OPERATIONS OFFICER:  
15 Transferring now.

16 (Off microphone discussion)

17 TONY ULSES: This is Tony Ulises. Is there  
18 someone on the bridge here?

19 VINCE HOLAHAN: Yes, Vince Holahan at NRC.  
20 Tony, how you doing?

21 TONY ULSES: Just fine. I have just a  
22 quick question for you guys. I'm sitting here next  
23 to the NNSA guy who's taking your RASCAL outputs and  
24 doing the longer term calcs. The question is, when  
25 you're doing the RASCAL counts for the spent fuel

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1 pool situation, are you guys taking into account the  
2 thermal plume, in other words the updraft from the  
3 heat from the fire? Or are you making it a surface  
4 level release?

5 VINCE HOLAHAN: Let me see if we can find  
6 Steve Lavie to answer that question.

7 TONY ULSES: All right. Thanks. I  
8 appreciate it, man.

9 (Off microphone discussion)

10 STEVE LAVIE: Yes, Tony. This is Steve  
11 Lavie.

12 TONY ULSES: Hey, Steve. I just got a  
13 quick question. When you're doing your RASCAL  
14 counts for the spent fuel pool fire scenarios, are  
15 you accounting for the thermal updraft, or are you  
16 making it a surface level release?

17 STEVE LAVIE: Surface level release.

18 TONY ULSES: Say again? Steve, say again.

19 STEVE LAVIE: Surface level release.

20 TONY ULSES: Boy, I would advise that you  
21 guys try and elevate it, because, you know, there's  
22 going to be an awful lot of heat coming off that  
23 pool.

24 STEVE LAVIE: The thing is, our assessment  
25 model won't allow us to thermally rise it.

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1 TONY ULSES: Okay.

(b)(5)

2 (b)(5)

3  
4  
5 (Off microphone discussion)

6 TONY ULSES: Steve, did you get that?

7 STEVE LAVIE: Yes, in the background it  
8 sounds like someone's already addressed that?

9 TONY ULSES: No, I'm saying the NNSA guys  
10 are thinking that you guys have taken care of that.  
11 So I would advise you talk to them and make sure  
12 that they understand that you are modeling it as a  
13 surface level release.

14 STEVE LAVIE: NNSA, I don't know we've  
15 talked to them yet. Are they at the DOE NIT?

16 (Off microphone discussion)

17 TONY ULSES: You guys need to get that to  
18 the NARAC guys, okay?

19 STEVE LAVIE: The NARAC guys, yes.

20 TONY ULSES: Okay. You got it, Steve?

21 STEVE LAVIE: NARAC or NNSA?

22 MALE PARTICIPANT: It's the same thing.

23 TONY ULSES: It's the guys that you're  
24 handing your RASCAL counts off to, okay, whoever the  
25 heck they are, all right?

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1                   STEVE LAVIE:   Okay.   That's NARAC.   Okay.

2                   Thank you.

3                   TONY ULSES:     Okay.     All right, Steve.

4                   Thanks.   Bye.

5                   STEVE LAVIE:   Right.

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1  
2 (CONFERENCE CALL INITIATED)

3 TRISH HOLAHAN: PMT.

4 HEADQUARTERS OPERATIONS OFFICER: Yes,  
5 this is the Headquarters Ops Officer. I have Jason  
6 Schaperow on the line.

7 TRISH HOLAHAN: Oh, okay. Thank you.

8 HEADQUARTERS OPERATIONS OFFICER:  
9 Connecting.

10 TRISH HOLAHAN: Okay. Hey, Jason?

11 JASON SCHAPEROW: Speaking.

12 TRISH HOLAHAN: This is Trish Holahan.  
13 I'm trying to put you on the speaker phone.

14 JASON SCHAPEROW: All right.

15 TRISH HOLAHAN: Okay. What we were  
16 wondering is, like, I gather you were in a  
17 conversation with Jennifer Uhle and talking about  
18 running the MACCS code out to the West Coast.

19 JASON SCHAPEROW: To the West Coast?

20 TRISH HOLAHAN: Yes --

21 VINCE HOLAHAN: Hey, Jason. Vince  
22 Holahan. We're having a party here.

23 JASON SCHAPEROW: They're talking about  
24 the West Coast.

25 VINCE HOLAHAN: Hey, here's what's going

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1 on. We're trying to figure out if there's a  
2 possibility of using some different codes that go  
3 beyond what RASCAL does. RASCAL will give us  
4 consequences out to 50 miles.

5 Apparently, Jennifer in a conversation  
6 with the chairman, had indicated that Research might  
7 be able to provide some assistance that would allow  
8 us to make some projections from Fukushima to  
9 possibly the West Coast. Are you aware of anything  
10 that Research has that might be able to do that?

11 JASON SCHAPEROW: Well, I'll tell you  
12 what. I was involved in some discussions earlier  
13 today about the need to do dose calculations at  
14 further distances than 50 miles.

15 TRISH HOLAHAN: Yes.

16 JASON SCHAPEROW: But I don't remember  
17 hearing anything about the West Coast. That's new  
18 to me. I'm not sure where that direction came from.

19 VINCE HOLAHAN: Well, that's where this  
20 whole thing is going from, is the indications are if  
21 there were something catastrophic going on at  
22 Fukushima, then the question is, is what's the  
23 impact on the West Coast.

24 JASON SCHAPEROW: Who asked that question?

25 VINCE HOLAHAN: In particular, of

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1 Washington, Oregon or California.

2 JASON SCHAPEROW: Who asked that question  
3 and when?

4 VINCE HOLAHAN: Well, the chairman's  
5 interested. And quite frankly, he's looking for a  
6 response --

7 JASON SCHAPEROW: I'm thinking that the  
8 task got goofed around and mixed up. I heard a  
9 task, but it wasn't that task.

10 TRISH HOLAHAN: Yes, well, the task that  
11 the chairman thinks is Research was running codes  
12 greater than 50 miles and going all the way to the  
13 West Coast of the country.

14 JASON SCHAPEROW: Well, did you talk to  
15 the chairman?

16 TRISH HOLAHAN: Pardon me?

17 JASON SCHAPEROW: Who told you that?

18 TRISH HOLAHAN: The chairman, well, told  
19 the ET that.

20 JASON SCHAPEROW: The chairman --

21 TRISH HOLAHAN: They started this  
22 conversation with Jennifer.

23 JASON SCHAPEROW: I'm really -- let me  
24 tell you what I know.

25 TRISH HOLAHAN: Okay.

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1 JASON SCHAPEROW: I was in a conference  
2 room in the House of Representatives office  
3 building, called the Rayburn Building, this morning.

4 TRISH HOLAHAN: Yes.

5 JASON SCHAPEROW: And while we were  
6 sitting there, the question came up, well, how far  
7 out will we be exceeding the PAGs?

8 TRISH HOLAHAN: Okay.

9 JASON SCHAPEROW: And somebody said, I  
10 guess it was Jennifer, she said, well, RASCAL only  
11 goes out to 50 miles. So RASCAL's not going to help  
12 us. So first we called Sandia, and we said, you  
13 know, we need to do some MACCS calculations for  
14 this, because you can out beyond 50 miles. We want  
15 to see how far out the PAGs will be exceeded.

16 TRISH HOLAHAN: Okay.

17 JASON SCHAPEROW: Then we called the Ops  
18 Center, and the Ops Center said, oh, yes, that's  
19 fine. And we're working on that. We're having  
20 Lawrence Livermore run some NARAC calculations for  
21 us also, to look at that. So that's what was going  
22 on this morning at around 11 o'clock.

23 TRISH HOLAHAN: Okay.

24 JASON SCHAPEROW: Now, it's now almost  
25 11:00 p.m., so I don't know, like, if the direction

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1 got changed or if the NARAC calculations finished.  
2 I would imagine they have been finished a long time  
3 ago.

4 TRISH HOLAHAN: No. NARAC deleted our  
5 email requesting that information. So we asked them  
6 again at 5:30 and they haven't gotten back to us  
7 yet. So the chairman is anxious for something to be  
8 done, and he doesn't know, you know. And maybe it's  
9 as simple as going out far enough until it drops off  
10 below the PAGs, but he would like to know the doses  
11 to the individuals on the West Coast.

12 JASON SCHAPEROW: Okay, now that's a new  
13 task that I have not heard yet. Now, the MACCS code  
14 only predicts doses out to a thousand miles.

15 TRISH HOLAHAN: Okay. And --

16 JASON SCHAPEROW: So I haven't really  
17 given that any thought as to what we could do  
18 beyond. I mean, certainly MACCS is a flexible  
19 research tool, but I think our plume dispersion ends  
20 at a thousand miles. So you know, I'm not sure what  
21 to do between a thousand miles and 5,000 miles.  
22 That's --

23 TRISH HOLAHAN: Okay. And Charlie Tinkler  
24 told us that same answer, but he didn't know if we  
25 only went to a thousand miles, or that was the

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1 capability of the model to only go to a thousand  
2 miles.

3 JASON SCHAPEROW: Capability of what  
4 model?

5 TRISH HOLAHAN: The MACCS model.

6 VINCE HOLAHAN: The MACCS.

7 JASON SCHAPEROW: He didn't know. Yes,  
8 well, I've seen the MACCS input file, and it has  
9 dispersion sigma-x and sigma-y tables that go out  
10 that far. Now there's also a sigma-x, sigma-y power  
11 loft function which goes out. You could take out as  
12 far as you want, obviously, the function.

13 But now what time did you talk to Charlie,  
14 because I haven't talked to him, like, since, like,  
15 9:00 this morning, so I don't know what's going on  
16 there either.

17 VINCE HOLAHAN: Ten minutes ago.

18 TRISH HOLAHAN: Ten minutes ago. He was  
19 going look it up and give us a call back.

20 JASON SCHAPEROW: Oh, okay. All right.

21 TRISH HOLAHAN: But then Angela Coggins  
22 suggested we contact you.

23 JASON SCHAPEROW: Okay, so what is your  
24 question to me?

25 TRISH HOLAHAN: Well, we wanted to know if

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1 research was running any models, or had the  
2 capability of running models to calculate the doses  
3 to individuals on the West Coast from Japan.

4 JASON SCHAPEROW: Well, we had set out --  
5 Jennifer and I spoke with Sandia this morning. And  
6 we gave them very explicit parameters to put into  
7 their code and run it.

8 TRISH HOLAHAN: Okay.

9 JASON SCHAPEROW: Now whether -- I wasn't  
10 expecting to talk to them until tomorrow morning  
11 about it. So we're talking about -- they want it  
12 tonight?

13 TRISH HOLAHAN: Well, no, we need to know  
14 if they're running it tonight. I think that's the  
15 answer the chairman wants today.

16 JASON SCHAPEROW: Okay. Are they running  
17 the calculation? I don't think they're running it  
18 out to the West Coast. So you asked Charlie that  
19 question? So you called me also?

20 TRISH HOLAHAN: Yes.

21 JASON SCHAPEROW: Why are you calling two  
22 people who work closely together? I guess I'm not  
23 understanding that.

24 TRISH HOLAHAN: Well, we called Charlie  
25 first at Brian's (phonetic) recommendation. And

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1 then I was told that you were involved in the  
2 conversation with Jennifer and the chairman this  
3 morning, so we called you as well.

4 JASON SCHAPEROW: Oh, I'm sorry. So what  
5 did Charlie tell you he's going to do?

6 TRISH HOLAHAN: He was going to look up to  
7 see if it was -- the capability of --

8 JASON SCHAPEROW: Oh.

9 TRISH HOLAHAN: -- the MACCS code could go  
10 beyond a thousand miles.

11 JASON SCHAPEROW: Yes. All right. And he  
12 was at home I take it when you talked to him?

13 TRISH HOLAHAN: Yes.

14 JASON SCHAPEROW: Because I tried to call  
15 him a little while ago, and his phone was busy.

16 TRISH HOLAHAN: Probably we were talking  
17 to him.

18 JASON SCHAPEROW: Oh. Okay. All right.  
19 Well, I will check with Charlie and get back to you.  
20 What number can I reach you at?

21 TRISH.HOLAHAN: 301-816-5419.

22 JASON SCHAPEROW: Okay. Will do. Thank  
23 you, Trish.

24 TRISH HOLAHAN: Okay. Thanks very much.

25 JASON SCHAPEROW: All right. Yes. Bye,

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1     bye.

2                   TRISH HOLAHAN:  Bye, bye.

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3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI  
5 PMT RAAD ASST DIRECTOR AUDIO FILES

6 + + + + +

7 THURSDAY,  
8 MARCH 17, 2011

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1  
2 (CONFERENCE CALL INITIATED)

3 FEMALE PARTICIPANT: NRC Operations Office.

4 CHRIS SMITH: Hi, this is Chris Smith at  
5 DOE.

6 FEMALE PARTICIPANT: Yes. Who are you  
7 looking to speak to?

8 CHRIS SMITH: I was trying to get a hold  
9 of Protective Measures.

10 FEMALE PARTICIPANT: Well you've gotten the  
11 right group. Anyone in particular?

12 CHRIS SMITH: So I don't know an individual.

13 FEMALE PARTICIPANT: Okay.

14 CHRIS SMITH: I want to talk to whoever can  
15 best speak to the RASCAL source term you guys provided  
16 to NARAC.

17 FEMALE PARTICIPANT: Okay. Hold on one  
18 second.

19 CHRIS SMITH: Sure.

20 FEMALE PARTICIPANT: Lou, DOE wanting to  
21 talk about NARAC.

22 LOU BRANDON: Hello, this is Lou Brandon.

23 CHRIS SMITH: Hi. This is Chris Smith at  
24 DOE Headquarters.

25 LOU BRANDON: Hi, Chris.

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1 CHRIS SMITH: So I'm not a NARAC person.  
2 I'm not going to pretend to understand all the nuances  
3 to RASCAL and the source terms you create. I just need  
4 to understand some basics so that when we speak to the  
5 source term we're saying things that are consistent with  
6 what you guys intended.

7 LOU BRANDON: Yes, this is good. These  
8 communications have gone wild at times.

9 CHRIS SMITH: And I'm sure it's largely our  
10 fault. All right, so I just have spent many of minutes  
11 talking to the folks at NARAC and they are preparing  
12 to do runs using what we believe to be the last source  
13 term you guys provided us which --

14 LOU BRANDON: Sorry, I'm just going to get  
15 a notepad so I can make some notes here.

16 CHRIS SMITH: No, that's fine.

17 LOU BRANDON: Okay.

18 CHRIS SMITH: That which reflects, and I'll  
19 go over it in general terms, a 33 percent core failure  
20 of one reactor --

21 LOU BRANDON: Okay.

22 CHRIS SMITH: -- and a, and I'll say fire  
23 and I'm not, and I wanted, that's one of the things I  
24 wanted to verify, a fire at two spent fuel pools in  
25 (indiscernible, possibly "Unit") 3 and 4.

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1 LOU BRANDON: Okay.

2 CHRIS SMITH: Is that consistent with your  
3 understanding of the last source term that you provided  
4 to NARAC?

5 LOU BRANDON: I think so. Yes, there was  
6 one that was sent out this morning around 10:00 or 11:00  
7 and it may have been this one.

8 CHRIS SMITH: Okay.

9 LOU BRANDON: Okay. So --

10 CHRIS SMITH: So there's a couple of things  
11 I want to make sure I've got based on the way they described  
12 the source term to me to then to see that we're not in  
13 this game of telephone where what I end up saying is  
14 completely different than what you guys intended.

15 LOU BRANDON: What we're understanding here,  
16 yes. Okay.

17 CHRIS SMITH: So my understanding is, and  
18 I'll take them one piece at a time.

19 LOU BRANDON: What was your last name again,  
20 Chris?

21 CHRIS SMITH: Smith.

22 LOU BRANDON: Smith, okay.

23 CHRIS SMITH: (Indiscernible). Okay,  
24 sorry. Somebody was handing me something. All right,  
25 so I'm going to take them one piece at a time and I'm

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1 sure it's an over simplification, but you can tell me  
2 when it's more complex.

3 LOU BRANDON: Okay.

4 CHRIS SMITH: So dealing with this, one of  
5 the three components is a containment failure and 33  
6 percent releasability of one of the reactor --

7 LOU BRANDON: The 33 percent probably  
8 represents core melt. Thirty-three percent of the core  
9 is melted.

10 CHRIS SMITH: Okay. So that's what I want  
11 to make sure I understand and represent (indiscernible,  
12 possibly "particularly") --

13 LOU BRANDON: Yes. That's the way we've  
14 been doing all these runs.

15 CHRIS SMITH: Yes.

16 LOU BRANDON: There are some 40 percents,  
17 some 100 percents, so there are two switches in RASCAL,  
18 you can melt the core and then you can release it at  
19 a certain rate.

20 CHRIS SMITH: Okay. So if you melt the core  
21 33 percent in I guess over simplified terms, does that  
22 mean that 33 percent of the total core inventory is  
23 available for release?

24 LOUBRANDON: For release, yes. So you think  
25 of it has a containment, bottled up in containment.

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1 CHRIS SMITH: Okay. And so it's not just  
2 volatiles, it's, so my understanding of RASCAL is it  
3 calculates the entire curie load of a reactor?

4 LOUBRANDON: Yes. You get all of the fission  
5 products for 33 percent of the core which include primarily  
6 noble gases, iodines and cesiums, and then some  
7 particulates.

8 CHRIS SMITH: Okay. So it's, by saying 33  
9 percent you've made one-third of that core inventory  
10 available for your release term?

11 LOU BRANDON: That's right.

12 CHRIS SMITH: Okay. And a nuance that  
13 probably doesn't matter for any of the calculations,  
14 but does RASCAL just address the fission products and  
15 not the uranium?

16 LOU BRANDON: Well, yes. I have yet to see  
17 uranium in the source term released.

18 CHRIS SMITH: Okay. So it is, I guess from  
19 my terminology, is it fission products or is it total  
20 curies?

21 LOU BRANDON: It's Fission products, so yes,  
22 if you talk about the total curies I see what you're  
23 saying, there's some uranium in there. We're just talking  
24 about what might get out of the plant and we characterize  
25 it as best possible.

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1                   It doesn't model like a Chernobyl scenario  
2 where you blow fuel rods all over the place, so you don't  
3 see uranium in the source term. I don't think I've got  
4 any examples. Am I making sense?

5                   CHRIS SMITH: So, again, I'm not the PHD,  
6 so if you're melting the fuel rod you're, the assumption  
7 is the uranium melts but stays there and only the fission  
8 products are available for the release.

9                   LOU BRANDON: Yes.

10                  CHRIS SMITH: Okay. Got it. So the second  
11 piece when you have containment failure, it's a, and  
12 I don't want to say instantaneous, but it's a release  
13 that occurs in a matter of hours?

14                  LOU BRANDON: Yes. Then the second part  
15 is we've been modeling a lot of these scenarios as 100  
16 percent per hour as a catastrophic failure. So you think  
17 of that as, we've had some indication of a containment  
18 failure for Unit 2, and --

19                  CHRIS SMITH: Failure for Unit 3. That's  
20 some indication that I think of what I've seen, too.

21                  LOU BRANDON: Okay. So they may be having,  
22 I haven't heard that yet.

23                  CHRIS SMITH: Got it. Okay.

24                  LOU BRANDON: But, you know, that could,  
25 the way we're modeling it it's a catastrophic failure,

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1 like the, you know, you blew a big hole in the thing  
2 and it's all available to be released to the atmosphere.

3 CHRIS SMITH: And it, not only, so okay.  
4 So if the most recent term is 33 percent, which is what  
5 they're telling me --

6 LOU BRANDON: That establishes the  
7 concentration in containment.

8 CHRIS SMITH: And then within RASCAL that  
9 part of the source term there's the how quickly is it  
10 released, right?

11 LOU BRANDON: Yes, that's right. (b)(5)

12 (b)(5)

13 CHRIS SMITH: (b)(5)

14 (b)(5)

15 LOU BRANDON: (b)(5)

16 (b)(5)  
17  
18  
19  
20

21 CHRIS SMITH: So it's a 15-minute increments  
22 --

23 LOU BRANDON: That's right.

24 CHRIS SMITH: -- and it's got a peach early  
25 on --

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1 LOU BRANDON: Yes.

2 CHRIS SMITH: -- but it does take hours.

3 LOU BRANDON: Yes. If you look at the source  
4 terms we sent to NARAC, what do calculations over 24  
5 hours and you still see some stuff coming out even at  
6 24.

7 CHRIS SMITH: Okay. That helps me. Okay.  
8 So now the second mechanism I need to understand is  
9 for the spent --

10 LOU BRANDON: Spent fuel pool.

11 CHRIS SMITH: -- pool release.

12 LOU BRANDON: Okay.

13 CHRIS SMITH: Is that, I keep hearing fire.  
14 I want to confirm is that really the release mechanism?

15 LOU BRANDON: Well right now the spent fuel  
16 pools are exposed to the atmosphere.

17 CHRIS SMITH: Correct.

18 LOU BRANDON: And the typical --

19 CHRIS SMITH: The typical (indiscernible),  
20 yes.

21 LOU BRANDON: The typical progression would  
22 be the, as you lose water they'll warm up and as they  
23 warm up you'll eventually burst the cladding and get  
24 some fission products released and if it gets hot enough  
25 then the zirconium starts on fire.

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1 CHRIS SMITH: Okay.

2 LOU BRANDON: RASCAL doesn't model all of  
3 those details. All it models is, I'll tell you exactly  
4 how it models. It asks for a date of the freshest batch.

5 So in a reactor when you refuel typically  
6 you'll take one-third of the core out and put it in spent  
7 fuel --

8 CHRIS SMITH: Got it.

9 LOU BRANDON: -- pool.

10 CHRIS SMITH: Yes, yes. I understand that.

11 LOU BRANDON: Okay. So RASCAL asks you for  
12 the date of the freshest batch that's in the spent fuel  
13 pool.

14 CHRIS SMITH: Okay.

15 LOU BRANDON: Spent fuel pool.

16 CHRIS SMITH: So there's some conservative  
17 nature there, correct?

18 LOU BRANDON: Yes. It allows the decay for  
19 that amount of time.

20 CHRIS SMITH: Got it.

21 LOU BRANDON: So if it was a year old you'll  
22 have much less fission products available then if it  
23 was two weeks old.

24 CHRIS SMITH: Yes.

25 LOU BRANDON: Okay. Then for all the

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1 subsequent bundles that are in the spent fuel pool it  
2 treats them as if they were refueled on an 18-month basis.

3 CHRIS SMITH: Ah.

4 LOU BRANDON: So the second bundle would  
5 be 18 months old and the --

6 CHRIS SMITH: Because that's the --

7 LOU BRANDON: -- third --

8 CHRIS SMITH: -- standard refueling cycle.

9 LOU BRANDON: That's just approximately how  
10 often these plants refuel. Right.

11 CHRIS SMITH: Yes, okay.

12 LOU BRANDON: And then that's what gives  
13 you the source term, and when we release it from a spent  
14 fuel pool we also use that 100 percent per hour, that's  
15 what we have been doing because there's nothing to hold  
16 it in --

17 CHRIS SMITH: Okay.

18 LOU BRANDON: -- if you melt the fuel.

19 CHRIS SMITH: Okay. I got it.

20 LOU BRANDON: Now in reality it's a different  
21 story. You know, the stuff would melt slower in the  
22 fuel, the fission products would be released over a longer  
23 period of time at a slower rate.

24 CHRIS SMITH: Yes.

25 LOU BRANDON: But the model is not so

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1 sophisticated.

2 CHRIS SMITH: Yes, understood. But so the  
3 release mechanism, although we kind of equivocally say  
4 fire, is really just --

5 LOU BRANDON: It's just spent fuel pool  
6 damage.

7 CHRIS SMITH: Okay.

8 LOU BRANDON: Melting --

9 CHRIS SMITH: Melt.

10 LOU BRANDON: -- or you can think of it melting,  
11 yes.

12 CHRIS SMITH: It's a dry uncontained melt.

13 LOU BRANDON: That's right.

14 CHRIS SMITH: Okay. So, okay,  
15 fundamentally, so does the code do something other than  
16 the age factors, the release mechanism for spent fuel  
17 any different than a release mechanism for a catastrophic  
18 reactor failure?

19 LOU BRANDON: No, not much. It --

20 CHRIS SMITH: In 15-minute type of --

21 LOU BRANDON: Yes.

22 CHRIS SMITH: -- (indiscernible).

23 LOU BRANDON: It won't allow you to release  
24 anything for two hours figuring that there's a point  
25 where the fuel was covered up.

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1 CHRIS SMITH: Huh, okay.

2 LOU BRANDON: And you tell it what time the  
3 fuel was uncovered, it'll delay it for two hours, okay.

4 CHRIS SMITH: So it has a built-in assumption  
5 that it's, because it's not at power. There's a 2-hour  
6 build up time?

7 LOU BRANDON: Yes, that's right. It's not  
8 the freshest fuel so it takes some time for it to heat  
9 up and begin to release fission products.

10 CHRIS SMITH: But after that on a broad scale,  
11 the release mechanism is equivocal --

12 LOU BRANDON: Yes. Yes, you get the fission  
13 products --

14 CHRIS SMITH: But we're not talking about  
15 a difference between a melt and a fire?

16 LOU BRANDON: Yes, there's no difference  
17 --

18 CHRIS SMITH: Okay. Got it.

19 LOU BRANDON: -- it's all treated as if it's  
20 melted --

21 CHRIS SMITH: Got it.

22 LOU BRANDON: -- after a couple hours and  
23 those fission products are available for release.

24 CHRIS SMITH: Okay. That's been very  
25 helpful. The third thing, and this is kind of, I guess,

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1 specific to the source term, so you may need to check  
2 and get back to me.

3 LOU BRANDON: Okay.

4 CHRIS SMITH: What I saw from the NARAC folks  
5 was an indication that Pool 4 had one at, I'm sure there's  
6 a better way to say this, but --

7 LOU BRANDON: Oh.

8 CHRIS SMITH: -- one core's worth of fuel  
9 in it.

10 LOU BRANDON: What happened with Unit 4 was  
11 that they offloaded the reactor fuel into the spent fuel  
12 pool for some reason. So rather than one --

13 CHRIS SMITH: One-third.

14 LOU BRANDON: -- batch, right, one-third  
15 of the core in there as you typically expect, you had  
16 three fresh batches. The whole core was in there.

17 CHRIS SMITH: So, okay. And the reason I  
18 ask is I've seen other reporting which may be wrong,  
19 that said, and the term that has been used is bundles,  
20 that --

21 LOU BRANDON: Oh, yes. I mistakenly used  
22 the term bundle last night and they corrected me right  
23 away, a batch. A batch is a bunch of bundles.

24 CHRIS SMITH: Yes. So what I heard, and  
25 so maybe you can, I'd appreciate it if maybe you can

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1 run it down just to make sure we're all on the same page

2 --

3 LOU BRANDON: Okay.

4 CHRIS SMITH: -- is that Number 4 had, and  
5 I'll round it because I don't remember the exact number,  
6 was (b) bundles and if there's approximately (b) bundles  
(4) (4)  
7 per core load --

8 LOU BRANDON: Yes, for those --

9 CHRIS SMITH: -- for that particular --

10 LOU BRANDON: Yes, for --

11 CHRIS SMITH: -- 584 megawatt reactor.

12 LOU BRANDON: I think that's what's modeled  
13 in RASCAL. Let me see, I got a run right here. I'm pretty  
14 sure it's (b) rods per core, I mean bundles per core.  
(4)

15 CHRIS SMITH: So I guess the question I want  
16 to make sure of is the source term we got is it (b) bundles,  
(4)  
17 which would be, you know, they took the entire core --

18 LOU BRANDON: That's one core's worth, so  
19 if you had (b)(4) that would be three core's worth --

20 CHRIS SMITH: Exactly.

21 LOU BRANDON: -- and so you would be saying

22 --

23 CHRIS SMITH: Or it would be 2-1/2 core's  
24 worth, or 2 whatever.

25 LOU BRANDON: Yes, okay.

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1 CHRIS SMITH: 2-1/3 --

2 LOU BRANDON: So I think with the --

3 CHRIS SMITH: -- if I'm understanding the  
4 third.

5 LOU BRANDON: -- the standard racking you  
6 can fit nine batches in there. Does that sound about  
7 right?

8 CHRIS SMITH: Nine batches?

9 LOU BRANDON: Which would be --

10 CHRIS SMITH: It would be three core loads.

11 LOU BRANDON: Yes, which would be in this  
12 vicinity of (b)(4) bundles.

13 CHRIS SMITH: So --

14 LOU BRANDON: Did you guys ever talk about  
15 how many bundles within Unit 4 spent fuel pool? How  
16 many batches? Is it high density racking?

17 MALE PARTICIPANT: I don't think we --

18 LOU BRANDON: Okay. I'm getting indication  
19 it's not high density racking. I think you knew that  
20 already, right?

21 CHRIS SMITH: Well I didn't know.

22 LOU BRANDON: So I think, I heard some number  
23 that they could fit about nine batches in the spent fuel  
24 pool unless it's in a high density racking.

25 CHRIS SMITH: So if I could ask one favor

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1 from you?

2 LOU BRANDON: Okay.

3 CHRIS SMITH: If you can get a sense that  
4 you guys are comfortable with what you think is a realistic  
5 estimate of the number of, and I'll defer to whatever  
6 term you want to use, whether it's the number of the  
7 batches, the number of bundles --

8 LOU BRANDON: Okay.

9 CHRIS SMITH: -- core loads, for the two,  
10 the Number 3 and the Number 4 spent fuel pools because  
11 I want to make sure that our assumption is the same,  
12 consistent with your assumption. Does that make sense?

13 LOU BRANDON: Number 2, Number 3, and Number  
14 4?

15 CHRIS SMITH: I think just 3 and 4, because  
16 Number 2 we're just worried about the reactor at this  
17 point.

18 LOU BRANDON: Okay. Number 3 and Number  
19 4, you want to know how we've characterized --

20 CHRIS SMITH: So I guess I'll --

21 LOU BRANDON: -- the number of batches --

22 CHRIS SMITH: The source term I think we  
23 got from you guys said one batch for 4 and one bundle  
24 for 3.

25 LOU BRANDON: Well that doesn't sound right.

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1 From my understanding right now, we would say --

2 CHRIS SMITH: Three batches and one batch.

3 LOU BRANDON: We would say spent fuel pool  
4 Number 3 has one fresh batch --

5 CHRIS SMITH: Got it.

6 LOU BRANDON: -- it's about 100 days old  
7 and then the rest of them are old and it can have --

8 CHRIS SMITH: And the rest of them, okay.

9 LOU BRANDON: -- up to, it can have maybe  
10 nine more in there, and Number 4 has three fresh batches  
11 --

12 CHRIS SMITH: Plus --

13 LOU BRANDON: -- plus --

14 CHRIS SMITH: -- other --

15 LOU BRANDON: -- the old fuel, right, which  
16 would allow up to --

17 CHRIS SMITH: Okay, so --

18 LOU BRANDON: -- six more of those.

19 CHRIS SMITH: So, I guess, let me rephrase  
20 it. If you can tell me the source term that you guys  
21 sent to NARAC, how much fuel is in those two spent fuel  
22 pools?

23 LOU BRANDON: Okay. The one that we sent  
24 this morning?

25 CHRIS SMITH: Yes, the source term you gave

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1 us, yes, correct.

2 LOU BRANDON: Okay. Okay. I understand  
3 what you're saying.

4 CHRIS SMITH: Got it.

5 LOU BRANDON: All right. What's your  
6 number?

7 CHRIS SMITH: It's (202) --

8 LOU BRANDON: (202) --

9 CHRIS SMITH: -- 586 --

10 LOU BRANDON: -- 586 --

11 CHRIS SMITH: -- 8100 --

12 LOU BRANDON: -- 8100, oh that's the NIT  
13 Office number?

14 CHRIS SMITH: Correct. And just ask for  
15 either me by name or the Nuclear Incident Team.

16 LOU BRANDON: Okay. Got it.

17 CHRIS SMITH: Thank you very much.

18 LOU BRANDON: I'll call you back in two  
19 minutes here.

20 CHRIS SMITH: No rush.

21 LOU BRANDON: Okay.

22 CHRIS SMITH: I got all night.

23 LOU BRANDON: All right.

24 CHRIS SMITH: Thanks.

25 LOU BRANDON: I'll talk to you, Chris. Bye.

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CHRIS SMITH: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 GREG CASTO: NRC Operations Center.

4 MALE PARTICIPANT: Hey, I've got Jeff  
5 Kowalczyk for you.

6 GREG CASTO: Okay.

7 MALE PARTICIPANT: All right?

8 GREG CASTO: Okay. Hello?

9 JEFF KOWALCZYK: Hello.

10 GREG CASTO: Hello, this is Greg Casto in  
11 the PMT.

12 JEFF KOWALCZYK: Hey, Greg. This is Jeff  
13 Kowalczyk down at USAID.

14 GREG CASTO: Hey, Jeff.

15 JEFF KOWALCZYK: Hey. I was just wondering,  
16 the last thing, and our DOE rep left here a couple hours  
17 ago and he said they were expecting to get results from  
18 the, you know, the RAP Teams on the ground there by about  
19 midnight and I was just going to call and check to see  
20 if you guys had that and if you guys were, you know,  
21 doing the modeling and if you guys had been, you know,  
22 if they had reported to you yet on that.

23 GREG CASTO: No. We --

24 JEFF KOWALCZYK: No, okay.

25 GREG CASTO: -- we do not. What we, in fact

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1 we are on the call right now with DOE and NARAC and a  
2 few others.

3 JEFF KOWALCZIK: Okay, okay. So they're  
4 looking at doing that though.

5 GREG CASTO: AMS is in the air --

6 JEFF KOWALCZIK: Okay.

7 GREG CASTO: -- but it will be probably at  
8 least another six hours --

9 JEFF KOWALCZIK: Okay.

10 GREG CASTO: -- before we have some readings

11 --

12 JEFF KOWALCZIK: Okay, is that --

13 GREG CASTO: -- and they won't be active  
14 readings. They'll be historical deposition readings.

15 JEFF KOWALCZIK: Okay. Just to kind of learn  
16 me on the reason for that, is there a disadvantage, I  
17 know there's a time disadvantage to that, I mean is there  
18 a reason they can't do the active reading?

19 GREG CASTO: Because they are in the air,  
20 one, and they're not going to come that close in the  
21 vicinity of the site.

22 JEFF KOWALCZIK: Okay.

23 GREG CASTO: They have very low turn back  
24 levels plus they have to protect their equipment.

25 JEFF KOWALCZIK: Sure, understood, okay.

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1 GREG CASTO: Yes. So we're going to get,  
2 they're going to get us the best they can get us, but  
3 they're not going to get us, sounds like at this time,  
4 active, an active flyover of the site or the downwind  
5 plume.

6 JEFF KOWALCZIK: Okay. Or the downwind  
7 plume, okay?

8 GREG CASTO: Correct.

9 JEFF KOWALCZIK: Okay. Well at least, I  
10 mean at least you guys are having something to work with,  
11 and anticipated they would, eventually I'm going to need  
12 to brief the USAID Administrator on this so they can  
13 tell their DART Team, you know, what's going on.

14 But the anticipated time is about six hours  
15 from now, is that what I'm hearing then?

16 GREG CASTO: That's our guesstimate.

17 JEFF KOWALCZIK: Guesstimate, okay.

18 GREG CASTO: It would be, your best  
19 information would be through the DOE NIT.

20 JEFF KOWALCZIK: Okay, okay.

21 GREG CASTO: Okay?

22 JEFF KOWALCZIK: I will contact them.

23 GREG CASTO: But, you know, if you,

(b)  
(5)

24 (b)(5)  
25

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1 JEFF KOWALCZIK: Yes. Yes, they were, and

2 (b)(5)

3 (b)(5) So, not a problem.

4 GREG CASTO: Okay.

5 JEFF KOWALCZIK: Okay. I appreciate it and  
6 if there's anything before, you know --

7 GREG CASTO: Sure.

8 JEFF KOWALCZIK: -- later in the morning,  
9 I'll give you a call back then.

10 GREG CASTO: Okay.

11 JEFF KOWALCZIK: Okay. Thank you very much.

12 GREG CASTO: No problem.

13 JEFF KOWALCZIK: All right, bye.

14 GREG CASTO: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 DAN BLUMENTHAL: Hello?

4 RANDY SULLIVAN: Hey, we're looking for Dan  
5 Blumenthal or somebody like that?

6 DAN BLUMENTHAL: Speaking. Yes, that's me.

7 RANDY SULLIVAN: My name's Randy Sullivan.  
8 I'm at NRC, and we are --

9 DAN BLUMENTHAL: Hi, Randy.

10 RANDY SULLIVAN: -- and we are desperate  
11 people. Dan --

12 DAN BLUMENTHAL: You don't sound desperate.

13 RANDY SULLIVAN: Yes. Yes, well at this  
14 time in the morning we're a little bit slap happy, too.  
15 But I understand that the AMS assets roll up to you.  
16 Does that --

17 DAN BLUMENTHAL: That's right.

18 RANDY SULLIVAN: Outstanding. We're  
19 attempting to understand some of the limitations that  
20 you have regarding actually getting us information about  
21 the active plume.

22 I understand that you guys did a run and  
23 you're processing the data, but --

24 DAN BLUMENTHAL: Right.

25 RANDY SULLIVAN: -- that that probably did

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1 not involve passing over the site or getting --

2 DAN BLUMENTHAL: It did.

3 RANDY SULLIVAN: Oh, you did pass over?

4 DAN BLUMENTHAL: Yes, we flew over, yes.

5 RANDY SULLIVAN: The actual site?

6 DAN BLUMENTHAL: Yes.

7 RANDY SULLIVAN: Cool. And did you happen,  
8 were you able to get spectral data of the plume?

9 DAN BLUMENTHAL: Well we got spectral data.  
10 Whatever we flew over, you know, you can't tell the  
11 difference between whether it's a plume --

12 RANDY SULLIVAN: Sure.

13 DAN BLUMENTHAL: -- floating or something  
14 on the ground, but, yes, the spectral data our, actually  
15 we're kind of busy --

16 RANDY SULLIVAN: Yes.

17 DAN BLUMENTHAL: -- being that we have to  
18 go brief a three star general about our flight.

19 RANDY SULLIVAN: Okay.

20 DAN BLUMENTHAL: But we'd love to talk to  
21 you some more after and I'm sitting next to Mike Reed  
22 (phonetic), our scientist, who's analyzing it, who enjoyed  
23 looking at the really funky spectra because it's half  
24 a million counts per second, so --

25 RANDY SULLIVAN: Cool. Now --

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1 DAN BLUMENTHAL: -- if you can picture, you  
2 can imagine that they're not a pretty sight.

3 RANDY SULLIVAN: -- when do you think we'll  
4 have data?

5 DAN BLUMENTHAL: Well we should, well we'll  
6 send it to the Home Team and you guys can --

7 RANDY SULLIVAN: I understand. When --

8 DAN BLUMENTHAL: -- (indiscernible)  
9 together and --

10 RANDY SULLIVAN: -- do you think you'll --

11 DAN BLUMENTHAL: -- (indiscernible).

12 RANDY SULLIVAN: When do you think you'll  
13 send it to the Home Team?

14 DAN BLUMENTHAL: Well the Home Team has the  
15 data, but we have to do the proper calibrations, so right  
16 now it's just counts per second and stuff like that.

17 But if you want to look at spectra, you can  
18 work with the Home Team to pick out, you know, appropriate  
19 spectra and stuff like that so you don't have to sort  
20 through four hours of second-by-second data from 12  
21 (indiscernible) 630 (indiscernible).

22 RANDY SULLIVAN: Okay. So I understand you  
23 have downloaded the data to the Home Team, they are  
24 processing it. So I should talk to them now, right?

25 DAN BLUMENTHAL: Yes, you can talk to them.

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1 RANDY SULLIVAN: And that's what you said,  
2 right?

3 DAN BLUMENTHAL: Yes.

4 RANDY SULLIVAN: That they have your data?

5 DAN BLUMENTHAL: Did we succeed in getting  
6 it to the Home Team yet or no? I know we were having  
7 bandwidth limitations so we didn't want to slow down  
8 our analysis with just sending the data, but we will  
9 do that in the next couple hours. We'll make sure it's  
10 completely to them.

11 RANDY SULLIVAN: Okay. Well then, okay,  
12 so we won't be getting data anytime soon, is what I heard  
13 you say?

14 DAN BLUMENTHAL: What do you define as soon?

15 RANDY SULLIVAN: Now, in an hour, in two.

16 DAN BLUMENTHAL: Two's not -- did you get  
17 the data to the Home Team or not? The aerial data? No,  
18 just the raw data, no. You did?

19 MALE PARTICIPANT: Yes.

20 DAN BLUMENTHAL: Oh, yes, the Home Team has  
21 the raw data now.

22 RANDY SULLIVAN: Okay.

23 DAN BLUMENTHAL: Sure.

24 RANDY SULLIVAN: Thanks for your help.

25 DAN BLUMENTHAL: Okay. So, yes, so they

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1 can leave more with them and see what they can give you  
2 and stuff, you know, as we got to validate it and calibrate  
3 and stuff like that.

4 RANDY SULLIVAN: That would be very good.

5 DAN BLUMENTHAL: But if you specific  
6 questions then, you know, it's probably better work on  
7 those as opposed to just -- oh, we gotta go?

8 RANDY SULLIVAN: Okay.

9 DAN BLUMENTHAL: Yes, if you have anymore  
10 questions give me a call on this number.

11 RANDY SULLIVAN: Thank you.

12 DAN BLUMENTHAL: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TERRY REIS: Protective Measures Team, Terry  
4 Reis.

5 MALE PARTICIPANT: Yes, Terry, I got Jack  
6 Foster from Japan on the line. I'll connect him in.

7 TERRY REIS: Okay. Hi, Jack.

8 JACK FOSTER: Hey, who is this?

9 TERRY REIS: This is Terry.

10 JACK FOSTER: Terry, how you doing buddy?

11 TERRY REIS: Good. Let me see if I got a  
12 speaker on this phone or do you want to talk to me privately?

13 JACK FOSTER: No, speaker sounds good. This  
14 concerns all of you.

15 TERRY REIS: Anybody know how to do this?

16 JACK FOSTER: Push the "hands free" button.

17 TERRY REIS: This is not one of the, I don't  
18 know why he called me on this phone. This is not a set  
19 --

20 JACK FOSTER: Okay. Do you want me to, do  
21 you have a certain (indiscernible, possibly "PM-0")  
22 telephone number I can call back?

23 TERRY REIS: Yes, can you call back on (301)  
24 816-5419.

25 JACK FOSTER: Okay, say that again, (301)

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816-5409?

TERRY REIS: 5419.

JACK FOSTER: 5419. Okay, I'll call you  
back in about ten seconds.

TERRY REIS: All right. Thank you.

JACK FOSTER: Okay. Bye-bye.

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: Hello, Anthony speaking.

Can I help you?

KATHRYN BROCK: Yes, please. This is Kathy Brock calling from the NRC Operations Center. May I be connected with the NIT please?

MALE PARTICIPANT: Kathy, what was your last name again?

KATHRYN BROCK: B-R-O-C-K.

MALE PARTICIPANT: B-R-O-C-K, and you're with which office?

KATHRYN BROCK: NRC, Nuclear Regulatory.

MALE PARTICIPANT: NRC.

KATHRYN BROCK: Yes.

MALE PARTICIPANT: Okay. Hold on one second.

KATHRYN BROCK: Thank you.

MALE PARTICIPANT: Okay, you're connected.

KATHRYN BROCK: Thank you.

MAJOR DUNLAP (phonetic): This is Major Dunlap from NIT Ops, how may I help you ma'am?

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1 KATHRYN BROCK: Oh, hey, Kathy Brock from  
2 NRC. I was calling, I think I wanted to talk with Dave  
3 Young about the AMS, the aerial data that we received  
4 in an email. Can you help me with that?

5 MAJOR DUNLAP: Yes. I can help you.

6 KATHRYN BROCK: Okay. So in the email we  
7 got it said, it provided (b)(5) and then  
8 said that "an explanatory slide would follow." And it  
9 seemed to indicate that they were sending raw data and  
10 so we were wondering is there actual data to come with  
11 it or is it just (b)(5)

12 MAJOR DUNLAP: Just a moment, let me check.

13 KATHRYN BROCK: Okay.

14 DEAN KRATZENBERG: Hi, this is Dean  
15 Kratzenberg.

16 KATHRYN BROCK: Hey, Dean. Kathy Brock from  
17 NRC.

18 DEAN KRATZENBERG: Hi, Kathy. I was the  
19 one that asked to have that email sent to you.

20 KATHRYN BROCK: Oh, thanks, appreciate it.

21 DEAN KRATZENBERG: So, okay.

22 KATHRYN BROCK: It's a raw data?

23 DEAN KRATZENBERG: The raw data is still  
24 tied up into as we're doing some of the other products  
25 on it and there's a request really not to release the

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1 raw data because it hasn't been completed validated.

2 But what I'd like to ask is what are trying  
3 to get out of it because we can have the scientist put  
4 into their queue a very specific product that you might  
5 be looking for?

6 KATHRYN BROCK: Okay. I can ask our guys  
7 that, too. I think we just wanted to see it.

8 DEAN KRATZENBERG: Yes, we can produce  
9 anything, any contours, any mapping, anything you would  
10 like, but is if, I think DOE wants to maintain control  
11 of the original data because it's been changing and  
12 updating regularly.

13 And because if we send you the file now in  
14 about a half an hour that file's going to be wrong because  
15 it's still being validated. Does that make sense?

16 KATHRYN BROCK: So you're not going to share  
17 with NRC at all?

18 DEAN KRATZENBERG: Not the raw data just  
19 yet. Not until it gets approved, until it gets approved  
20 out at DOE Headquarters.

21 KATHRYN BROCK: Do you know what other plots  
22 you can do?

23 DEAN KRATZENBERG: Anything you want.

24 KATHRYN BROCK: What do you mean?

25 DEAN KRATZENBERG: You know, I was talking

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1 to the Program Manager a couple minutes ago --

2 KATHRYN BROCK: Yes.

3 DEAN KRATZENBERG: -- and she said, you know,  
4 it really, because this helps them produce better things,  
5 too. But, yes, any, you know, not what plots you want,  
6 but what information are you trying to convey so that  
7 we can get that correct for you.

8 KATHRYN BROCK: So was it, were measurements  
9 only taken at 1000 meters --

10 DEAN KRATZENBERG: I don't know that. I'd  
11 have to ask that.

12 KATHRYN BROCK: -- of the (indiscernible)  
13 ground?

14 DEAN KRATZENBERG: Hold on a sec, let me  
15 ask. I can get that information for you. I don't have  
16 that one, I'm sorry.

17 KATHRYN BROCK: Okay. Then maybe what I'll  
18 do is I'll come up with a list of question we might have  
19 --

20 DEAN KRATZENBERG: That would be great.

21 KATHRYN BROCK: -- and, okay. So there was  
22 supposed to be an explanatory slide that follows?

23 DEAN KRATZENBERG: Yes. Yes, that's one  
24 of the reasons why the data hasn't been released yet,  
25 is because we're trying to get that done, you know.

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1 KATHRYN BROCK: All right.

2 DEAN KRATZENBERG: I'm sorry.

3 KATHRYN BROCK: Oh, my Director wants to  
4 talk to you, hang on.

5 DEAN KRATZENBERG: Okay.

6 CINDY JONES: Hi, Dean. This is Cindy Jones.  
7 How are you?

8 DEAN KRATZENBERG: Hi, Cindy. This is Dean  
9 Kratzenberg.

10 CINDY JONES: Good. Say what we're trying  
11 to do is we have your product which is the two figures,  
12 but it's not in enough detail that we can overlay it  
13 on some other survey meter instrument readings that we  
14 have --

15 DEAN KRATZENBERG: Right.

16 CINDY JONES: -- from Japan, and we're trying  
17 to see if they correlate and the Chairman's asked us  
18 to do this --

19 DEAN KRATZENBERG: Okay.

20 CINDY JONES: -- but we can't do it with  
21 the map that you've sent us.

22 DEAN KRATZENBERG: Right. Because the map  
23 --

24 CINDY JONES: It indicated that further data  
25 was forthcoming and we just have not received anything.

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1 DEAN KRATZENBERG: Yes, ma'am. That was  
2 what I was trying to convey is that right now we provided  
3 you an initial, you know, through, you know, the NRC  
4 --

5 CINDY JONES: Right.

6 DEAN KRATZENBERG: -- or what I call the,  
7 you know, the core.

8 CINDY JONES: Right.

9 DEAN KRATZENBERG: You know, just a look  
10 of it, you know, before it gets validated and released.  
11 Yes, there is further information coming. Yes, shape  
12 of, all that kind of stuff, but --

13 CINDY JONES: And that's still today then?

14 DEAN KRATZENBERG: -- it has not yet been  
15 --

16 CINDY JONES: Oh, okay.

17 DEAN KRATZENBERG: It hasn't been released  
18 yet, and that's what we're working on right now.

19 CINDY JONES: Okay. And that's today  
20 sometime?

21 DEAN KRATZENBERG: Yes, I hope, you know.  
22 Yes, today definitely. I want to give you an hour,  
23 but I just can't because they're all --

24 CINDY JONES: Well that's okay.

25 DEAN KRATZENBERG: -- tied up in different

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1 conferences right now.

2 CINDY JONES: I appreciate that.

3 DEAN KRATZENBERG: We're working on it right  
4 now.

5 CINDY JONES: Can you at least confirm that  
6 those measurements that are on the those two diagrams  
7 are at ground level?

8 DEAN KRATZENBERG: What's the measurements  
9 on the (indiscernible) AMS plots? Are they at ground  
10 level?

11 They're interpolated down to one meter.

12 CINDY JONES: Down to one meter, perfect.

13 DEAN KRATZENBERG: Yes, ma'am.

14 CINDY JONES: We'll write that on there.

15 DEAN KRATZENBERG: Okay.

16 CINDY JONES: Or maybe, you know, you might  
17 want to just add it to it next time because a lot of  
18 people are asking.

19 DEAN KRATZENBERG: Well, again, we just kind  
20 of gave you --

21 CINDY JONES: Well no, no I --

22 DEAN KRATZENBERG: -- the thick, hey this  
23 is what we got. We're trying to put those into the  
24 ancillary, that is in the explanation slides.

25 CINDY JONES: No problem.

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1 DEAN KRATZENBERG: It's just that hasn't  
2 been released yet. We're trying to get it out.

3 CINDY JONES: No, we appreciate the early  
4 heads up.

5 DEAN KRATZENBERG: Okay.

6 CINDY JONES: Thank you very much.

7 DEAN KRATZENBERG: All right. Thank you.

8 CINDY JONES: Okay. Bye-bye.

9 DEAN KRATZENBERG: Okay. Bye.

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: Jostek (phonetic), can I help you?

KATHRYN BROCK: Hi. This is Kathy Brock from the NRC Operations Center. Can I please be patched to the NIT.

MALE PARTICIPANT: Yes, Kathy.

KATHRYN BROCK: Thank you.

MALE PARTICIPANT: Kathy?

KATHRYN BROCK: Yes.

MALE PARTICIPANT: David's on the line, go ahead please.

KATHRYN BROCK: Thank you.

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

KATHRYN BROCK: Okay. How are you?

DAVE YOUNG: Doing good.

KATHRYN BROCK: Good. Thank you for the email. I did get it. However, it doesn't have what we're looking for in it.

DAVE YOUNG: Okay.

KATHRYN BROCK: So --

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1 DAVE YOUNG: We'll see what we can do. I  
2 can't promise anything. I don't know --

3 KATHRYN BROCK: You know what I'm --

4 DAVE YOUNG: -- I purposely --

5 KATHRYN BROCK: -- looking for though,  
6 right?

7 DAVE YOUNG: I think, because one of our,  
8 our scientist got a call from a Johnson (phonetic).

9 KATHRYN BROCK: Johnson?

10 DAVE YOUNG: I don't know who --

11 KATHRYN BROCK: I don't know who that is.

12 DAVE YOUNG: And we know what you're looking  
13 for.

14 KATHRYN BROCK: All right.

15 DAVE YOUNG: (b)(5)

16 (b)(5)

17  
18 KATHRYN BROCK: Okay. So if I were to then  
19 get my leadership to talk at their level, who do they  
20 need to talk with?

21 DAVE YOUNG: No, I'll just ask my leadership.  
22 It's, I just got to find out. So, because I got to  
23 find out. Can you just tell me what it is again? Is  
24 it the dose from, was it in California or somewhere that  
25 --

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1 KATHRYN BROCK: Yes, since location,  
2 Southern Alaska, Hawaii, Midway, California, Oregon,  
3 Washington, surface arrival, NRC hour, or sorry, 96-hour  
4 projected dose --

5 DAVE YOUNG: For the (indiscernible)?

6 KATHRYN BROCK: -- and one year child thyroid  
7 dose.

8 DAVE YOUNG: All right. Okay. I'll ask and  
9 then I'll see if I can get it to you. I apologize.

10 KATHRYN BROCK: Okay. So is the problem  
11 that you're not sure if you can share it or if you're  
12 not sure if it's done?

13 DAVE YOUNG: I know we sent one out last  
14 night, correct? And I know --

15 KATHRYN BROCK: Well you must have because  
16 I'm looking at it.

17 DAVE YOUNG: Yes.

18 KATHRYN BROCK: I'm looking at --

19 DAVE YOUNG: (Indiscernible) and current  
20 --

21 KATHRYN BROCK: -- Page 15.

22 DAVE YOUNG: Right. Right. But it's not  
23 in the current Sitrep.

24 KATHRYN BROCK: Yes. It's not in what you  
25 just sent me.

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1 DAVE YOUNG: Right. So I will ask and, I  
2 don't know. I'll ask and see what we have and then see  
3 what we can get to you.

4 KATHRYN BROCK: Thank you.

5 DAVE YOUNG: Okay. All right. Thanks.

6 KATHRYN BROCK: Okay. Bye.

7 DAVE YOUNG: Bye.  
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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team.

KATHY GIBSON (phonetic): Hi. Is Kathy Brock there?

KATHRYN BROCK: This is she.

KATHY GIBSON: Hi, Kathy. Kathy Gibson.

KATHRYN BROCK: Oh. I was just responding to an email from you, (indiscernible).

KATHY GIBSON: Okay. So, okay. Why?

KATHRYN BROCK: Huh?

KATHY GIBSON: Why?

KATHRYN BROCK: They think that it's too complicated, confusing. They don't want two different things coming out of the NRC at once.

KATHY GIBSON: Okay. Well we weren't going to issue it to anybody except internally.

KATHRYN BROCK: Well, okay.

KATHY GIBSON: But we've got the, you know, we have the MAX (phonetic) guy who was on another assignment, you know, being flown back to Sandia to do this work

(b)(5)

KATHRYN BROCK: There's --

KATHY GIBSON: You know, Charlie (phonetic)

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1 and Jason (phonetic) are getting called (b)(5)

2 (b)(5)

3 KATHRYN BROCK: (b)(5)

4 KATHY GIBSON: So, well I talked to Brian  
5 Sheron this morning and what we'd like to do is establish  
6 a single point of contact between us and the Op Center.

7 KATHRYN BROCK: Okay.

8 KATHY GIBSON: And that will be Richard Lee.

9 KATHRYN BROCK: Richard, who's Richard Lee?

10 KATHY GIBSON: He's a Branch Chief, source  
11 term and field branch here in Research.

12 KATHRYN BROCK: Okay. So Richard Lee is,  
13 so if --

14 MALE PARTICIPANT: (Indiscernible) or Lee?

15 KATHRYN BROCK: Lee, L-E-E.

16 MALE PARTICIPANT: I don't know  
17 (indiscernible).

18 KATHY GIBSON: Yes.

19 KATHRYN BROCK: Okay.

20 KATHY GIBSON: I'll send you an email. Now  
21 is there somebody higher than you that I could talk to?

22 KATHRYN BROCK: Well --

23 KATHY GIBSON: Should I talk to Brian  
24 McDermott or?

25 KATHRYN BROCK: Yes. I can, if you want

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1 to get patched into the ET we can get the HOOs to do  
2 that for you. Because Cindy's our Director right now,  
3 Cindy Jones, so she's been in a briefing now in the ET.

4 KATHY GIBSON: Well let me ask you this.  
5 We have, we're trying to understand the press release  
6 that went out that had the two RASCAL runs --

7 KATHRYN BROCK: Yes, this one.

8 KATHY GIBSON: -- and then we got information

9 (b)(5)

10  
11 KATHRYN BROCK: Yes. I just put you on  
12 speaker so Bruce Watson could listen in. So, okay. So  
13 in regards to your question about (b)(5)

14 (b)(5)

15 KATHY GIBSON: Okay. Wait a minute. Can  
16 I call you back or have you call. We have a bunch of  
17 people in this office and they probably should all hear  
18 this.

19 KATHRYN BROCK: Sure.

20 KATHY GIBSON: So we can have this, and if  
21 something comes up that you need to hang up just let  
22 us know and we can resume this at a more convenient time.

23 KATHRYN BROCK: Sure. What's your number?

24 KATHY GIBSON: What's your number?

25 MALE PARTICIPANT: 251 --

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KATHY GIBSON: 251 --

MALE PARTICIPANT: -- 7526.

KATHY GIBSON: -- 7526.

KATHRYN BROCK: All right. Give us ten

seconds.

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Operations Center.

MALE PARTICIPANT: Yes, Jason Kozal for you guys. I'll connect him in.

MALE PARTICIPANT: Thank you, (indiscernible, possibly "honey").

JASON KOZAL: Hello?

KATHRYN BROCK: Hello.

JASON KOZAL: Hello, it's Jason Kozal. Who's this.

KATHRYN BROCK: Kathy. How you doing.

JASON KOZAL: Kathy?

KATHRYN BROCK: Yes.

JEFF KOWALCZIK: Hey, I got a question for you. The folks down here, part of the folks we have are the USAR Teams, the Urban Search and Rescue Teams, you know, they got guys out of Fairfax out of L.A. County that are out there doing the search and rescue ops.

KATHRYN BROCK: Yes.

JASON KOZAL: Okay. They're North of the plant, about 110 miles North and I can send you the details. The original plan was they were getting ready to (indiscernible, possibly "come home") today, go North to Misawa Air Force Base and then leave tomorrow, okay.

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1 KATHRYN BROCK: Okay.

2 JASON KOZAL: There has been some discussion  
3 at a very high level that for the optics of the situation,  
4 I guess to show that the U.S. is serious about helping  
5 the Japanese with their issues, of keeping those guys  
6 on Onafawa (phonetic), I say it's called Onafawa, I'll  
7 get you the (indiscernible), an extra day.

8 KATHRYN BROCK: Keeping them? Are you  
9 saying, where are they right now, I'm sorry?

10 JASON KOZAL: I'm sorry. There about 110  
11 miles North of the site.

12 KATHRYN BROCK: Right now, and they're  
13 talking about moving --

14 JASON KOZAL: And moving further North to  
15 the Air Force Base to demobilize.

16 KATHRYN BROCK: Okay.

17 JASON KOZAL: To get out of the Country,  
18 and the question was asked by the Director here to us  
19 was if, you know, based on the current situation at the  
20 plant and it's something more or if things were to degrade  
21 further, what would be the risk to those guys that far  
22 away?

23 Is there any increased risk? Would there  
24 be a chance of them getting really any type of significant  
25 dose at all?

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1 And by any significant, I'm not talking  
2 somatic (phonetic) effect or determinate (indiscernible)  
3 effect dose, I'm talking, you know, they get, all of  
4 a sudden they've got 15 millirem and, you know, we were  
5 going to pull them off the day before and they don't  
6 have anything.

7 KATHRYN BROCK: All right. Let me, I'm going  
8 to get back to you.

9 JASON KOZAL: Yes, this is a true what if  
10 question, but they're trying to, they don't know if,  
11 yes, they're just trying to make a decision and the USAR  
12 Teams and want to do what's right for those guys.

13 KATHRYN BROCK: So let me make sure I  
14 understand. Right now they're a hundred or so miles  
15 away --

16 JASON KOZAL: Yes, it's about 110.

17 KATHRYN BROCK: -- and where, how many miles  
18 away would they be going?

19 JASON KOZAL: They'd be going, I think it's  
20 about 225 miles away.

21 KATHRYN BROCK: So wait, so they're going  
22 200 miles away? So then there's no --

23 JASON KOZAL: No. They're not going  
24 anywhere yet. They are going to operate one more day  
25 110 miles away. The original plan was to have --

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1 KATHRYN BROCK: Well I think that they're  
2 fine because we aren't recommending evacuation for more  
3 than 50 miles.

4 JASON KOZAL: Right. So what we're saying  
5 is regardless of --

6 KATHRYN BROCK: Okay.

7 JASON KOZAL: -- what happens at the plant  
8 --

9 KATHRYN BROCK: Okay.

10 JASON KOZAL: -- in the next day or so that  
11 those guys are going to be fine at the 50 miles. Even,  
12 regardless of how hard the wind blows, if they had some  
13 freak type of wind shift or anything along those lines.

14 KATHRYN BROCK: All right. I'm going to  
15 --

16 JASON KOZAL: It's you I'm asking, it's not,  
17 this is completely theoretical and --

18 KATHRYN BROCK: Yes.

19 JASON KOZAL: -- you know, it's just a matter  
20 of them deciding what they want to do with these USAR  
21 guys because they're not, I mean at this point it's been  
22 over almost a week and they're really not, you know,  
23 doing any much more recovery.

24 KATHRYN BROCK: Yes. Let me get back to  
25 you, and remind me your phone number.

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JASON KOZAL: Yes, you bet. Call me at

(b)(6)

(b)(6)

KATHRYN BROCK: Okay.

JASON KOZAL: Thanks, Kathy.

KATHRYN BROCK: Bye.

JASON KOZAL: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 DAVE YOUNG: Hi. This is Dave Young from  
5 DOE. Is there a DOE (indiscernible) over there?

6 KATHRYN BROCK: Yes.

7 DAVE YOUNG: (Indiscernible)? Can you  
8 patch me to him, please?

9 KATHRYN BROCK: Actually, I can't. Can I  
10 have him call you back. I'm on another conference call.  
11 So you just want to talk to him?

12 DAVE YOUNG: Are you --

13 KATHRYN BROCK: This is Kathy.

14 DAVE YOUNG: -- on the conference call to  
15 -- oh, hey, Kathy. It's Dave Young -- with the coronation  
16 team?

17 KATHRYN BROCK: I don't know what they are,  
18 it's the White House?

19 DAVE YOUNG: I don't know.

20 KATHRYN BROCK: I don't know, there's like  
21 a jillion calls at once.

22 DAVE YOUNG: I know. I know.  
23 (Indiscernible) stuff, too. All right, thank you very  
24 much. I'll figure it out and thank you.

25 KATHRYN BROCK: Okay, great.

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DAVE YOUNG: Bye.

KATHRYN BROCK: Bye.

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(CONFERENCE CALL INITIATED)

OPERATOR: Your call has been forwarded to an automated voice messaging system. (b)(6)

is not available. At the tone please record your message.

When you finish recording you may hang up or press 1 for more options.

KATHRYN BROCK: Mike, Kathy Brock calling.

We are on this call with the White House (b)(5)

(b)(5)

(b)(5)

(b)(5)

okay? Thank you. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures.

4 MICHAEL DUDEK: Hi, is Kathryn Brock there?

5 KATHRYN BROCK: This is she.

6 MICHAEL DUDEK: Hi, Kathryn. This is  
7 Michael Dudek.

8 KATHRYN BROCK: Hey, hey. How you doing?

9 MICHAEL DUDEK: Hey, I just referred that  
10 to you as an FYI. I mean we didn't necessarily, I mean  
11 --

12 KATHRYN BROCK: Oh, okay.

13 MICHAEL DUDEK: Just because I sent it to  
14 you, didn't mean you had to tie on. I just thought if  
15 it was worthwhile and they're discussing something that  
16 you guys want to be involved in --

17 KATHRYN BROCK: Oh, all right. No.

18 MICHAEL DUDEK: -- then you guys could be  
19 a valuable asset. I mean you guys would be the right  
20 people to talk to that --

21 KATHRYN BROCK: Ok, good. We finally hung  
22 up. (b)(5)

23 MICHAEL DUDEK: I didn't mean that you  
24 actually had to.

25 KATHRYN BROCK: Okay. I thought you, we're

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1 just taking all of the requests for phone calls. We  
2 were trying to accommodate them, so, all right. Thank  
3 you.

4 MICHAEL DUDEK: I tried to call in and I  
5 couldn't get on. The bridge was blocked because it said  
6 maximum number of participants.

7 KATHRYN BROCK: Okay. Well there's one  
8 available now if you want.

9 MICHAEL DUDEK: Well I sent her an email  
10 and said to please send me, I couldn't get on, send me  
11 the actions that resulted and if the NRC can do anything  
12 to help just let us know.

13 KATHRYN BROCK: All right. Thanks.

14 MICHAEL DUDEK: All right. Bye.

15 KATHRYN BROCK: Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 DAVE YOUNG: Hi. This is Dave Young from  
5 DOE.

6 KATHRYN BROCK: Hey, there.

7 DAVE YOUNG: Hi. Is this Kathy?

8 KATHRYN BROCK: It is.

9 DAVE YOUNG: Hi, Kathy.

10 KATHRYN BROCK: Hey.

11 DAVE YOUNG: I sent an email over a little  
12 bit earlier today, maybe like an hour ago requesting  
13 someone form the NRC participate on a CM bridge line  
14 call as directed by the White House.

15 KATHRYN BROCK: At what time?

16 DAVE YOUNG: Let me find it.

17 KATHRYN BROCK: I'm sorry, because I got  
18 a conference call in my other ear.

19 DAVE YOUNG: I know. I know. I think I hear  
20 John Nasstrom in the background. Is that him? Let's  
21 see, it was a reference to discussing the NARAC source  
22 term.

23 KATHRYN BROCK: Is that at 2:00?

24 DAVE YOUNG: Yes it is.

25 KATHRYN BROCK: Yes. We're planning on

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1 being, well we're hoping to be on that, but I think that's  
2 why they were trying to talk to those guys now because  
3 we have another call at 2:00.

4 DAVE YOUNG: I think the White House was  
5 going to be on that call that's why we got to do it at  
6 2:00.

7 KATHRYN BROCK: Okay. I'll convey that.

8 DAVE YOUNG: Okay. Can you reply back to  
9 us by email or give us a call here and let us know that  
10 someone will definitely be on there.

11 KATHRYN BROCK: I'll just tell you, somebody  
12 will definitely be on.

13 DAVE YOUNG: Okay. Thank you very much.

14 KATHRYN BROCK: Okay.

15 DAVE YOUNG: All right. Bye.

16 KATHRYN BROCK: Bye.  
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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team.

BILL SMITH: Hi. This is Bill Smith at the Bettis Laboratory in Pittsburgh. I have a question about the RASCAL source term files that you posted on the NARAC web.

The last one that got posted there, the PDF said that there were four scenarios and we see a source term for only one of them and I was wondering if you could get us the other three.

KATHRYN BROCK: All right. Let me, I'm writing this down. So your name's Bill Smith. You're from Bettis and you're looking at the last --

BILL SMITH: Yes.

KATHRYN BROCK: -- source term that was sent?

BILL SMITH: Yes. It's the one that was posted around 11:00 a.m. Eastern time.

KATHRYN BROCK: 11:00 today?

BILL SMITH: Yes, today.

KATHRYN BROCK: And so you don't have the, the whole thing didn't come through?

BILL SMITH: That's what it looks like, yes. There is two files there, PDF which was like a print out of an email which said that there were four scenarios

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1 and then --

2 KATHRYN BROCK: Yes.

3 BILL SMITH: -- and there was only one CSV  
4 file --

5 KATHRYN BROCK: Okay.

6 BILL SMITH: -- which was for the first  
7 scenario.

8 KATHRYN BROCK: All right. What's your  
9 email address?

10 BILL SMITH: It's irrelevant because I can't  
11 get the email here. We're --

12 KATHRYN BROCK: So how are you getting the  
13 info?

14 BILL SMITH: Well we're getting it through  
15 the NARAC web.

16 KATHRYN BROCK: How were we getting it to  
17 you?

18 BILL SMITH: Well somebody posts these files  
19 to the NARAC web and I --

20 KATHRYN BROCK: Okay.

21 BILL SMITH: -- and it probably gets, it's  
22 probably filed, but you're sending --

23 KATHRYN BROCK: All right. I'll ask the  
24 fellows where they're sending it to. So you're getting  
25 it from the NARAC web?

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1 BILL SMITH: Yes.

2 KATHRYN BROCK: Did you call and ask them  
3 if they --

4 BILL SMITH: Yes.

5 KATHRYN BROCK: -- could redo it and they  
6 said that's all they got?

7 BILL SMITH: Yes, they said to call you.

8 KATHRYN BROCK: So I've got to get it then  
9 back to NARAC, resend to NARAC.

10 BILL SMITH: Well I'm not, yes --

11 KATHRYN BROCK: Because if, I mean I'd be  
12 happy to help get it to you, but is there anyway for  
13 you to receive it other than the NARAC website?

14 BILL SMITH: Well we do have a separate  
15 unclassified internet access system here which, where  
16 we can get email from --

17 KATHRYN BROCK: All right. Well why don't  
18 I just send it back to NARAC.

19 BILL SMITH: Okay.

20 KATHRYN BROCK: What's your phone number?

21 BILL SMITH: My phone number is (412)  
22 476-7332.

23 KATHRYN BROCK: All right. I'll see if we  
24 can resolve it for you.

25 BILL SMITH: Okay.

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KATHRYN BROCK: All right.

BILL SMITH: Thank you.

KATHRYN BROCK: Thanks.

BILL SMITH: Okay, bye.

KATHRYN BROCK: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

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

6 MALE PARTICIPANT: Good afternoon, this is  
7 Kevin.

8 KATHRYN BROCK: Kevin, hi. This is Kathy  
9 Brock from the NRC Operations Center. We're hoping to  
10 get patched to the NIT.

11 MALE PARTICIPANT: Yes, standby.

12 KATHRYN BROCK: Thanks.

13 MALE PARTICIPANT: Go ahead, you're  
14 connected with the NIT.

15 MAJOR DUNLAP: This is Major Dunlap, go ahead,  
16 sir.

17 KATHRYN BROCK: Hey there. This is Kathy  
18 Brock from NRC Operations Center. We were hoping to  
19 get a hold of Dave Bowman or Dave Hoagland.

20 MAJOR DUNLAP: Standby.

21 KATHRYN BROCK: Thanks.

22 MAJOR DUNLAP: Going to be about a minute.  
23 Please hold on.

24 DAVE HOAGLAND: This is Dave.

25 KATHRYN BROCK: Dave, is this Dave Bowman?

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1 DAVE HOAGLAND: It's Dave Hoagland, who's  
2 this?

3 KATHRYN BROCK: Oh, hi. This is Kathy Brock  
4 and John Tappert from the NRC Operations Center and I'm  
5 sorry for the background noise. We just are switching  
6 shifts.

7 But the reason for my call is because I've  
8 been working with the, oh, and I'm forgetting his name,  
9 the DOE representative here, as well as talking to DOE  
10 representatives with you guys about getting the NARAC  
11 runs that we've, that you had with us or --

12 DAVE HOAGLAND: Yes.

13 KATHRYN BROCK: -- that you've had for awhile.  
14 And so we just wanted to check on that.

15 DAVE HOAGLAND: Okay. Which is your latest?

16 KATHRYN BROCK: We haven't received anything  
17 in, I don't know, 40 hours, 50 hours.

18 DAVE HOAGLAND: Standby. Kathy?

19 KATHRYN BROCK: Yes.

20 DAVE HOAGLAND: Yes, this is Dave Hoagland.  
21 So my understanding is that that had been, there had  
22 been access granted for you to that plot, but we're going  
23 to kick that up a step further and direct it by email  
24 into your inbox.

25 KATHRYN BROCK: That we --

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1 DAVE HOAGLAND: So I apologize for that delay,  
2 understand how it is in the Op Center and --

3 KATHRYN BROCK: Oh, yes.

4 DAVE HOAGLAND: -- there were, so we're going  
5 to get that to your main inbox we have here. Standby,  
6 I'd like to confirm with you that we have the right Op  
7 Center inbox.

8 KATHRYN BROCK: Okay. It is --

9 DAVE HOAGLAND: Is it --

10 KATHRYN BROCK: Go ahead.

11 DAVE HOAGLAND: -- P-M-T-1-2 dot H-O-C dot  
12 N-R-C dot gov?

13 KATHRYN BROCK: You have one too many dots.  
14 It's P-M-T-12 dot H-O-C at N-R-C dot gov.

15 DAVE HOAGLAND: Yes, okay. I think that's  
16 what he said.

17 KATHRYN BROCK: Okay.

18 DAVE HOAGLAND: All right. It's going to  
19 be launched in the next two minutes.

20 KATHRYN BROCK: Okay.

21 DAVE HOAGLAND: And let us know if you do  
22 not receive it.

23 KATHRYN BROCK: Okay, good. And is there  
24 going to password information to get into that and all  
25 that kind of stuff?

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1 DAVE HOAGLAND: Is that password protected?  
2 For the email it's going to be in the clear. You shouldn't  
3 need a password to open the file.

4 KATHRYN BROCK: All right.

5 DAVE HOAGLAND: The site itself I think was,  
6 you know, required a password, but our process is going  
7 to be to distribute those plots as they become available  
8 to the distribution list that we've been authorized to  
9 send it to.

10 KATHRYN BROCK: All right. If we have  
11 questions, we call, but I bet we can figure it out.

12 DAVE HOAGLAND: Okay, yes, just give us a  
13 call back. Thank you so much.

14 KATHRYN BROCK: Bye-bye

15 DAVE HOAGLAND: Bye now.

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1  
2 (CONFERENCE CALL INITIATED)

3 CHRIS SMITH: Hello, this is Chris.

4 JOHN TAPPERT: This is John Tappert with  
5 the NRC.

6 CHRIS SMITH: Hi, John. How are you doing?

7 JOHN TAPPERT: Fair. How are you doing?

8 CHRIS SMITH: Good, good. What can I do  
9 for you?

10 JOHN TAPPERT: I was given your number and  
11 I guess we were asked to share some information regarding  
12 the source term that we're using for this Japanese event.

13 CHRIS SMITH: Right, right. Yes, so I just  
14 talked with Mark Thaggard in the (indiscernible, possibly  
15 "ULC") --

16 JOHN TAPPERT: Okay.

17 CHRIS SMITH: And he was going to try to  
18 line up the appropriate people to have a conference call  
19 with us. Are you tied in with him on that?

20 JOHN TAPPERT: Yes. Yes, we're in the  
21 Protective Measures Team in the Operations Center here.

22 CHRIS SMITH: Okay. All right. So --

23 JOHN TAPPERT: I haven't talked to Mark,  
24 so he's probably doing something in parallel, but --

25 CHRIS SMITH: Yes, that's what I'm worried

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1 about is that you guys are doing the same task and maybe  
2 we're, so I was going to have you coordinate with him.

3 JOHN TAPPERT: All right. You want me to  
4 just run down Mark and then we'll get back to you?

5 CHRIS SMITH: Yes. Do that and then what  
6 we were going to try to do is set up a time for tomorrow  
7 morning.

8 JOHN TAPPERT: Okay.

9 CHRIS SMITH: And try to do it then and that  
10 way we can get the right people from your side and the  
11 right people from my side to do a conference call and  
12 then get through it.

13 JOHN TAPPERT: Okay. If that meets your  
14 needs then that's what we'll do.

15 CHRIS SMITH: Yes, absolutely. That would  
16 be great.

17 JOHN TAPPERT: Okay.

18 CHRIS SMITH: All right. Thank you very  
19 much. I really appreciate it.

20 JOHN TAPPERT: Sure. Take care.

21 CHRIS SMITH: All right. Bye-bye.

22 JOHN TAPPERT: Bye.  
23  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Protective Measures Team.

DR. ROY PARKER: Bruce Watson, please.

MALE PARTICIPANT: Bruce has left for the day. Who am I speaking with?

DR. ROY PARKER: This is Dr. Roy Parker, FedEx Express. I was checking with Bruce more less on updates daily on the Japanese situation to see if there had been any changes that would concern us or anything. That was the reason I was calling.

MALE PARTICIPANT: Okay, can I have your number, Roy.

DR. ROY PARKER: Yes, (225) --

MALE PARTICIPANT: Okay.

DR. ROY PARKER: -- 924 --

MALE PARTICIPANT: Okay.

DR. ROY PARKER: -- 1473.

MALE PARTICIPANT: I'll speak with someone to see if there's been any updates. And you're just interested in if there's been any changes that you should be aware of?

DR. ROY PARKER: Yes. And basically I'm looking for such things as flights, we're affected by

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1 flights, (indiscernible, possibly "and our") people,  
2 outbound packages, things of that nature.

3 I've been keeping an eye on the radiation  
4 levels over there and (indiscernible) and, but I  
5 (indiscernible) is going to be is flights, flight patterns,  
6 contaminated packages, that sort of stuff.

7 MALE PARTICIPANT: Okay. We will get back  
8 to you.

9 DR. ROY PARKER: Thank you.

10 MALE PARTICIPANT: You're welcome. Bye.

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(CONFERENCE CALL INITIATED)

JOHN TAPPERT: NRC Operations Center,  
Protective Measures Team.

MALE PARTICIPANT: Transferring Mary Adams  
(phonetic), stay on the line please.

JOHN TAPPERT: Yes. This is John Tappert,  
Protective Measures Team.

MARY ADAMS: Hi. This is Mary Adams. I'm  
looking for Margaret Cervera. She's on duty there tonight,  
I think.

JOHN TAPPERT: Yes she is and she's coming  
to the phone.

MARY ADAMS: Thank you.

MARGARET CERVERA: Are you there? This is  
a recorded line.

MARY ADAMS: Yes, okay, then I won't say  
anything too goofy. Is there a car pool tonight?

MARGARET CERVERA: Oh, yes. You need to  
pick up Sheila, both ways.

MARY ADAMS: Okay. That's what I needed  
to know.

MARGARET CERVERA: Okay.

MARY ADAMS: All right.

MARGARET CERVERA: All right. Bye.

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1 MARY ADAMS: I don't have either of their  
2 phone numbers, but I'll show up.

3 MARGARET CERVERA: Oh, okay.

4 MARY ADAMS: Does she still

(b)(6)

5 (b)(6)

6 MARGARET CERVERA: Yes.

7 MARY ADAMS: Same place, okay.

8 MARGARET CERVERA: Okay.

9 MARY ADAMS: Love you, bye.

10 MARGARET CERVERA: Bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC Operations Center,  
Protective Measures Team.

PHIL VOGT: Yes, this is Phil Vogt. I got  
a call from Kevin Quinlan. I'm trying to reach him on  
this number because the number he provided is  
disconnected.

MALE PARTICIPANT: Kevin Quinlan?

PHIL VOGT: Yes, he's a meteorologist there.

MALE PARTICIPANT: Yes, just one moment.  
He'll be right here.

PHIL VOGT: All right. Thank you.

KEVIN QUINLAN: Hey, Phil, it's Kevin  
Quinlan.

PHIL VOGT: Hey, Kevin. Sorry I missed your  
call.

KEVIN QUINLAN: No, that's fine.

PHIL VOGT: What can I do for you?

KEVIN QUINLAN: I just had a question about  
the MET (phonetic) data.

PHIL VOGT: Okay.

KEVIN QUINLAN: I noticed one really big  
jump in the wind direction at 5z (phonetic) on the 18th.

PHIL VOGT: Hang on one second, I'll bring

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1 up the file.

2 KEVIN QUINLAN: Sure.

3 PHIL VOGT: Okay, 5z I see, oh, yes, 230,  
4 158, 256, yes, that is a pretty large swing.

5 KEVIN QUINLAN: Yes, and it's a pretty big  
6 deviation from the last run as well. Looks like there's  
7 a high pressure sitting almost right on top of it, kind  
8 of a double barreled high pressure there.

9 PHIL VOGT: It almost could be, it's the  
10 lowest wind speed almost in the entire time period, too.

11 KEVIN QUINLAN: Yes. It goes down to about  
12 4-1/2, 5 miles per hour. I just wanted to make sure  
13 that that was correct that --

14 PHIL VOGT: This is straight out of a model.

15 KEVIN QUINLAN: -- you guys are seeing that  
16 as well because that's going to raise some eyebrows.

17 PHIL VOGT: It's not something that we touch.  
18 It's straight out of the model.

19 KEVIN QUINLAN: Okay.

20 PHIL VOGT: So we do not touch that.

21 KEVIN QUINLAN: Okay. All right, because  
22 that's going to raise some eyebrows from --

23 PHIL VOGT: Yes.

24 KEVIN QUINLAN: -- everybody once they see  
25 it, switching back to onshore for an hour.

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1 PHIL VOGT: I think there's actually even  
2 going to me more later in the weekend.

3 KEVIN QUINLAN: Yes. Yes, but we were  
4 telling them it wasn't going to happen until the weekend.

5 PHIL VOGT: No, sorry about that. Tell them  
6 it's just light and variable in the morning then it could  
7 waft around a little bit. I mean that's basically the  
8 best I can say.

9 KEVIN QUINLAN: Yes. No, that's what I was  
10 going to tell them when they start having concerns about  
11 onshore wind, I'll tell them it's extremely light an  
12 it's --

13 PHIL VOGT: It's short and it won't go very  
14 far before it swings back.

15 KEVIN QUINLAN: Yes, light winds and not  
16 for very long.

17 PHIL VOGT: Correct.

18 KEVIN QUINLAN: Okay. Well I just wanted  
19 to double check with you guys.

20 PHIL VOGT: All right, you betcha, Kevin.

21 KEVIN QUINLAN: Thanks.

22 PHIL VOGT: Oh, quick, Kevin. You gave us  
23 the number 816-5401 to call back?

24 KEVIN QUINLAN: (Indiscernible) 5401, yes.

25 PHIL VOGT: It goes nowhere. It's

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1 disconnected.

2 KEVIN QUINLAN: Oh, really?

3 PHIL VOGT: Yes. So I'm not sure what we  
4 should use, but I tried calling you back on that and  
5 it was a disconnected phone number.

6 KEVIN QUINLAN: Okay. Well I'll see what  
7 I can do about that. I guess if you guys need to call  
8 me --

9 PHIL VOGT: I just called your main desk  
10 and asked for PMT, oh, actually where are you, are you  
11 at the PMT desk or are you at another location?

12 KEVIN QUINLAN: I'm near the PMT desk.

13 PHIL VOGT: Okay, yes. So we'll just keep  
14 asking for them if you can't get us a better number.

15 KEVIN QUINLAN: Okay. Sounds good.

16 PHIL VOGT: Talk to you later, Kevin.

17 KEVIN QUINLAN: Thanks.  
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1  
2 (CONFERENCE CALL INITIATED)

3 NIMA ASHKEBOUSSI: Headquarters Operation  
4 Center, Protective Measures Team.

5 TONY HUFFERT: Hello. This is Tony Huffert  
6 calling about the work schedule for the next few days  
7 --

8 NIMA ASHKEBOUSSI: Yes.

9 TONY HUFFERT: -- for the dose assessment  
10 analyst.

11 NIMA ASHKEBOUSSI: Hi, Tony. How are you  
12 doing? This is Nima.

13 TONY HUFFERT: Hey, Nima. Just interested  
14 in finding out what's open for me to come in and help  
15 out.

16 NIMA ASHKEBOUSSI: Okay. Let me grab the  
17 schedule. For the next few days we've double staffed  
18 for dose assessment, but for next week we have a lot  
19 of, we have at least one dose assessor for each shift,  
20 but we're probably looking to double up.

21 What days were you interested in?

22 TONY HUFFERT: Well I put in for Monday.  
23 I think at 3:00 to 8:00, I think I hand wrote my name  
24 in there yesterday.

25 NIMA ASHKEBOUSSI: The 21st?

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1 TONY HUFFERT: Yes.

2 NIMA ASHKEBOUSSI: Yes, 3:00 to 11:00, yes  
3 we have you on the schedule there.

4 TONY HUFFERT: Thank you.

5 NIMA ASHKEBOUSSI: And then also we have  
6 you on the 11:00 p.m. to 7:00 a.m. on the 22nd to the  
7 23rd?

8 TONY HUFFERT: Yes. And is there anything  
9 before then? Are there any open slots between now and  
10 Monday for just assessment?

11 NIMA ASHKEBOUSSI: Not completely open, but  
12 we have, we only have one person from the 18th, 11:00  
13 p.m. through the 20th, 3:00 to 11:00 p.m.

14 TONY HUFFERT: Okay. And the 18th, is that  
15 tomorrow night?

16 NIMA ASHKEBOUSSI: Eighteenth is tomorrow  
17 night, 11:00 p.m. to 7:00 a.m.

18 TONY HUFFERT: Okay. If you need someone  
19 to come in I'll be more than happy to fill that shift.

20 NIMA ASHKEBOUSSI: Okay.

21 TONY HUFFERT: Is the other person Margaret  
22 by any chance?

23 NIMA ASHKEBOUSSI: No. Duane Schmidt is  
24 on at that time.

25 TONY HUFFERT: Okay. So, yes, you can pencil

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1 me in for I guess that's tomorrow night?

2 NIMA ASHKEBOUSSI: That is tomorrow night,  
3 yes.

4 TONY HUFFERT: Okay. And I'll be happy to  
5 help out. And we'll just see if you still need a double  
6 shift on Saturday.

7 NIMA ASHKEBOUSSI: Okay. Sounds good.

8 TONY HUFFERT: Okay. So I'll see you  
9 tomorrow night at 11:00 so just put me in for that.

10 NIMA ASHKEBOUSSI: Yes, we have you down.

11 TONY HUFFERT: Okay. Thank you very much.

12 NIMA ASHKEBOUSSI: You're welcome. Bye.

13 TONY HUFFERT: Bye.  
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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: (Indiscernible, possibly NCIO), may I help you.

DONALD COOL: Good afternoon. This is Donald Cool with the Nuclear Regulatory Commission in our Operations Center. Through a series of emails we were asked to connect with Joe Klimavicz.

FEMALE PARTICIPANT: Okay. Can you hold on just a moment please.

DONALD COOL: Certainly.

FEMALE PARTICIPANT: I'm transferring you now.

DONALD COOL: Thank you.

JOE KLIMAVICZ: Hello. Joe Klimavicz.

DONALD COOL: Hi, Joe. My name is Donald Cool. I am currently the Protective Measures Team Director in the NRC Operations Center. This is a recorded line.

JOE KLIMAVICZ: Okay.

DONALD COOL: I'm following up on an email that I think --

JOE KLIMAVICZ: Yes.

DONALD COOL: -- you sent to our CIO Darren Ash, oh, what an hour ago?

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1 JOE KLIMAVICZ: Yes. I'm good friends with  
2 Darren and I thought I'd start with understanding what  
3 you all were putting out for the public. Dr. Lubchenco  
4 is the NO Administrator under Secretary of Commerce  
5 (indiscernible) and her staff had asked me to see if  
6 we could create a geospatial platform, backdrop, much  
7 like we did for Deepwater Horizon in the Gulf.

8 Relate it to, you know, create one for the  
9 Japan earthquake, tsunami and, you know, potential  
10 radiation issues and I wanted to understand first off  
11 what kinds of information people were putting out to  
12 the, you know, if anybody else had a geospatial backdrop  
13 and I worked with the, I'm the Senior Geospatial Official  
14 for the Department of Commerce so there's a senior, each  
15 Department, major Department, has a geospatial lead.

16 I don't know who the folks are in the NRC,  
17 but Darren said he's not aware of any geospatial platform  
18 for displaying the information. And he pointed me to  
19 your website where most of the information had been  
20 located.

21 And the other thing was he said there wasn't  
22 much data going out to the public in terms of, you know,  
23 data that either would have a geospatial component or  
24 just in general. So I don't want to, you know, create  
25 something that is either going to duplicative or is going

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1 to miss the mark, yet I'm trying to make my Administrator,  
2 you know, happy here.

3 It's also a, you know, we can do this pretty  
4 quickly, pretty easily if there is any value with that.

5 I'm aware of E-S-R-I, ESRI, is doing this for the Japanese  
6 Government, you know, in terms of radiation and so on.

7 I got a demo of that product.

8 But I was just actually trying to find out  
9 more information. The other thing I was asking Darren  
10 about was is there a website both either public or behind  
11 the firewalls where everybody in the Federal Government  
12 is supposed to post related data?

13 You know, and most of ours would be plume  
14 modeling, wind currents, weather, all that kind of stuff.

15 So I'll shut up here at this point and see if there's  
16 anything I could be of value (indiscernible, possibly  
17 "as you guys were").

18 DONALD COOL: Okay. Let me see, maybe it's  
19 easiest for me to work backwards through that list.  
20 I don't believe that there is a single website behind  
21 the firewall secure or otherwise --

22 JOE KLIMAVICZ: Okay.

23 DONALD COOL: -- trying to collect all of  
24 the U.S. data from the different agencies. We are sharing  
25 a lot of data back and forth with DOE and NNSA through

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1 their NARAC dose calculations assets and some things  
2 like that.

3 Those are being shared back and forth between  
4 the agencies, OUO, not further released --

5 JOE KLIMAVICZ: Okay.

6 DONALD COOL: -- not being posted to some  
7 type of behind the firewall website, maybe not a bad  
8 idea, but it's not happening.

9 JOE KLIMAVICZ: Okay.

10 DONALD COOL: We, now next I think probably  
11 the best thing to do is we, NRC here, have our focus  
12 associated with supporting the Ambassador in Japan and  
13 looking at the dose calculations and projections,  
14 protective action recommendations in fairly close, as  
15 in Japan.

16 JOE KLIMAVICZ: Right.

17 DONALD COOL: DOE, I believe through NNSA,  
18 and again I think probably using the NARAC resources  
19 is the group responsible for trying to do the projections  
20 of plume and distribution and concentrations of  
21 radioactive material that would eventually get to Hawaii,  
22 the Aleutians, West Coast, et cetera, depending on how  
23 the meteorology goes over time.

24 And so if there were some things that you  
25 were looking at and I would be guessing that it would

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1 be more related to the transpacific and assets here in  
2 the United States. It wouldn't be so much duplicative  
3 of what we were doing, but the things that DOE would  
4 be preparing and perhaps releasing.

5 We have been getting some information from  
6 them and some models. We know that there have been some  
7 NOAA updates that we've been getting, just printed form  
8 information with regard to air movement and things.

9 JOE KLIMAVICZ: Okay.

10 DONALD COOL: I can guess that it would be  
11 probably quite helpful to be able to tap into how you're  
12 viewing and seeing things. I'm looking right now at  
13 an OUO forecast that I think got put together by DTRA

14 --

15 JOE KLIMAVICZ: Well --

16 DONALD COOL: -- which is yet another  
17 component in the picture.

18 JOE KLIMAVICZ: Yes.

19 DONALD COOL: (b)(5)

20 (b)(5)

21  
22  
23 JOE KLIMAVICZ: (b)(5)

24 (b)(5)

25  
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DONALD COOL: Yes. So let me see if I can confirm with you, what you'd be looking at is probably not over Japan, but rather looking at transpacific movement and then impingements to U.S. assets, U.S. Territories, Hawaii, Alaska, West Coast, et cetera?

JOE KLIMAVICZ: Well it could work either way. I mean that's what we'd be primarily looking at is the movement of particles and everything else from Japan to the U.S., but we're still trying to cramp some of the U.S. Coastal areas that were hit by the tsunami.

But if it would make sense, I mean, what we did in Deepwater Horizon is we had a version of our geospatial tool behind the firewall (indiscernible, possibly "down")

(b)(5)

(b)(5)

(b)(5)

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1           So, I mean, I'm just, they told me to create  
2 this thing. I'm just trying to find out what everybody  
3 else is doing and if this would be a service to you that  
4 would be great. It's fairly easy for me to do, but I  
5 don't know, you know, what would be most helpful.

6           And it sounds like there's, I mean I've talked  
7 to a lot of different, I've talked to the White House,  
8 I've talked to DNI, I talked DHS, CPI (phonetic)  
9 (indiscernible). (b)(5)

10 (b)(5)

11  
12  
13  
14           DONALD COOL: Yes. I think it could be very  
15 useful. You're talking about a group of information  
16 that is not my lead, it's DOE and NNSAs lead, so I think  
17 it would be very nice to be able to have access to some  
18 of that behind the firewall.

19           But I think your next step is probably trying  
20 to talk to the DOE --

21           JOE KLIMAVICZ: Right.

22           DONALD COOL: -- folks with the start to,  
23 how they're putting together the information and what  
24 assets they have because certainly whatever you would  
25 try to assemble ought to be wrapping in what they're

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1 doing since they've got the lead for the actual  
2 presentations.

3 And, in fact, I think one of the things they're  
4 doing is setting up a call with the Governors in another  
5 half or so. So --

6 JOE KLIMAVICZ: Okay.

7 DONALD COOL: -- I'm not quite sure how to  
8 specifically advise you beyond that. I personally, from  
9 my position standpoint here, that would probably be useful  
10 to help us understand --

11 JOE KLIMAVICZ: Sure.

12 DONALD COOL: -- some of the predictions,  
13 some of the things that might eventually be released  
14 to support the messages that the Government wants to  
15 put out there.

16 But, without (indiscernible) --

17 JOE KLIMAVICZ: Yes.

18 DONALD COOL: (b)(5)

19 (b)(5)

20 JOE KLIMAVICZ: Well I talked to two Seniors  
21 over there in the DOE CO Shop (phonetic) today and they  
22 knew nothing at all about any of this stuff. So, you  
23 know, they've got the Information Management, they've  
24 got the geospatial component in that Shop.

25 I didn't talk to either the CO or the Deputy

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1 CO, both were away, out of the office today. I will  
2 follow up with them tomorrow morning because they were  
3 going to do some more homework to find out what they're  
4 doing.

5 But, you know, it doesn't appear that --

6 DONALD COOL: Yes, what I would suggest is  
7 try to get back with them. They may not even be connected  
8 with what's going on in some of the components downstream.

9 JOE KLIMAVICZ: Okay.

10 DONALD COOL: We do most of our interactions  
11 with DOEs, the acronym is NIT, it's I think it's the  
12 National, what's NITs name, the National Incident Team,  
13 or something like --

14 JOE KLIMAVICZ: Okay.

15 DONALD COOL: -- whom we interact with and  
16 the NARAC assets which is the dose calculation modeling  
17 assets that they're using report into that team center  
18 and so if the folks that you would normally talk to can  
19 connect down with their own assets that probably would  
20 help you sort out what they've got and haven't got.

21 JOE KLIMAVICZ: Okay. I will do that. So  
22 thank you very much and you've got my contact information  
23 if anything comes up or if you think I can be of assistance.

24 I'm going, well I'm going to continue trying to push  
25 and set this up.

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1           The question is, you know, behind the  
2 firewalls, is out there for the public, or is the two  
3 instantiations and then what data would go on either  
4 one, but so we're going to be back in touch, but --

5           DONALD COOL: That would be great.

6           JOE KLIMAVICZ: -- I appreciate you calling.

7           DONALD COOL: Thank you much.

8           JOE KLIMAVICZ: I appreciate you calling  
9 me back.

10          DONALD COOL: Okay.

11          JOE KLIMAVICZ: Okay. Thank you.

12          DONALD COOL: Okay. Bye-bye.

13          JOE KLIMAVICZ: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 JEFF KOWALCZIK: Hey, is this Kathy?

5 KATHRYN BROCK: Yes.

6 JEFF KOWALCZIK: Hey, it's Jeff Kowalczyk  
7 down at USAID.

8 KATHRYN BROCK: How you doing?

9 JEFF KOWALCZIK: Good. How are you?

10 KATHRYN BROCK: Eh, you know.

11 JEFF KOWALCZIK: Hey, we were on a  
12 inter-agency call just a minute ago and DOE spoke up  
13 and said they had numbers and I want to make sure you  
14 guys had those.

15 KATHRYN BROCK: You know what, I'm just  
16 coming on so I don't know --

17 JEFF KOWALCZIK: Okay.

18 KATHRYN BROCK: -- what numbers they're  
19 talking about. So DOE has numbers?

20 JEFF KOWALCZIK: Well they are reporting  
21 on, no details to the report yet, but they are reporting  
22 on numbers from their flyovers earlier today.

23 KATHRYN BROCK: Okay.

24 JEFF KOWALCZIK: So if you don't have them  
25 that's fine. I just wanted --

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1 KATHRYN BROCK: Do you have them?

2 JEFF KOWALCZIK: No, we don't. But they,  
3 and I don't know if they've done modeling, if they've  
4 done, run that through their computers or not, but Randy,  
5 I talked to Randy like three hours ago and he said they  
6 still didn't have them to him and he would let me know  
7 when they did get them.

8 KATHRYN BROCK: Thank you. Yes, I don't  
9 think we have them yet, but we can call the NIT and --

10 JEFF KOWALCZIK: Okay.

11 KATHRYN BROCK: -- get them.

12 JEFF KOWALCZIK: If they can, yes, just let,  
13 like I said DOE on this inter-agency was saying that  
14 they did have them so I was just going to try to follow  
15 up. So if --

16 KATHRYN BROCK: Thank you.

17 JEFF KOWALCZIK: -- you guys don't have them  
18 that's fine. We won't report from our standpoint because  
19 there is a prompt, or there is kind of a request for  
20 a report from us to, you know, what our analysis looks  
21 like so I'm assuming we don't have them now --

22 KATHRYN BROCK: All right so, no we don't  
23 have the numbers. So when we get the numbers they want  
24 to hear what we think about them?

25 JEFF KOWALCZIK: Yes.

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1 KATHRYN BROCK: All right.

2 JEFF KOWALCZIK: And to whatever that  
3 analysis looks like. And it's fine if it needs to be  
4 (indiscernible), so just to let you know. If you need  
5 anything else as far as that goes then let us know and  
6 we'll try to get it directly from the teams on the ground.

7 KATHRYN BROCK: So who's there now?

8 JEFF KOWALCZIK: Okay. I'm coming off shift  
9 in about 20 minutes, 30 minutes. I'll be here for probably  
10 another hour.

11 KATHRYN BROCK: All right.

12 JEFF KOWALCZIK: Michael Dudek and Jason  
13 Kozal will be on for the rest of the day.

14 KATHRYN BROCK: All right. I have Jason's  
15 phone number. What's Mike's phone number?

16 JEFF KOWALCZIK: One second, I'm going to  
17 put you on speaker phone while I look it up. Mike Dudek's  
18 number is (b)(6)

19 KATHRYN BROCK: Okay. Thank you.

20 JEFF KOWALCZIK: And they'll be on all day  
21 and they're looking for that as, you know, I mean yesterday  
22 as much as you guys are.

23 KATHRYN BROCK: Okay. Thanks.

24 JEFF KOWALCZIK: All right.

25 KATHRYN BROCK: Have a good night.

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JEFF KOWALCZIK: Okay. Thank you.

KATHRYN BROCK: You know what I mean. Okay.

JEFF KOWALCZIK: Yes, thanks. Bye.

KATHRYN BROCK: Bye.

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team.

HEADQUARTERS OPERATIONS OFFICER: Yes, this is Headquarters Operations Office on a recorded line. Are you guys expecting somebody from DOE, Mr. William Froh?

KATHRYN BROCK: I, well we're doing shift changeover so I don't know if we're expecting him or not.

HEADQUARTERS OPERATIONS OFFICER: Okay. Well he's here, but I need a point of contact or somebody to go retrieve him.

KATHRYN BROCK: Oh, he's a human. He's here.

HEADQUARTERS OPERATIONS OFFICER: Yes.

KATHRYN BROCK: Hang on. Are we expecting, he said his name is William Froh?

HEADQUARTERS OPERATIONS OFFICER: Froh, that's correct.

KATHRYN BROCK: William Froh. Can you please ask the liaison team? We think that's the right place.

HEADQUARTERS OPERATIONS OFFICER: Okay, thanks.

KATHRYN BROCK: Thank you.

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HEADQUARTERS OPERATIONS OFFICER: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: NRC Operations Center,  
4 Protective Measures Team.

5 BILL BEAL: Hi, this is Bill Beal calling  
6 from DOE NIT Office. I know we just bugged you guys  
7 to get on the bridge line call, but there was a further  
8 question that came up here, because NARAC is making some  
9 changes that they need, well they're making some  
10 assumptions once they get the source term from you guys  
11 --

12 MALE PARTICIPANT: Right.

13 BILL BEAL: -- and I don't know that that's  
14 getting communicated back to you guys to get your  
15 concurrence before they go and start running things.

16 MALE PARTICIPANT: No, I don't think so.

17 BILL BEAL: So what I'd like to do if you  
18 guys don't mind is call back into the bridge line and  
19 get these questions answered so we can get NARAC running  
20 a model soon that we believe you guys have concurrence  
21 on.

22 MALE PARTICIPANT: Okay. On the same line,  
23 same number we just had?

24 BILL BEAL: Yes, the (877) 326-1274.

25 MALE PARTICIPANT: Yes.

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1 BILL BEAL: Appreciate it.

2 MALE PARTICIPANT: Okay.

3 BILL BEAL: I tried to get the coordinator  
4 on there but I couldn't get the coordinator so --

5 MALE PARTICIPANT: Okay.

6 BILL BEAL: -- I thought I'd just give you  
7 a call.

8 MALE PARTICIPANT: All right. Great.

9 BILL BEAL: All right. I'll be on there  
10 in a second.

11 MALE PARTICIPANT: Good-bye.

12 BILL BEAL: Thanks.

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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: NRC Operations Center,  
4 Protective Measures Team.

5 JEANNE BIJON (phonetic): Hi. My name is  
6 Jeanne Bijon. I had sent an email and talked to somebody  
7 on the PMT team earlier today asking for support for  
8 a Commissioner Briefing on Monday.

9 MALE PARTICIPANT: Yes.

10 JEANNE BIJON: And I just wanted to confirm  
11 that somebody got my request and that they're working  
12 on it?

13 MALE PARTICIPANT: Yes.

14 JEANNE BIJON: Okay, great. Because I  
15 didn't get a confirmation email so I just wanted to make  
16 sure I sent it to the right people.

17 MALE PARTICIPANT: Okay. This is the  
18 talking points thing by 8:00 in the morning.

19 JEANNE BIJON: The talking, yes.

20 MALE PARTICIPANT: Yes.

21 JEANNE BIJON: Yes. Okay, great. Thank you  
22 so much.

23 MALE PARTICIPANT: And (indiscernible)  
24 going to be on the floor there, so --

25 JEANNE BIJON: Okay, great.

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MALE PARTICIPANT: Okay.  
JEANNE BIJON: Thank you.

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NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI  
PMT RAAD ASST DIRECTOR AUDIO FILES

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FRIDAY,  
MARCH 18, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: NRC Operations Center,  
this is a recorded line, may I help you?

PATRICIA HOLAHAN: Yes. This is Trish  
Holahan in the PMT. Can you connect me with Tony Vegel  
in Region IV please.

MALE PARTICIPANT: All right, Trish. Hold  
on for Tony Vegel. How do you spell that last name,  
please?

PATRICIA HOLAHAN: V-E-G-E-L.

MALE PARTICIPANT: Is it B or V?

PATRICIA HOLAHAN: V.

MALE PARTICIPANT: V.

PATRICIA HOLAHAN: V as in Victor. And his  
official name is Anton.

MALE PARTICIPANT: All right. Let's see  
here. Yes, my companion knew the name right away. He's  
making fun of me. Anton Vegel, all right. Let me see,  
do you think his office cell might be a good shot?

PATRICIA HOLAHAN: Yes.

MALE PARTICIPANT: I'll try that first then.

PATRICIA HOLAHAN: Okay, thanks.

TONY VEGEL: Hi, Trish.

PATRICIA HOLAHAN: Hi, Tony. How are you?

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1 TONY VEGEL: Oh, not too bad.

2 PATRICIA HOLAHAN: It seems forever since  
3 you were up here.

4 TONY VEGEL: Yes. Boy it's been busy the  
5 last week.

6 PATRICIA HOLAHAN: Oh, yes. I understand  
7 Vince talked to you about SONGS and Diablo, the doses  
8 that they detected in their air sampling?

9 TONY VEGEL: Yes, in fact I called those  
10 into the Headquarters Ops Office to the PMT team.

11 PATRICIA HOLAHAN: Okay, yes. Okay, so,  
12 yes. Now how often do they sample those?

13 TONY VEGEL: I don't know exactly how often,  
14 but I notice like it's periodic that they've run their  
15 air samplers and then after they run it for a period  
16 of time then they take the filter paper out and what  
17 (indiscernible, possibly "period") of density exactly  
18 I don't know.

19 PATRICIA HOLAHAN: Okay.

20 TONY VEGEL: But I think it's, it would take  
21 them about six hours or so to (indiscernible, possibly  
22 "turn") out of that thing.

23 PATRICIA HOLAHAN: Okay. Could you find  
24 out if they're going to sample them again today or tomorrow?

25 TONY VEGEL: Yes.

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1 PATRICIA HOLAHAN: And also have you heard  
2 anything from Columbia Generating Station?

3 TONY VEGEL: No. We gave the Resident  
4 Inspector the heads up --

5 PATRICIA HOLAHAN: Okay.

6 TONY VEGEL: -- at Columbia and then also  
7 at Palo Verde that in case they, just to give them a  
8 heads up that at Diablo and SONGS they had detected --

9 PATRICIA HOLAHAN: Okay.

10 TONY VEGEL: -- some iodine-131 and just  
11 to keep their ear to the ground.

12 PATRICIA HOLAHAN: Okay.

13 TONY VEGEL: And basically we also gave them  
14 the same guidance that we requested from Diablo and SONGS  
15 that if they get indications to give the IRC, the  
16 Headquarters Ops Office, a call and to connect with the  
17 PMT.

18 PATRICIA HOLAHAN: Okay. Okay, I'm in the  
19 PMT tonight.

20 TONY VEGEL: Oh, great.

21 PATRICIA HOLAHAN: Yes.

22 TONY VEGEL: So they should be keeping you  
23 informed about that.

24 PATRICIA HOLAHAN: Okay. All right. I just  
25 wanted to make sure that we had the most current information

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1 so, you know, because I was talking to the Chairman a  
2 little while ago and he wants to make sure his statements  
3 are accurate.

4 TONY VEGEL: Yes. Let me, I'll find out  
5 what the (indiscernible, possibly "period") density is  
6 or when their next sample is --

7 PATRICIA HOLAHAN: Okay.

8 TONY VEGEL: -- and get back to you on that.  
9 How's that?

10 PATRICIA HOLAHAN: Yes. You can call back  
11 through the HOO and they know I'm know I'm in the PMT.

12 TONY VEGEL: Okay. Will do.

13 PATRICIA HOLAHAN: Okay.

14 TONY VEGEL: Hey, hope to be talking to you  
15 shortly.

16 PATRICIA HOLAHAN: Yes. Okay. Bye.

17 TONY VEGEL: Bye.  
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(CONFERENCE CALL INITIATED)

PATRICIA HOLAHAN: PMT, this is Trish Holahan.

MALE PARTICIPANT: Trish, I've got Tony Vegel on the other line, wants to speak with you guys.

PATRICIA HOLAHAN: Okay. Thank you very much.

MALE PARTICIPANT: All right. Connecting you now.

PATRICIA HOLAHAN: Okay. Hi, Tony.

TONY VEGEL: Hi, Trish. How are you?

PATRICIA HOLAHAN: Good.

TONY VEGEL: I got some information for you

--

PATRICIA HOLAHAN: Okay.

TONY VEGEL: -- sort of answered some of your questions.

PATRICIA HOLAHAN: Okay.

TONY VEGEL: This is specific to San Onofre.

PATRICIA HOLAHAN: Okay.

TONY VEGEL: And what they've done is they've modified their environmental sampling program.

PATRICIA HOLAHAN: Okay.

TONY VEGEL: Okay, which normally they, you

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1 know, they would've sent us off site and it would take  
2 two to three, you know, weeks to get the samples and  
3 the samples analysis read.

4 PATRICIA HOLAHAN: Okay.

5 TONY VEGEL: So what they've done. They've  
6 changed their (indiscernible, possibly "period") of  
7 density to the 12-hour (indiscernible, possibly "period")  
8 of density.

9 So basically they're taking samples at noon  
10 and midnight everyday.

11 PATRICIA HOLAHAN: Okay.

12 TONY VEGEL: Or two per day. So they're  
13 kind of changing their normal methodology just because  
14 of this event.

15 PATRICIA HOLAHAN: Okay. Now --

16 TONY VEGEL: (Indiscernible).

17 PATRICIA HOLAHAN: -- are they analyzing  
18 them on site or they still have to send them out?

19 TONY VEGEL: Yes. They're analyzing it on  
20 site.

21 PATRICIA HOLAHAN: Okay.

22 TONY VEGEL: What they, the first reading  
23 that they got they said that, you know, remember we reported  
24 that it could be possibly around 5 (indiscernible) <sup>-13</sup>?

25 PATRICIA HOLAHAN: Yes.

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1 TONY VEGEL: They're not so sure about that.  
2 They're saying now it was like 2 (indiscernible) <sup>-13</sup>.  
3 They're not sure because the last sample that they,  
4 which they took at midnight and then read, or let's see,  
5 yes, they took at midnight and then read this morning.

6 They said it could have been possibly  
7 cross-contaminated in fact because they did it on the  
8 Operating Unit side. They took it off the (indiscernible,  
9 possibly "turbanvec") --

10 PATRICIA HOLAHAN: Okay.

11 TONY VEGEL: -- of the Operating Unit. So  
12 what they're doing this time, they're reading this in  
13 the Unit 1 lab. Unit 1, you know, is completely gone,  
14 right.

15 PATRICIA HOLAHAN: Oh, okay.

16 TONY VEGEL: It's an industrial site now.  
17 So they're hoping to get a better analysis and  
18 (indiscernible), you know, of what their real, you know,  
19 activity is.

20 PATRICIA HOLAHAN: Okay.

21 TONY VEGEL: Because we're talking real low  
22 levels.

23 PATRICIA HOLAHAN: Yes.

24 TONY VEGEL: So they're taking it --

25 PATRICIA HOLAHAN: And there's only one?

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1 How many air sampling monitors do they have?

2 TONY VEGEL: This was only from one.

3 PATRICIA HOLAHAN: Okay.

4 TONY VEGEL: And they're hoping that they  
5 should be able to give you a call within probably about  
6 an hour or so.

7 PATRICIA HOLAHAN: What did you say?

8 TONY VEGEL: They should be able to give  
9 you a call within an hour or so --

10 PATRICIA HOLAHAN: Okay.

11 TONY VEGEL: -- with the --

12 PATRICIA HOLAHAN: Oh, with the other --

13 TONY VEGEL: -- results.

14 PATRICIA HOLAHAN: Okay.

15 TONY VEGEL: This will be the noon sample.

16 PATRICIA HOLAHAN: Okay.

17 TONY VEGEL: And that would give you a better,  
18 you know, a more accurate --

19 PATRICIA HOLAHAN: Okay.

20 TONY VEGEL: -- assessing of the activities.

21 PATRICIA HOLAHAN: Okay.

22 TONY VEGEL: And I've asked them  
23 specifically that no matter what the results, let's say  
24 if they don't monitor any activity of iodine-131 to call  
25 it in anyway --

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1 PATRICIA HOLAHAN: Okay.

2 TONY VEGEL: -- just to keep you appraised  
3 of it and the other thing, so they should be calling  
4 you within an hour. The other thing is if you want,  
5 I can give you the best point of contact at San Onofre.

6 PATRICIA HOLAHAN: Okay.

7 TONY VEGEL: The HP Supervisor, he's the  
8 actual, the point of contact and a lead for this modified  
9 sampling that they're doing.

10 PATRICIA HOLAHAN: Okay.

11 TONY VEGEL: So if you had any questions  
12 he probably could answer it. So his name is John Scott  
13 (phonetic).

14 PATRICIA HOLAHAN: Okay.

15 TONY VEGEL: And his phone number is (b)(6)

16 --

17 PATRICIA HOLAHAN: Okay.

18 TONY VEGEL: -- (b)(6)

19 PATRICIA HOLAHAN: Okay.

20 TONY VEGEL: Did you get that?

21 PATRICIA HOLAHAN: Yes. It's (b)(6)

22 (b)(6)

23 TONY VEGEL: That's correct.

24 PATRICIA HOLAHAN: Okay.

25 TONY VEGEL: So they should be giving you,

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1 you know, here within the next hour or so roughly --

2 PATRICIA HOLAHAN: Okay.

3 TONY VEGEL: -- their sample results --

4 PATRICIA HOLAHAN: Okay.

5 TONY VEGEL: -- from what they know. There  
6 is a possibility that what they may have recorded, it  
7 might not have been right this morning, because it could've  
8 been, actually they could be reading from their old stack  
9 if it's very, very low levels.

10 PATRICIA HOLAHAN: Yes.

11 TONY VEGEL: So that's a possibility, but  
12 they called it out from what they knew. But they're  
13 also checking with the California Health Environmental  
14 --

15 PATRICIA HOLAHAN: Okay.

16 TONY VEGEL: -- Group that also has a monitor  
17 outside the plant --

18 PATRICIA HOLAHAN: Okay.

19 TONY VEGEL: -- and thus far they've said  
20 that they have not detected anything.

21 PATRICIA HOLAHAN: Okay.

22 TONY VEGEL: This is the California  
23 Department of Health.

24 PATRICIA HOLAHAN: Oh, okay, yes.

25 TONY VEGEL: Okay, but the California

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1 Department of Health is probably doing the same thing,  
2 you know, sending it off to labs and there could be some  
3 delay time, but I'm not sure.

4 PATRICIA HOLAHAN: Yes. Now why did they  
5 sample it in-house this time?

6 TONY VEGEL: Well because they want to do  
7 it because it's a, they want to increase the (indiscernible,  
8 possibly "period") of density.

9 PATRICIA HOLAHAN: Okay.

10 TONY VEGEL: Is my understanding of that.

11 PATRICIA HOLAHAN: Okay. Because they --

12 TONY VEGEL: (Indiscernible).

13 PATRICIA HOLAHAN: -- were analyzing onsite  
14 before they found the contamination, right?

15 TONY VEGEL: Right.

16 PATRICIA HOLAHAN: Okay.

17 TONY VEGEL: But normally, you know, for  
18 the part of the environmental program they were  
19 (indiscernible) out to the lab so it would take some  
20 time to, you know, to get the results. But because of  
21 this, you know, the Japanese events, they want to go  
22 through more, I guess more frequent period of density.

23 PATRICIA HOLAHAN: Okay.

24 TONY VEGEL: And I guess that's their  
25 justification for that. That's what my understanding

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1 is.

2 PATRICIA HOLAHAN: Okay. All right. Okay,  
3 that's good. So and you didn't talk to Diablo, did you?

4 TONY VEGEL: No, I did not.

5 PATRICIA HOLAHAN: Okay.

6 TONY VEGEL: One thing, you know, for Diablo,  
7 if you re-email them, you know, their results that they  
8 had sent out and in that email there's I believe also  
9 a (indiscernible) of their HP Supervisor point of contact  
10 that they have over there, maybe you can touch base with.

11 PATRICIA HOLAHAN: Oh, okay.

12 TONY VEGEL: Then you can hear firsthand

13 --

14 PATRICIA HOLAHAN: Yes, okay.

15 TONY VEGEL: -- you know, maybe cut out the,  
16 you know, because I'm not an expert in this area and,  
17 you know, maybe you can try that.

18 PATRICIA HOLAHAN: Okay.

19 TONY VEGEL: Would that help?

20 PATRICIA HOLAHAN: Yes. Yes, I can look  
21 that up. Okay.

22 TONY VEGEL: Okay.

23 PATRICIA HOLAHAN: All right. Thank you  
24 very much.

25 TONY VEGEL: Hey, if you need anything else

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1 give me a call.

2 PATRICIA HOLAHAN: Okay. All right.

3 TONY VEGEL: Talk to you --

4 PATRICIA HOLAHAN: Have a good night.

5 TONY VEGEL: -- later.

6 PATRICIA HOLAHAN: Okay. Bye-bye.

7 TONY VEGEL: Bye.

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(CONFERENCE CALL INITIATED)

ARLON CROSS (phonetic): PMT, Arlon Cross.

MALE PARTICIPANT: Hey, Arlon. I'm transferring a licensee guy from Diablo Canyon.

ARLON CROSS: Okay. Hold on.

PATRICIA HOLAHAN: Hello. This is Trish Holahan.

MARK SOMERVILLE: Trish Holahan?

PATRICIA HOLAHAN: Yes.

MARK SOMERVILLE: This is Mark Somerville at Diablo Canyon Power Plant. How are you?

PATRICIA HOLAHAN: Good. How are you?

MARK SOMERVILLE: I'm doing fine. I'm just writing down your name. Is it H-O-L-L-O --

PATRICIA HOLAHAN: H-O-L-A-H-A-N.

MARK SOMERVILLE: Okay, I've got it. And --

PATRICIA HOLAHAN: And I'm the Director of the PMT tonight.

MARK SOMERVILLE: Well it's very nice to talk to you. I was told to or asked to give you a call.

At Diablo we step up on monitoring for potential iodines and cesiums, things like that from Fukushima.

PATRICIA HOLAHAN: Yes.

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1 MARK SOMERVILLE: And we have, our first  
2 sample was counted at about 4:00 this morning that was  
3 positive.

4 PATRICIA HOLAHAN: Okay. And then that was  
5 from one monitor or one sampler?

6 MARK SOMERVILLE: That's correct.

7 PATRICIA HOLAHAN: Okay. Out of how many?

8 MARK SOMERVILLE: Well right now we have  
9 five deployed.

10 PATRICIA HOLAHAN: Okay.

11 MARK SOMERVILLE: But this is the one that  
12 we've been counting daily. This is kind of the one closest  
13 into the site.

14 PATRICIA HOLAHAN: Okay.

15 MARK SOMERVILLE: And that showed iodine-131  
16 at about  $6 \times 10^{-13}$  microcuries per cc.

17 PATRICIA HOLAHAN: Okay.

18 MARK SOMERVILLE: Now to confirm that we  
19 went to one of our outer ring air samplers, it's a front  
20 gate about six miles from the plant, but it's also right  
21 out on the ocean, so --

22 PATRICIA HOLAHAN: Okay.

23 MARK SOMERVILLE: -- you know, same general  
24 thing. And it was  $3.8 \times 10^{-13}$  iodine-131.

25 PATRICIA HOLAHAN: Okay.

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1 MARK SOMERVILLE: Again, no particulates.  
2 We are running noble gas continuous air monitors just  
3 basically for trend purposes and particulates continuous  
4 air monitors and those trends are flat, and as far, our  
5 pressurized ion chambers, we have 13 of them around the  
6 plant and around the local community.

7 PATRICIA HOLAHAN: Okay.

8 MARK SOMERVILLE: As you might expect.

9 PATRICIA HOLAHAN: Yes. Now the outer ring  
10 one that you sampled was that again at 4:00 this morning?

11 MARK SOMERVILLE: No. That was actually  
12 this afternoon and --

13 PATRICIA HOLAHAN: Okay.

14 MARK SOMERVILLE: -- you know, it's sort  
15 of like, well you know how these things work, but we  
16 were using the one close in as kind of an early warning  
17 indicator and we figured today would be the first day  
18 if we saw anything we'd see it.

19 We got so much interest, we notified the  
20 Resident, we notified Region IV and it was their request  
21 to call you. We also have a County that's involved in  
22 emergency response and the State, so in trying to be  
23 transparent with the numbers all of a sudden the number  
24 from this one single air sample result is in everybody's  
25 head.

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1 PATRICIA HOLAHAN: Oh, okay.

2 MARK SOMERVILLE: We took the second sample,  
3 this a monitor that we deployed back on Wednesday, we  
4 pulled the air sample filter and charcoal cartridge on  
5 that at about noon today.

6 PATRICIA HOLAHAN: About noon today?

7 MARK SOMERVILLE: That's correct.

8 PATRICIA HOLAHAN: Okay. Now how often are  
9 you sampling to change the filters?

10 MARK SOMERVILLE: Yes. We have changed the  
11 frequency. We're sampling, pulling samples every four  
12 hours at the Northwest side of our plant which is in  
13 the least, the wind blows the other direction.

14 So it's an area that is not in the influence  
15 of any normal (indiscernible, possibly "influence") from  
16 the plant.

17 PATRICIA HOLAHAN: Okay.

18 MARK SOMERVILLE: So we're taking four hour  
19 samples and we're counting those to LLDs that are between  
20 1 and  $2 \times 10^{-13}$  for, you know, iodine species.

21 PATRICIA HOLAHAN: Okay.

22 MARK SOMERVILLE: So typically, I mean these  
23 last few samples have been not that high above the lower  
24 limit of detection.

25 PATRICIA HOLAHAN: Yes.

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1 MARK SOMERVILLE: So, you know, by the same  
2 token the statistics on them have been good on our sampler,  
3 so --

4 PATRICIA HOLAHAN: Okay.

5 MARK SOMERVILLE: -- we're comfortable that  
6 it's seeing iodine.

7 PATRICIA HOLAHAN: All right. And then,  
8 so you're going to sample, now how long do you take to  
9 count them?

10 MARK SOMERVILLE: We're counting for 20  
11 minutes.

12 PATRICIA HOLAHAN: Okay. So you're taking  
13 samples so you should have a couple more samples tonight?

14 MARK SOMERVILLE: That's correct.

15 PATRICIA HOLAHAN: Okay. And, yes, okay.  
16 And can you let us know if you find anything else?

17 MARK SOMERVILLE: Yes. Oh, you bet.

18 PATRICIA HOLAHAN: Okay.

19 MARK SOMERVILLE: There was something I was  
20 going to ask you, or tell you something and it escaped  
21 me, but we are, oh, we're taking the samples that we  
22 count here on site and we're sending them off to our  
23 environmental laboratory which is DEL Labs back in South  
24 Carolina.

25 PATRICIA HOLAHAN: Okay.

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1 MARK SOMERVILLE: And, you know, we're also  
2 compositing our REMP samples, our normal continuous air  
3 monitors that are out all over our County here, rather  
4 than doing monthly composites.

5 I mean we'll still composite the data as  
6 we normally do, but we're asking for intermittent weekly  
7 results. So we're going to follow up all these air samples  
8 with an independent offsite count.

9 PATRICIA HOLAHAN: Okay.

10 MARK SOMERVILLE: And, you know, so we can  
11 build the time line and sort of build a good, credible  
12 book on whatever information we have.

13 PATRICIA HOLAHAN: Okay. So you're sending  
14 duplicate samples to the environmental lab in North  
15 Carolina?

16 MARK SOMERVILLE: That's correct.

17 PATRICIA HOLAHAN: Okay. All right.

18 MARK SOMERVILLE: Okay.

19 PATRICIA HOLAHAN: And how long do they take  
20 to analyze it? Is that --

21 MARK SOMERVILLE: Well we're asking for  
22 immediate turnaround, but --

23 PATRICIA HOLAHAN: Okay.

24 MARK SOMERVILLE: -- you know, immediate  
25 is not going to be better than a couple of days.

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1 PATRICIAHOLAHAN: Yes. Okay. I was trying  
2 to think if there was anything, any other questions I  
3 had for you. Now can I get your number that I --

4 MARK SOMERVILLE: Yes, absolutely.

5 PATRICIA HOLAHAN: Okay.

6 MARK SOMERVILLE: I'll give you a couple.

7 PATRICIA HOLAHAN: Okay.

8 MARK SOMERVILLE: My actual official work  
9 number is area code 805 --

10 PATRICIA HOLAHAN: 805 --

11 MARK SOMERVILLE: That's correct, 545-4007.

12 PATRICIA HOLAHAN: Okay, 545-4007.

13 MARK SOMERVILLE: That's correct.

14 PATRICIA HOLAHAN: Okay.

15 MARK SOMERVILLE: And my cell phone number  
16 which is probably going to be the best one here in not  
17 too long --

18 PATRICIA HOLAHAN: Yes, and through the  
19 weekend.

20 MARK SOMERVILLE: -- area code (b)(6) -

21 PATRICIA HOLAHAN: What was that?

22 MARK SOMERVILLE: Area code (b)(6)

23 PATRICIA HOLAHAN: Okay.

24 MARK SOMERVILLE: -- (b)(6)

25 PATRICIA HOLAHAN: (b)(6)

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1 MARK SOMERVILLE: And my name is Mark --

2 PATRICIA HOLAHAN: Mark.

3 MARK SOMERVILLE: -- last name is SOMERVILLE,  
4 S-O-M-E-R-V-I-L-L-E, kind of like the town in New Jersey.

5 PATRICIA HOLAHAN: Oh, yes. And, okay. And  
6 this is great information. Thank you very much.

7 MARK SOMERVILLE: Oh, you're quite welcome.

8 PATRICIA HOLAHAN: And, you know, and if  
9 you get anymore please don't hesitate to call.

10 MARK SOMERVILLE: You betcha. You'll be  
11 real close to the first to know.

12 PATRICIA HOLAHAN: Thank you.

13 MARK SOMERVILLE: Okay.

14 PATRICIA HOLAHAN: All right.

15 MARK SOMERVILLE: I'll see you.

16 PATRICIA HOLAHAN: Okay. Bye-bye.

17 MARK SOMERVILLE: Bye.  
18  
19  
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(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center, Greg  
Casto.

CHRIS SMITH: Hi. It's Chris Smith. How  
are you?

GREG CASTO: Hey, Chris.

CHRIS SMITH: How's it going?

GREG CASTO: It's going. Okay, let's see,  
this is on getting the source term.

CHRIS SMITH: Correct.

GREG CASTO: Yes. We are briefing our  
executive team right now.

CHRIS SMITH: Okay.

GREG CASTO: So it's working. We want to  
make sure --

CHRIS SMITH: No, that's exactly what --

GREG CASTO: Right.

CHRIS SMITH: -- I expected was going to  
need to happen.

GREG CASTO: Yes. We were, maybe the timing  
was a little optimistic, but we've had it for awhile,  
so now we're vetting it.

CHRIS SMITH: Okay, so --

GREG CASTO: And, yes.

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1 CHRIS SMITH: -- let me ask you, do you have  
2 a sense for the source file itself and the description  
3 coming over at the same time or one --

4 GREG CASTO: Yes. No, it will. In fact  
5 that's what they're discussing. It is done now.

6 CHRIS SMITH: Okay.

7 GREG CASTO: So --

8 CHRIS SMITH: And I don't want to presume  
9 --

10 GREG CASTO: No.

11 CHRIS SMITH: -- because I know it's still  
12 going through your vetting process.

13 GREG CASTO: Yes. But that's where we are.

14 CHRIS SMITH: Just so, because the one thing  
15 I want to touch base just so our NARAC folks end up doing  
16 something that's consistent.

17 GREG CASTO: Okay.

18 CHRIS SMITH: The release term is that the  
19 time of the detonation?

20 GREG CASTO: The --

21 CHRIS SMITH: Is that, you identified that  
22 in the description, correct?

23 GREG CASTO: The time of detonation? Yes  
24 --

25 CHRIS SMITH: That's all I want to make sure

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1 is you identify exactly when the releases occurred because  
2 that effects the decay (indiscernible) --

3 GREG CASTO: Oh, oh, oh, oh, okay. Well,  
4 okay. Now as far as for the operating reactors --

5 CHRIS SMITH: Yes, (indiscernible) --

6 GREG CASTO: -- that starts at time of trip.

7 CHRIS SMITH: -- spent fuel.

8 GREG CASTO: Right. That's starts at time  
9 of trip. Spent fuel, and we will put a timestamp --

10 CHRIS SMITH: Yes. And --

11 GREG CASTO: -- on that, but what it,  
12 recreating that is --

13 CHRIS SMITH: No, no, no --

14 GREG CASTO: -- especially since you are  
15 going to run it in, I guess in a series --

16 CHRIS SMITH: So, yes.

17 GREG CASTO: -- we can't do that --

18 CHRIS SMITH: (Indiscernible).

19 GREG CASTO: -- NARAC has to do that, to  
20 combine them all. Okay. Go ahead.

21 CHRIS SMITH: I just wanted to make sure  
22 that we're both on the same page. If we say one release  
23 occurs on, what month is this, March? March 16 --

24 GREG CASTO: Yes.

25 CHRIS SMITH: -- that NARAC is doing the

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1 same thing.

2 GREG CASTO: Right.

3 CHRIS SMITH: So that we, because  
4 particularly for that operating reactor the time we picked  
5 for the release will affect the iodine in it or --

6 GREG CASTO: Slightly. Well, slightly, yes.  
7 Yes, now what, I'm thinking, but --

8 CHRIS SMITH: (Indiscernible).

9 GREG CASTO: -- I see what you're saying.  
10 Because what we'll have on RASCAL is we ask the question,  
11 time of plant trip. That'll be one signet or that will  
12 be one timestamp and then time of release is the second  
13 timestamp. So I understand what you're saying. Now --

14 CHRIS SMITH: So it's imbedded in the file.  
15 I just want to make sure your summary is going to highlight  
16 what those times the releases are --

17 GREG CASTO: Okay.

18 CHRIS SMITH: -- different in terms.

19 GREG CASTO: Okay. And when we send the  
20 file we'll (indiscernible, possibly "call it"), I think,  
21 and Lou Brandon is the one to talk to this specifically,  
22 but --

23 CHRIS SMITH: Yes, (indiscernible) debrief  
24 him.

25 GREG CASTO: Right. But because you will

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1 not get one file. You will get four --

2 CHRIS SMITH: -- three files.

3 GREG CASTO: Actually four because of the  
4 way it has to be modeled. You will get four separate  
5 files which represent four different fuel states.

6 CHRIS SMITH: So the four, just real quick,  
7 and I'll (indiscernible) --

8 GREG CASTO: Okay.

9 CHRIS SMITH: -- (indiscernible).

10 GREG CASTO: One is operating reactor in  
11 the core.

12 CHRIS SMITH: Yes.

13 GREG CASTO: Okay. That's one. Fresh spent  
14 fuel in Unit 3 core, I believe, is two. Depleted core  
15 in Unit 3 is, no that's not true. Depleted core in Unit  
16 3 and 4 will be runs three and four. The Unit 4 spent  
17 fuel pool has two --

18 CHRIS SMITH: Two runs because you've got  
19 three batches as opposed to the typical one batch?

20 GREG CASTO: Correct. And they're in  
21 different states.

22 CHRIS SMITH: Got it. Got it.

23 GREG CASTO: Yes.

24 CHRIS SMITH: Okay.

25 GREG CASTO: Okay.

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1 CHRIS SMITH: I --

2 GREG CASTO: You understand that?

3 CHRIS SMITH: Right.

4 GREG CASTO: Okay.

5 CHRIS SMITH: I got it.

6 GREG CASTO: But, you know, that --

7 CHRIS SMITH: So I'll tell you what --

8 GREG CASTO: Yes, but that will be good once  
9 it's delivered to NARAC to get on the phone and talk  
10 through that to make sure there are no questions.

11 CHRIS SMITH: Yes, exactly.

12 GREG CASTO: Yes.

13 CHRIS SMITH: I'll tell you what. If you  
14 guys can call over to me, do you have our number.

15 GREG CASTO: Give it to me. I think we do,  
16 but give it to me.

17 CHRIS SMITH: 202 --

18 GREG CASTO: 202 --

19 CHRIS SMITH: -- 586 --

20 GREG CASTO: -- 586 --

21 CHRIS SMITH: -- 8100 -

22 GREG CASTO: -- 8100, yes.

23 CHRIS SMITH: And then ask for the Nuclear  
24 Incident Team or me.

25 GREG CASTO: Got it.

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1 CHRIS SMITH: And when you guys are ready,  
2 give me a call and then we'll get the people spun up  
3 and get on the bridge line.

4 GREG CASTO: Okay. Gotcha.

5 CHRIS SMITH: Okay.

6 GREG CASTO: Okay. Will do.

7 CHRIS SMITH: Thanks.

8 GREG CASTO: Okay. Thank you. Bye.

9 CHRIS SMITH: Bye.

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: (Indiscernible), may I help you?

KATHRYN BROCK: Hi. This is Kathy Brock calling from the NRC Operations Center. May I please be patched to the NIT?

MALE PARTICIPANT: Sure.

KATHRYN BROCK: Thanks.

MALE PARTICIPANT: Go ahead, Kathy.

KATHRYNBROCK: Yes, hi. This is Kathy Brock from the NRC Operations Center.

MAJOR DUNLAP: Yes.

KATHRYN BROCK: Who --

MAJOR DUNLAP: This is Major Dunlap from NIT Ops.

KATHRYN BROCK: Hi, there. How are you?

MAJOR DUNLAP: I'm fine. How are you?

KATHRYN BROCK: Good. The reason for my call is, I was hoping to get patched over to NARAC. Well I have two questions. One is a question for NARAC and two is I'm wondering if there's any call set up,

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1 you know, conference call, I think they had been at 8:00  
2 daily in the past?

3 MAJOR DUNLAP: Okay. I'll need to check  
4 on that with you, for with NARAC?

5 KATHRYN BROCK: Yes.

6 MAJOR DUNLAP: Okay. And you said you're  
7 from the NOC, DHS NOC?

8 KATHRYN BROCK: No. I'm from Nuclear  
9 Regulatory Commission.

10 MAJOR DUNLAP: Oh, NRC.

11 KATHRYN BROCK: Yes.

12 MAJOR DUNLAP: Okay. All right, standby  
13 one second please.

14 KATHRYN BROCK: Thanks.

15 A.J. GIPSON: Hey, ma'am. This is A.J.  
16 Gipson.

17 KATHRYN BROCK: Hello?

18 A.J. GIPSON: This is A.J. Gipson. How are  
19 you doing?

20 KATHRYN BROCK: Hi, there. How are you?

21 A.J. GIPSON: All right.

22 KATHRYN BROCK: Good, okay. So, A.J.,  
23 you're with NARAC?

24 A.J. GIPSON: Well I'm, I run their first  
25 (indiscernible), but tell me what you need?

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1 KATHRYN BROCK: Okay. I have a question  
2 for NARAC about their modeling that they're running.  
3 I'm wondering if I could get a list of the territories  
4 and States that they're modeling out to.

5 If it's Alaska, Hawaii, Oregon, Guam, you  
6 know, all --

7 A.J. GIPSON: That they're, all right. So,  
8 all right. All right, I'll get you an answer on that  
9 because I don't --

10 KATHRYN BROCK: Yes. We just heard they  
11 were going to the U.S., you know, they were modeling  
12 to the U.S., but we wanted to know if it included all  
13 the territories on the way to the Coast and if it included,  
14 you know, our California, Oregon, Washington Coast.

15 A.J. GIPSON: Okay.

16 KATHRYN BROCK: And then I was wondering,  
17 do you know if there's a routine call set up? There  
18 had been one at like 8:00 every morning and if there's  
19 a call we want to be on it, but we're not aware of one.

20 A.J. GIPSON: Right, okay. It's kind of  
21 sort there, 8:00, and within the next 20 minutes I'll  
22 be able to get you, should be able to get you approval  
23 to be on that call. Your name again is?

24 KATHRYN BROCK: Kathy Brock.

25 A.J. GIPSON: Okay, and the number where

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1 you're at?

2 KATHRYN BROCK: I'm at (301) 816-5419.

3 A.J. GIPSON: 5419, NRC right?

4 KATHRYN BROCK: Yes. So do I, if I'm going  
5 to get on a call at 8:00, do I call and get patched to  
6 the NIT or is there a separate line with passwords?

7 A.J. GIPSON: I'll get you a line and then  
8 I'll let, when I call you back I'll have you connected  
9 (indiscernible, possibly "in").

10 KATHRYN BROCK: Thank you.

11 A.J. GIPSON: Thank you.

12 KATHRYN BROCK: All right. Talk to you in  
13 a little bit.

14 A.J. GIPSON: All right.

15 KATHRYN BROCK: Thanks, A.J. Bye.

16 A.J. GIPSON: Bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Office of Research.

JOHN LUBINSKI: Hi. This is John Lubinski  
in the NRC Operations Center. This is a recorded line.  
I was calling for Jennifer Uhle.

FEMALE PARTICIPANT: (b)(6)

(b)(6)

JOHN LUBINSKI: Okay. Do you have a cell  
phone or blackberry for her?

FEMALE PARTICIPANT: I sure do. Her  
blackberry is 240 --

JOHN LUBINSKI: (b) --

FEMALE PARTICIPANT: -- (b) --

JOHN LUBINSKI: -- (b) --

FEMALE PARTICIPANT: -- (b)(6)

JOHN LUBINSKI: -- (b)(6)

FEMALE PARTICIPANT: Correct.

JOHN LUBINSKI: Do you have any idea of what  
her schedule was? I mean I was going to call her, but  
if she's been like up till 3:00 in the morning.

FEMALE PARTICIPANT: I don't know. I wasn't  
in yesterday and --

JOHN LUBINSKI: Okay.

FEMALE PARTICIPANT: I know she's involved

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1 with all this stuff going on.

2 JOHN LUBINSKI: Right. Okay. I will give  
3 her a call.

4 FEMALE PARTICIPANT: Okay.

5 JOHN LUBINSKI: Thank you. Bye.

6 FEMALE PARTICIPANT: Bye.

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: Hello, Craig. May I help you?

KATHRYN BROCK: Hi. May I be connected with A.J. at the NIT.

MALE PARTICIPANT: Okay. Who's calling please?

KATHRYN BROCK: Oh, sorry, Kathy Brock from NRC and this is a recorded line.

MALE PARTICIPANT: Okay. Hold on please. Hey, Kathy, A.J.'s on the line, go ahead please.

KATHRYN BROCK: Thank you. Hey, A.J.

A.J. GIPSON: Hey, Kathy. And I told you

--

KATHRYN BROCK: Hey, just so you know this is a recorded line.

A.J. GIPSON: Oh, no worries, no worries. I told you I'd make magic. Okay, 877 --

KATHRYN BROCK: Okay.

A.J. GIPSON: -- 336-1274 --

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1 KATHRYN BROCK: Okay.

2 A.J. GIPSON: -- and the code is (b)(6)

3 KATHRYN BROCK: And then pound?

4 A.J. GIPSON: Then pound, right.

5 KATHRYN BROCK: Thank you. And so that's  
6 at 8:00?

7 A.J. GIPSON: That's at 8:00. You're  
8 welcome on those calls and they probably will, I asked  
9 them to talk towards the data. They're not doing a plot  
10 for on a map, they're basically using a chart with service  
11 arrivals, days, and then the estimated deposition for  
12 two isotopes.

13 KATHRYN BROCK: Gotcha. Thank you.

14 A.J. GIPSON: Okay. So it won't, if it's,  
15 I asked them to come up with how long it'll take them  
16 to generate the numbers for the actual places you may  
17 want and that will be the determination on whether they'll  
18 do that or not.

19 KATHRYN BROCK: Okay. Good.

20 A.J. GIPSON: So that should be discussed  
21 on the call.

22 KATHRYN BROCK: Thank you. And here --

23 A.J. GIPSON: All right.

24 KATHRYN BROCK: -- let me ask you a question.  
25 You tried to call and nobody picked up because I was

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1 sitting here, so what happened?

2 A.J. GIPSON: After about four or five rings  
3 it went to some lady's voice mail.

4 KATHRYN BROCK: You called 4415?

5 A.J. GIPSON: No, when we talked you gave  
6 me 816-5419.

7 KATHRYN BROCK: 5419? I did. Yes, because  
8 I was thinking I'd be, huh, it didn't ring. That's really  
9 weird.

10 A.J. GIPSON: Okay.

11 KATHRYN BROCK: All right. I just want to  
12 make sure I don't have any issues, but --

13 A.J. GIPSON: All right. So perhaps call  
14 that number back at some point and see what's it's doing  
15 for you.

16 KATHRYN BROCK: Yes, I will. Thank you.

17 A.J. GIPSON: All right. You're welcome.

18 KATHRYN BROCK: Bye-bye.

19 A.J. GIPSON: All right. Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: See if it rings.

4 MALE PARTICIPANT: Maybe we're --

5 KATHRYN BROCK: We weren't because it was  
6 within the last couple minutes. It's, yes, we got a  
7 call. It's not answering.

8 MALE PARTICIPANT: It's not ringing?

9 REBECCA HARSTAN (phonetic): Hello. This  
10 is Rebecca Harstan. I am away from my desk right now,  
11 but if you please leave your name and your phone number  
12 and a brief message I'll return you're call as quickly  
13 as possible.

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(CONFERENCE CALL INITIATED)

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

MALE PARTICIPANT: Hello, Craig. May I help you?

KATHRYN BROCK: Hi. This is Kathy Brock from the Nuclear Regulatory Commission. May I be patched to the NIT to A.J.?

MALE PARTICIPANT: Okay. Hold on please.

KATHRYN BROCK: Thanks.

MALE PARTICIPANT: Okay, Kathy, you're on with NIT Ops. Go ahead please.

KATHRYN BROCK: Thanks. Hi, is A.J. around?

DAVE BOWMAN: No, he stepped out, but this is Dave Bowman. How can I help you?

KATHRYN BROCK: Oh, Dave. How you doing? It's Kathy Brock calling. We were trying to get on the 8:00 call and I think there's a mistake in the phone number that A.J. gave me.

DAVE BOWMAN: Okay. I've got it right here. I can give it to you.

KATHRYN BROCK: Okay, great.

DAVE BOWMAN: (877) 336-1274.

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KATHRYN BROCK: All right. There we go.

DAVE BOWMAN: And then there's a pin number,

(b)(6)

KATHRYN BROCK: Thank you. That's the one.

DAVE BOWMAN: Okay.

KATHRYN BROCK: I'll try it. Thank you.

DAVE BOWMAN: All right. Bye.

KATHRYN BROCK: Bye.

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team.

MALE PARTICIPANT: Yes, ma'am. I've got a lady on the line who would like to speak to you. Hang on one second.

KATHRYN BROCK: Sure.

JEANNIE DION: Hello.

KATHRYN BROCK: Hello.

JEANNIE DION: Hi. My name is Jeannie Dion. I'm trying to get in touch with somebody on the PMT.

KATHRYN BROCK: You got it.

JEANNIE DION: Okay.

KATHRYN BROCK: This is Kathy Brock.

JEANNIE DION: Oh, hi, Kathy. I am trying to put together some talking points and bullets for a commission briefing on Monday and I had sent over an email last night and talked to somebody on the phone.

And so I had requested talking points and for them to identify somebody who could support the commission briefing Monday morning. Are you familiar with that request?

KATHRYN BROCK: Nope. I'm looking at my, okay --

JEANNIE DION: Okay. So I requested, I

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1 talked to, I forget the name, his name.

2 KATHRYN BROCK: What time was it?

3 JEANNIE DION: Yesterday around 4:00 or  
4 5:00.

5 KATHRYN BROCK: John Tappert, maybe?

6 JEANNIE DION: No. He had a very long name,  
7 last name. I can't --

8 KATHRYN BROCK: Anyway --

9 JEANNIE DION: Okay. Yes, so I had sent  
10 over a request to P-M-T 12 dot --

11 KATHRYN BROCK: All right. From you?

12 JEANNIE DION: Yes. And then I had called  
13 and verified at 10:00 p.m. that somebody, that they had  
14 received it and that they're working on it. And so I  
15 had, the request was asking for three things.

16 The first thing is --

17 KATHRYN BROCK: There it is. Wait --

18 JEANNIE DION: -- talking points --

19 KATHRYN BROCK: -- hang on.

20 JEANNIE DION: -- about RASCAL and what the  
21 Op Center is doing to monitor the consequence in the  
22 plume modeling and everything. And then task two was  
23 the questions and answers about, you know, potential  
24 consequences and this is for the EDOs briefing to the  
25 commission.

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1                   And another task was to provide the name  
2 of a technical person that can support the meeting and  
3 who could be at (indiscernible) at 7:30 in the morning  
4 on Monday, and then that person would be able to step  
5 up to a microphone and answer technical questions if  
6 needed. So --

7                   KATHRYN BROCK: All right. Well I didn't,  
8 I was not aware of this.

9                   JEANNIE DION: Oh, okay.

10                  KATHRYN BROCK: I see it now.

11                  JEANNIE DION: Okay.

12                  KATHRYN BROCK: It was not part of our  
13 turnover, mostly because I think, you know, we're turning  
14 over stuff related to the event.

15                  JEANNIE DION: Okay.

16                  KATHRYN BROCK: So I'm sorry that it --

17                  JEANNIE DION: No, it's okay. So, let's  
18 see, so I'm supposed to provide slides at 10:00 a.m.  
19 today. So --

20                  KATHRYN BROCK: Slides to who?

21                  JEANNIE DION: Slides to the NRR, Alan Howard  
22 (phonetic), he's the lead for putting together the  
23 presentation. So Bill Borchardt is going to give the  
24 entire presentation and, you know, we've delegated tasks,  
25 and so, but what I'm supposed to be doing is coming up

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1 with talking points.

2 Really high-level talking points because  
3 this is going to be a public meeting and just a one-liner  
4 bullet that will go into an overview slide, just an update  
5 on the status. And then also talking points for that,  
6 to have background information.

7 KATHRYN BROCK: Wait. Let me, I'm going  
8 to have to read this so I understand.

9 JEANNIE DION: Okay.

10 KATHRYN BROCK: So action "task one, provide  
11 brief high-level talking points about monitoring  
12 activities in the Ops Center to predict the potential  
13 consequence to the U.S."

14 That one's probably going to be easy because  
15 we're not doing anymore.

16 JEANNIE DION: Oh, okay. Well, okay.

17 KATHRYN BROCK: We'll have to put it together  
18 for you. "Task two, a list of Q&As," oh God --

19 JEANNIE DION: Yes.

20 KATHRYN BROCK: They know we're busy, right?

21 I mean --

22 JEANNIE DION: Yes, I know.

23 KATHRYN BROCK: -- come on. All right,  
24 that's just venting to the messenger. "And then provide  
25 a technical liaison." All right, let me get going on

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1 this.

2 JEANNIE DION: Okay. Thank you.

3 KATHRYN BROCK: Okay.

4 JEANNIE DION: Okay.

5 KATHRYN BROCK: Wait, what's your phone  
6 number?

7 JEANNIE DION: Oh, it's (b)(6)

8 KATHRYN BROCK: All right. Thanks.

9 JEANNIE DION: Okay. Thank you. Bye.

10 KATHRYN BROCK: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 JOHN LUBINSKI: John Lubinski. May I help  
4 you? Hello. This is John Lubinski. This is a recorded  
5 line.

6 JOHN NASSTROM: Yes, hi. This is John  
7 Nasstrom from NARAC. I have Gerry Garino also on the  
8 line from the Department of Energy.

9 JOHN LUBINSKI: Okay. Can you hold while  
10 I put you on speaker phone?

11 JOHN NASSTROM: Sure.

12 JOHN LUBINSKI: Okay. If I lose you please  
13 call right back.

14 JOHN NASSTROM: Okay.

15 JOHN LUBINSKI: Okay. You still there?

16 JOHN NASSTROM: Yes. Hi. This is John  
17 Nasstrom from NARAC and I also have Gerry Garino on the  
18 phone from the Department of Energy. Gerry, do you want  
19 to relay your request?

20 The question is regarding the super core  
21 source term that NARACs using in the latest projections  
22 that we're making.

23 GERRY GARINO: Wait. First can I ask who's  
24 on the line at NRC?

25 JOHN LUBINSKI: Okay. You have three

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1 individuals here on line, John Lubinski, PMT Director.

2 KATHRYN BROCK: Kathryn Brock, Deputy  
3 Director.

4 BRUCE WATSON: Bruce Watson, I'm the  
5 (indiscernible) Assessment Director.

6 JOHN LUBINSKI: And Bruce and Kathy are going  
7 to be the leads for technical discussion, so go ahead.

8 GERRY GARINO: Okay. I'm looking at the  
9 NRC super core scenario source term which has a list  
10 of isotopes which I think is what NARAC is using for  
11 their latest plume model.

12 When this goes up I think, so I just got  
13 out of a meeting here with our (indiscernible), and they  
14 are going to want sort of a description of what led to  
15 this, you know, these isotopes, what's in the source  
16 term and why and perhaps, because the fact it's going

17 (b)(5)  
18  
19

20 They're going to maybe have some other  
21 questions and we should probably try to be proactive  
22 and try to answer some of those. I would recommend a  
23 short description of what, you know, what led to this  
24 source term.

25 You know, questions that have been thrown

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1 around at me are, you know, what burn up did this assume  
2 and why, and, you know, what release fraction and why,  
3 things like that.

4 So all I really have is on this excel  
5 spreadsheet. At the top of each column, you know, it  
6 says Unit 2, 33 percent, Unit 3, spent fuel pool, 100  
7 percent, so I think --

8 BRUCE WATSON: They're asking for the basis  
9 of our dose modeling computer system, okay? The release  
10 fractions from the fuel are based on new regs, 4255 --

11 JOHN LUBINSKI: Before you go there, Bruce,  
12 let's make sure we understand the question, okay?

13 GERRY GARINO: Yes.

14 JOHN LUBINSKI: Because I heard it a little  
15 bit differently.

16 BRUCE WATSON: Okay.

17 JOHN LUBINSKI: Okay. So, yes, Bruce is  
18 answering what does the model tell us to get the isotopes  
19 and the dose fractions.

20 What I heard different there was, and I just  
21 want to make sure we're hearing your question correctly  
22 or your comment is, why did we assume that, you know,  
23 not assume Reactor 1, why did we not assume the spent  
24 fuel pool in Reactor 1, why did we assume the spent fuel  
25 pool in Reactor 3, why did we assume 100 percent burn.

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1 So which part is the question you're asking?

2 Is it the one Bruce heard or the one I heard?

3 JOHN NASSTROM: I think it's actually just  
4 that what assumptions did you make for the source term?

5 What Units actually were used in the source term and  
6 what were the assumptions?

7 JOHN LUBINSKI: Okay.

8 JOHN NASSTROM: I think that's it, right  
9 Gerry?

10 GERRY GARINO: Yes. So I think that first,  
11 what were the assumptions and then, I mean, you know,  
12 you could probably write a thesis on why and I don't  
13 think we need that, you might want to just, if you can,  
14 explain maybe with backup slides or something why you  
15 made these assumptions.

16 And the first question about the basis of  
17 the dose modeling, I'm separating, and let me know if  
18 I'm doing this, if my thinking is correct, the source  
19 term is sort of independent of what doses anybody's  
20 calculating.

21 It's independent of what weather or what  
22 NARAC is going to do to get a plume. This is just what  
23 we think is going to be released from the, if this core  
24 melted down we think this much iodine is going to be  
25 released into the atmosphere.

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1 Okay, then, and maybe this is how it's going  
2 to be released --

3 BRUCE WATSON: Okay, John Nasstram?

4 JOHN NASSTROM: Yes.

5 BRUCE WATSON: We've gone over this a number  
6 of times and nothing's really changed. Our source term  
7 is, of course, the Unit 2 Reactor. I think we used 33  
8 percent of core melt, 25 percent of that was released.  
9 No containment, direct release to the atmosphere.

10 And then we have the Unit 3 spent fuel pool,  
11 again, 50 percent of that fuel was melted because the  
12 lack of water and that's released directly to the  
13 environment because the roof's off and it's going right  
14 straight up in the air.

15 And in the fourth source term, excuse me,  
16 the third part of that source term is, of course, the  
17 Unit 4 spent fuel pool and that was 100 percent fuel  
18 melt. And then in both cases we accounted for the new  
19 fuel that was recently offloaded which was (b) assemblies,  
(4) fuel assemblies, for Unit 3 and those were offloaded  
20 about 105 days ago, maybe it's (b) now since we started.  
(4)

21 JOHN NASSTROM: Yes.

22 BRUCE WATSON: And the Unit 4 we assumed  
23 that the full off core load of (b)(4) bundles were removed  
24 from the core about 30 days ago.  
25

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1 JOHN NASSTROM: Yes. I think the point here,  
2 you have told us all that --

3 BRUCE WATSON: Yes.

4 JOHN NASSTROM: -- and I think what Gerry's  
5 getting at is this is going into an analysis that's going

6 (b)(5)

7  
8  
9  
10 I believe that's what they're looking for.

11 BRUCE WATSON: Okay. Well we thought we  
12 kind of did that yesterday.

13 GERRY GARINO: Well I think if we  
14 (indiscernible) --

15 JOHN NASSTROM: Well, no, you did it to us,  
16 but we're, yes.

17 JOHN LUBINSKI: Hey, John. I guess I need  
18 to ask and maybe push back a little bit on that is, you  
19 know, from the standpoint, and our understanding is the  
20 request came to NARAC to run this data. (b)(5)

21 (b)(5)

22 We, my understanding, I was, you know, not  
23 here last night when a lot of this conversation was taking  
24 place. (b)(5) --

25 JOHN NASSTROM: Yes, absolutely, and we're

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1 (b)(5)

2  
3 JOHN LUBINSKI: But, no, my point is that,

4 (b)(5)

5  
6  
7  
8 BRUCE WATSON: Yes, we haven't had it come  
9 through our Executive Team asking us for that yet.

10 JOHN LUBINSKI: Yes, (b)(5)

11 (b)(5)

12  
13  
14 JOHN NASSTROM: No, no. It's not --

15 GERRY GARINO: No, no, okay. Can I say,  
16 first let me say, I think, yes, that there was a lot  
17 of discussion last night and I think it was good discussion.

18 All I'm really asking for, I don't  
19 (indiscernible) send it to, just send it to NARAC, send  
20 it to DOE. Can you document what your assumptions were  
21 to get this source term?

22 JOHN LUBINSKI: Okay. And we'll base --

23 GERRY GARINO: We're, go ahead.

24 JOHN LUBINSKI: I was going to say your asking  
25 for basically, we did send an email last night at, this

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1 morning at 3:57 a.m. Eastern time, and it had these  
2 assumptions in there listed out what Bruce just read  
3 to you.

4 What you're asking for is a little more on  
5 why we came up with these assumptions?

6 GERRY GARINO: Okay. I have not seen, if  
7 you provided documentation about what the assumptions  
8 are, I have not seen it. So if you can direct me to  
9 where I can get that --

10 JOHN LUBINSKI: Sure. We'll just email it  
11 to you right now and if it's --

12 JOHN NASSTROM: Yes. That's probably the  
13 shortest way to do that I guess. Yes, if you could email  
14 it to Gerry.

15 BRUCE WATSON: Well it was sent to you guys  
16 at NARAC and NIT Ops and --

17 JOHN LUBINSKI: Well let's just  
18 (indiscernible) --

19 JOHN NASSTROM: Well it was sent to NIT Ops.  
20 Okay, then you'll have it Gerry. So I didn't realize  
21 it had been copied to NIT Ops, so --

22 BRUCE WATSON: NITOPS@NNSA.DOE.GOV.

23 JOHN NASSTROM: Right.

24 GERRY GARINO: Right.

25 BRUCE WATSON: And that was Friday, March

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1 18, at 3:57 a.m. this morning, so that they can search  
2 for it.

3 GERRY GARINO: Okay.

4 JOHN LUBINSKI: Okay?

5 GERRY GARINO: And that's more than just  
6 the excel spreadsheet?

7 BRUCE WATSON: Yes. This has a narrative  
8 that says "Unit 2, source term provided for 33 percent  
9 core melt RASCAL run, 25 percent core activity actually  
10 released, no containment."

11 And then it has the same kind of descriptions  
12 for Unit 3 and the spent fuel pool with Unit 4.

13 JOHN LUBINSKI: And if they want specifics  
14 on how the dose model computer works --

15 JOHN NASSTROM: No, no. They're not worried  
16 about those. They're just source terms, so --

17 JOHN LUBINSKI: All right.

18 BRUCE WATSON: Yes, if you can find that  
19 email, it went to you. If you can't find it let us know,  
20 we'll try and return it. Otherwise maybe, John, you  
21 can send him your copy?

22 JOHN NASSTROM: Yes, I have it right in front  
23 of me and I'll send it to you directly, Gerry, as well  
24 as to NIT Ops.

25 GERRY GARINO: Okay. Now is there also a

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1 discussion of what the uncertainties would be or some  
2 estimate of uncertainty on that?

3 JOHN LUBINSKI: No. We don't have any  
4 discussion on uncertainties that --

5 BRUCE WATSON: No. All we send them is the  
6 source term and our assumptions with the releases. We  
7 don't put any MET data in those or any postulated with  
8 mitigation actions.

9 GERRY GARINO: Okay. I think if I could  
10 ask you to maybe start thinking about how you would describe  
11 your uncertainty in the source term, that would be useful.

12 BRUCE WATSON: Well take a look at the email  
13 we sent you and it assumes no mitigation actions and  
14 it also assumes that these are unfettered releases to  
15 the environment --

16 GERRY GARINO: Okay. So let me --

17 BRUCE WATSON: -- for the most part.

18 GERRY GARINO: I'm going to propose I hang  
19 up and go get that document and read it. If I have questions,  
20 who should I call and at what number?

21 JOHN LUBINSKI: If you can call back, yes,  
22 we can't go through this phone. You can call back (301)  
23 816-5100 and ask for the PMT.

24 GERRY GARINO: Okay.

25 JOHN LUBINSKI: And you'll get us, we'll

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1 be here till, you know, the three people you're talking  
2 to, John, Bruce, and Kathy, will be here until 3:00 p.m.  
3 today.

4 BRUCE WATSON: Right.

5 JOHN LUBINSKI: And the next crew will be  
6 at the same number.

7 GERRY GARINO: Okay.

8 JOHN NASSTROM: Okay, so just to confirm  
9 that, you guys, that was the email you sent with the  
10 latest source term for super core was March 18 --

11 BRUCE WATSON: Is that what you guys are  
12 calling it, huh?

13 JOHN NASSTROM: Well, no, that's what we  
14 thought you called it. That's why we named it that way.

15 BRUCE WATSON: It's on my email in there.

16 JOHN LUBINSKI: Okay, cool.

17 BRUCE WATSON: Yes, March 18, 3:57 a.m.  
18 Eastern.

19 JOHN NASSTROM: All right. Okay. Now, and  
20 then there's a bunch of spreadsheets with it obviously  
21 and I know you've answered this before and I just came  
22 on shift, there's separate analyses for each Unit, right?

23 And then, and I think what NARAC did is they  
24 just summed that up. Is that --

25 JOHN LUBINSKI: Yes --

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1 KATHRYN BROCK: Yes.

2 JOHN LUBINSKI: -- but careful, look at the  
3 email because what they sent --

4 JOHN NASSTROM: Yes, they divide by 50  
5 percent --

6 JOHN LUBINSKI: -- it requires you to make  
7 a little adjustment.

8 JOHN NASSTROM: Yes, I say, yes, it's --

9 BRUCE WATSON: They're big adjustments.

10 JOHN NASSTROM: And NARAC divides this in  
11 half, I see that.

12 BRUCE WATSON: In the past we had sent you  
13 directly what the, the spreadsheets had the direct  
14 correlation to the source term.

15 JOHN NASSTROM: Right. Yes, okay. So you  
16 sent us your own summation, but now you send us the  
17 individual components with instructions on how to use  
18 them --

19 BRUCE WATSON: Okay.

20 JOHN NASSTROM: -- in terms of percentages,  
21 right? Okay.

22 BRUCE WATSON: Yes.

23 JOHN NASSTROM: I understand.

24 JOHN LUBINSKI: Hey, before you guys go and  
25 I appreciate, Gerry, the, we were going on the assumption

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1 you had that email already. So sorry for --

2 JOHN NASSTROM: Actually it is in NIT Ops,  
3 but I'm re-sending it now.

4 JOHN LUBINSKI: So anyway, I apologize.  
5 That's what we were going from that is being a based  
6 --

7 JOHN NASSTROM: Okay. So are you guys okay,  
8 I think it would be good to standardize on the terminology  
9 here, so I'm going to, we going to keep it calling it  
10 the super core and that it'll make it easier? Is that  
11 making sense for everybody?

12 BRUCE WATSON: You want call it, we'll call  
13 it that.

14 JOHN LUBINSKI: That's fine.

15 JOHN NASSTROM: Thank you.

16 BRUCE WATSON: A rose is a rose.

17 JOHN NASSTROM: Yes.

18 JOHN LUBINSKI: Yes.

19 KATHRYN BROCK: I have another question.

20 JOHN LUBINSKI: Yes, we've got a couple other  
21 questions here while we have you on the line. I'll let  
22 Kathy go first.

23 JOHN NASSTROM: Can I just pause for one  
24 second. I'll be right back.

25 GERRY GARINO: Okay. While John is gone

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1 let me ask a question if I may.

2 JOHN LUBINSKI: Sure.

3 GERRY GARINO: This NRC super core scenario  
4 source term, that's what everyone's using? There's no  
5 other source terms coming out are there?

6 JOHN LUBINSKI: Right. We assume that the  
7 Unit 1 Reactor and the Unit 1 spent fuel pool are all  
8 intact with the containment and the pool is remaining  
9 cool.

10 GERRY GARINO: Now but it --

11 JOHN LUBINSKI: (Indiscernible) other  
12 source terms, let me just clarify that we're saying this  
13 from the standpoint of the super source term, we're calling  
14 this an extreme case situation so that we can meet the  
15 requirement, (b)(5) to do  
16 this extreme dose and how it would impact U.S. Territories.

17 We are looking internally here, one of our  
18 tasks at the NRC, and we need to coordinate with you  
19 guys, is we're trying to come up with a, what we're calling  
20 a realistic source term --

21 KATHRYN BROCK: To Japan.

22 JOHN LUBINSKI: -- to Japan --

23 KATHRYN BROCK: Tokyo.

24 JOHN LUBINSKI: -- so that we can come up  
25 with some doses internal to Japan and to Tokyo because

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1 the Embassy has asked us what kind of doses they could  
2 be expecting from Tokyo realistically, especially as  
3 the wind shifts in about 36 hours.

4 GERRY GARINO: Okay.

5 KATHRYN BROCK: So when we get that we'll  
6 send it.

7 JOHN LUBINSKI: Yes.

8 BRUCE WATSON: Let me just reiterate the  
9 overview here. We have six reactors there. Units 5 and  
10 6 are known to be or believed to be in complete cold  
11 shut down with power and the fuel pools are okay, so  
12 we don't consider those at all.

13 But we do have four reactors, Units 1, 2,  
14 3, and 4, and Unit 2 is the one who has the breach containment  
15 and the melted fuel. The others may have fuel damage  
16 in their cores, but they're contained. And Unit 4 is  
17 de-fueled so there's no fuel in there to melt.

18 So you have four reactors and you have four  
19 spent fuel pools. We believe that the spent fuel pools  
20 at Unit 1 and Unit 2 are intact and the fuel is being  
21 adequately cooled. Unit 3 and 4 are the spent fuel pools  
22 which also have the recently offloaded fuel and that's  
23 included in these source term runs. Okay?

24 You have the potential for eight source terms,  
25 three we believe are represent the extreme case, does

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1 that make sense?

2 GERRY GARINO: But because eight source  
3 terms you're saying one for each reactor, an extreme  
4 case, and a --

5 BRUCE WATSON: Yes. Each reactor has a  
6 reactor and a spent fuel pool.

7 GERRY GARINO: Oh, okay.

8 BRUCE WATSON: Okay.

9 GERRY GARINO: Now are they changing, for  
10 the individual reactors are they changing much at all?

11 BRUCE WATSON: No. We're not getting any  
12 information or any confirmation of any changes in those,  
13 that they remain receiving water or, they're receiving  
14 water and they're containments are intact.

15 So regardless of any core melt it's all  
16 bottled up and that contributes very little offsite dose  
17 if any compared with Unit 2 and the two spent fuel pools.

18 GERRY GARINO: Okay. So, and we started  
19 this discussion last night and I'm on the day shift,  
20 so a lot of this may have been settled over the night,  
21 but I would recommend that we have an informal process  
22 for, you know, (indiscernible). We can uniquely identify  
23 them by name so that --

24 BRUCE WATSON: We are. It's Unit 1 core,  
25 Reactor core --

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1 GERRY GARINO: -- we all know what we're  
2 talking about.

3 JOHN NASSTROM: Are you talking about  
4 getting mnemonic, Gerry, so that we have mnemonic for  
5 each one?

6 GERRY GARINO: Well, I mean, just for  
7 instance, you know, we're calling this the NRC super  
8 core scenario --

9 JOHN LUBINSKI: We suggest you take a look  
10 at the email that's coming to you and we think it's pretty  
11 clear on what we're talking about.

12 GERRY GARINO: Okay. So I'll go look at  
13 that, but I understand you had some other questions first.

14 BRUCE WATSON: Yes, Kathy, you had  
15 questions.

16 KATHRYN BROCK: I do have some questions.  
17 We were on the call with the NIT this morning and I  
18 don't think anybody from NARAC was on. We understand  
19 that in your analysis you're addressing pathways to Hawaii  
20 and Alaska, but we were wondering based on, I don't know,  
21 an update we saw yesterday, if you were taking a look  
22 at the other Pacific territories plus the U.S. West Coast?

23 JOHN NASSTROM: Yes.

24 KATHRYN BROCK: You're doing, so do you have  
25 a list that you could rattle off?

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1 JOHN NASSTROM: Yes, I do. It is Alaska,  
2 Hawaii, Midway, Wake Island, Southern California,  
3 Northern California, Oregon, and Washington State.

4 KATHRYN BROCK: Okay. Thank you.

5 JOHN NASSTROM: And, okay. You're welcome.

6 JOHN LUBINSKI: So to clarify, based on the  
7 source term we're talking about, you'll be coming up  
8 with some dose assessments for those areas, correct?

9 JOHN NASSTROM: Correct.

10 JOHN LUBINSKI: Okay. Great. Thank you.

11 KATHRYN BROCK: Perfect. That's wonderful.

12 Thank you.

13 JOHN NASSTROM: And by the way, early on  
14 there was an email that came with an NRC source term  
15 and imbedded in it, (b)(5) there  
16 was a request for a U.S. impact assessment. It came  
17 in a couple days ago. And --

18 BRUCE WATSON: Yes.

19 JOHN NASSTROM: -- I'll just let you know  
20 and it kind of got lost in the shuffle because requests  
21 for, our requests have to go through DOE. We're not  
22 an independent entity.

23 So I called back, we talked to some people  
24 and it turned out DOE had already distributed to the  
25 NRC the U.S. impact assessment. They just hadn't seen

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1 them. So they were, later on we talked to someone who  
2 said, "oh, yes, we do have those."

3 So if there's any issues about that I just  
4 want to, maybe you guys could help clarify that if there's  
5 misconceptions back there.

6 BRUCE WATSON: Yes. We know we were running  
7 behind on stuff from you guys because of other people's  
8 priorities.

9 JOHN NASSTROM: Well, no. Well --

10 BRUCE WATSON: Well (indiscernible) --

11 JOHN NASSTROM: -- no, no, no. The U.S.  
12 impact assessment, we can only do one U.S. impact  
13 assessment. DOE had already asked us to do it and that  
14 was being funneled across in inter-agency briefings from  
15 DOE that included the NRC. I just think it didn't get  
16 back down to the working level in the NRC EOC there.

17 And I guess just for future, you know, if  
18 you have a request for us to do something, everything  
19 goes through DOE because we're a DOE center.

20 BRUCE WATSON: Yes. We understand that.

21 JOHN NASSTROM: Okay. Good. (b)(5)

22 (b)(5)

23  
24 BRUCE WATSON: No, no, no --

25 JOHN NASSTROM: -- they said we asked for

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1 this and NARAC didn't deliver kind of thing.

2 JOHN LUBINSKI: We did run into a delay and  
3 I think it, and we agree with you. You were doing the  
4 dose assessments for Tokyo.

5 JOHN NASSTROM: Right.

6 JOHN LUBINSKI: And we understood that and  
7 that was good.

8 JOHN NASSTROM: Yes.

9 JOHN LUBINSKI: But we try to route all these  
10 calls with the PMT on it and the NIT folks so that we,  
11 that everybody understands what we're requesting so we  
12 get some feedback that what you're, I guess DOEs overall  
13 priority's going to be.

14 JOHN NASSTROM: Yes, but I don't think it  
15 was necessarily a priority thing. I mean we were doing  
16 both. We've been doing global impact assessments and  
17 U.S. impact assessments as well at the same time.

18 I just think it was the communication chains  
19 for the results --

20 JOHN LUBINSKI: Great. Okay.

21 JOHN NASSTROM: -- weren't all, you know,  
22 they have to go through the right channels. And I think

23 (b)(5)

24  
25 So, anyway, that's just so we, we'll have

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1 more of these out-washes till kingdom come.

2 JOHN LUBINSKI: Another question I had on  
3 this end and, you know, information and a question.  
4 We just got in from the U.K. what they were doing as  
5 far as some estimates on a worst case scenario super  
6 source term.

7 So I guess first question is, would you like  
8 us to provide that to you? Would that be of any help,  
9 information or is that just extraneous information --

10 BRUCE WATSON: We haven't even evaluated  
11 it yet.

12 JOHN LUBINSKI: We haven't evaluated it yet,  
13 so we could look at it and then just get back with you  
14 afterwards, would that be better?

15 JOHN NASSTROM: Yes, it doesn't hurt to  
16 forward it to NIT Ops and NARAC. I mean, you know, we're  
17 all getting flooded with email, but I think it'd be could  
18 to have a copy.

19 JOHN LUBINSKI: We'll get it over to you  
20 and we're looking at it.

21 JOHN NASSTROM: Yes, that's fine. I mean  
22 we're all getting this random stuff. I mean we get Japanese  
23 run, you know, predictions, we get, you know NOAA  
24 predications, you know, they're all coming in.

25 So I think it's useful to share that stuff

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1 just so we all know what's going on.

2 JOHN LUBINSKI: Okay. The other is based  
3 on the this, the U.K., Canada, and France has all asked  
4 for what we're doing with what we're now referring to  
5 as the super source term and then, of course, they're  
6 going to ask for our doses afterwards.

7 So the, at this point we're looking, I'm  
8 going to be going into our Executive Team to make sure  
9 they don't have a problem with us sharing this information,  
10 and the question is whether or not DOE would have any  
11 concerns with that?

12 JOHN NASSTROM: With?

13 JOHN LUBINSKI: Us sharing the assumptions  
14 we're using into a --

15 BRUCE WATSON: Yes.

16 JOHN LUBINSKI: -- super source term with  
17 Canada, France, and the United Kingdom.

18 BRUCE WATSON: Yes. We have a  
19 confidentiality agreement with their Government entities  
20 not to share it with anybody.

21 JOHN NASSTROM: Anyone? Even another  
22 Government Agency?

23 BRUCE WATSON: Well --

24 JOHN NASSTROM: I guess that's something  
25 your Executive Team has to resolve, right?

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1 JOHN LUBINSKI: We just want to make sure  
2 we're not, you know, from your standpoint, DOEs standpoint,  
3 there's not any --

4 BRUCE WATSON: Yes.

5 JOHN NASSTROM: Gerry, do you have a comment?

6 GERRY GARINO: I mean I think you could go  
7 ahead and share it and I'm, you know, after I get off  
8 the phone here I'll just verify that, but I would plan  
9 on it, but, you know, plan on sharing it if you do this  
10 regularly anyway.

11 But when that gets done, I mean, whatever  
12 source term you share, (b)(5)

13 (b)(5)

14  
15  
16 So it's important that, you know, we have  
17 this one formalized source term that if everybody is  
18 using it (indiscernible) --

19 JOHN LUBINSKI: You're kind of breaking up  
20 there.

21 GERRY GARINO: I'm just reiterating, you  
22 know, my earlier statement that if you, (b)(5)

23 (b)(5)

24  
25 JOHN LUBINSKI: Yes, yes. And what I would

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1 recommend at this point is as you're asking us questions  
2 about this and you're going to look at what we sent you  
3 and get back to us and talk more, we would definitely  
4 wait till after that, but it would be the exact same  
5 thing. We would not share anything different.

6           Whatever we share with them we're going to  
7 share directly with you at the same time.

8           GERRY GARINO: Okay. Before you share, let  
9 me go look at it and --

10           JOHN LUBINSKI: Give us a call back?

11           GERRY GARINO: Yes.

12           JOHN LUBINSKI: Hey, one last question and  
13 you guys may not be the right people, but the last AMS  
14 data we got was from about 24 hours ago. Do you know  
15 if there's any more recent data and if so is there any  
16 data on flyovers in the Tokyo area?

17           GERRY GARINO: I know there's been, I mean  
18 there's more data being taken. I don't know, I mean  
19 it was close to being done. I don't know where we stand  
20 on that.

21           JOHN LUBINSKI: Okay. Thanks. Just, you  
22 know, if you get it just let us know it's available so  
23 we can start to search for it. Appreciate it.

24           GERRY GARINO: Okay.

25           JOHN LUBINSKI: All right, thanks guys.

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1 We'll wait for your call back.

2 GERRY GARINO: Are you guys in CMweb? Can  
3 you just get it from there?

4 KATHRYN BROCK: You know what, we were  
5 supposed to get access to CMweb last night during the  
6 shift change when I left around 3:00, so I don't know  
7 the answer to that. I don't know if we got it.

8 JOHN LUBINSKI: We don't know if we're in  
9 yet.

10 KATHRYN BROCK: I'll double check to see.

11 JOHN NASSTROM: Yes, and actually just a  
12 quick comment on that because that's (indiscernible),  
13 that's the website associated with NARAC, that's our  
14 working website for every calculation we ever do, but  
15 we only share selectively to, you know, what's officially  
16 been released sort of for inter-agencies.

17 So we'll need, if you guys have access, and  
18 we can work on that, we'll use Gerry's and the DOE NITs  
19 guidance as to what, you know, what runs --

20 GERRY GARINO: I believe --

21 JOHN NASSTROM: -- we share with you. So  
22 --

23 GERRY GARINO: Okay.

24 JOHN NASSTROM: -- I guess that, we would  
25 really like to do that so that you guys can review what

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1 we're doing and I think we've been sort of emailing you  
2 stuff whenever we know we need to get your look at it.

3 KATHRYN BROCK: But would the email with  
4 the information on how to log on have come from NIT Ops?  
5 Where would it have come from?

6 JOHN NASSTROM: It probably would have come  
7 from (indiscernible, possibly "landl.gov"), it would  
8 come from one of our folks here because we manage that  
9 website. So --

10 KATHRYN BROCK: I'm doing a quick scan of  
11 the gazillion emails that I now have.

12 JOHN NASSTROM: Yes. I'm guessing it was  
13 --

14 KATHRYN BROCK: I think we got the --

15 JOHN NASSTROM: Yes. I think, you know,  
16 it's something I think it takes a little while get, you  
17 know, figure out how to do it and set up the group for  
18 the NRC and share it and get an account set up.

19 So it's probably, I'm guessing it's a work  
20 in progress and I think for expeditious stuff we'll just  
21 try to keep emailing you whatever we, you know --

22 KATHRYN BROCK: All right. Well it's been  
23 about 24 hours now since the request was put in and like  
24 I said I'm not seeing that we got an email that told  
25 us about access information.

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1                   So do you think that you could double check  
2 for us if --

3                   JOHN NASSTROM: Yes. We'll check on that,  
4 but even after the account's set up you'll see zero.  
5 So we have to get coordinated with the NIT on exactly  
6 what they want, you know, what, and you don't want every  
7 scenario we did believe me.

8                   So we have to, I know you probably want the  
9 current stuff at first and foremost and, you know, we  
10 send it through technical reviews through the DOE Home  
11 Teams, Technical Home Teams, and then the DOE NIT looks  
12 at it and then they give us a go ahead to share it with  
13 other groups. So --

14                   KATHRYN BROCK: Okay.

15                   JOHN NASSTROM: -- that's --

16                   KATHRYN BROCK: Now wait let me make --

17                   JOHN NASSTROM: -- why, it's just going to  
18 be a process is all I'm pointing out and --

19                   KATHRYN BROCK: All right. So who's doing  
20 what? Are you checking on that for us or do I need to  
21 call the NIT?

22                   JOHN NASSTROM: Yes. I will check on it,  
23 you know, we'll probably get to it in about a half an  
24 hour. We're trying to get the super core source term  
25 U.S. impact assessment out and --

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1 KATHRYN BROCK: Okay.

2 JOHN NASSTROM: -- it's all hands on deck.  
3 We have, just like you guys have --

4 KATHRYN BROCK: Yes, I know.

5 JOHN NASSTROM: -- fetch a limit on their  
6 staffing, so we have --

7 KATHRYN BROCK: Okay.

8 JOHN NASSTROM: -- a shift change coming  
9 so that means we'll for a short period we'll have extra  
10 staff while we overlap and transition. So I will check  
11 into that.

12 KATHRYN BROCK: All right. And I'll just  
13 leave it on my list of things to nag you guys about --

14 JOHN NASSTROM: Yes.

15 KATHRYN BROCK: -- two hours down the line.

16 JOHN NASSTROM: Please do.

17 KATHRYN BROCK: Okay.

18 JOHN NASSTROM: We don't mind nagging, you  
19 know why.

20 KATHRYN BROCK: Yes.

21 JOHN NASSTROM: Too many things to --

22 KATHRYN BROCK: It's easy to forget.

23 JOHN NASSTROM: -- keep track of at once,  
24 yes.

25 KATHRYN BROCK: All right. Thank you.

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Bye-bye.

JOHN NASSTROM: Okay. Thanks. Bye-bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 This is a recorded line.

5 NED MERCHANT (phonetic): Yes. This is Ned  
6 Merchant and I was trying to reach Scott Sloan.

7 KATHRYN BROCK: Scott Sloan is not here.

8 NED MERCHANT: He said that, is this --

9 KATHRYN BROCK: I mean he's in the area,  
10 but not at this line.

11 NED MERCHANT: Yes. Is this Laura Dudes?

12 KATHRYN BROCK: No. It's Kathy Brock.

13 NED MERCHANT: Okay. Yes, he said, he just  
14 told me to call. He said and ask for the Team Director,  
15 he said that is Laura Dudes, and I'm sitting right next  
16 to her.

17 KATHRYN BROCK: You're sitting next to  
18 Laura?

19 NED MERCHANT: He says he is.

20 KATHRYN BROCK: Okay. He might be and that's  
21 on the other side of this little wall. What was your  
22 name again?

23 NED MERCHANT: Ned Merchant and I'm with  
24 Bechtel.

25 KATHRYN BROCK: Can I get you to do something

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1 for me because I don't if he'll answer the phone.

2 NED MERCHANT: Sure, absolutely.

3 KATHRYN BROCK: Can you call back our  
4 Headquarters Operations Officer at (301) 816-5100 --

5 NED MERCHANT: Yes, got it.

6 KATHRYN BROCK: -- and ask for the Reactor  
7 Safety Team.

8 NED MERCHANT: The Reactor Safety Team?

9 KATHRYN BROCK: Yes.

10 NED MERCHANT: Okay.

11 KATHRYN BROCK: And I'll walk over. I'm  
12 about 10 steps away and I'll tell him that you're calling  
13 now.

14 NED MERCHANT: Thank you, ma'am.

15 KATHRYN BROCK: Okay.

16 NED MERCHANT: Bye-bye.

17 KATHRYN BROCK: Bye.  
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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team.

This is a recorded line.

GERRY GARINO: Hi. Is a John Lubinski there?

KATHRYN BROCK: Yes. He's in a conversation,  
can I tell him who's calling?

GERRY GARINO: This is Gerry Garino. I've  
talked to Kathryn. I've (indiscernible) --

KATHRYN BROCK: I'm Kathryn. Gerry Green  
(phonetic)?

GERRY GARINO: Kathryn.

KATHRYN BROCK: Yes.

GERRY GARINO: We just spoke on the phone  
--

KATHRYN BROCK: Yes.

GERRY GARINO: -- a little while ago with  
NARAC.

KATHRYN BROCK: Great.

GERRY GARINO: Okay. (b)(5)

(b)(5)

KATHRYN BROCK: Okay.

GERRY GARINO: That would probably take a  
Deputy's concurrence or something (indiscernible) and

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1 if you really want to do that well I'll support that.

2 KATHRYN BROCK: Okay.

3 GERRY GARINO: (b)(5) --

4 KATHRYN BROCK: All right. I'll pass that  
5 on and if somebody feels strongly about we'll work it  
6 back through.

7 GERRY GARINO: Okay.

8 KATHRYN BROCK: Okay.

9 GERRY GARINO: I've also looked at the source  
10 term documentation and there's a lot of it, lots of excel  
11 spreadsheets and stuff. It looks like most of what is  
12 in, you know, the high-level stuff is kind of like what's  
13 in the email.

14 We release 50 percent of the fuel in the  
15 spent fuel pool from Unit 3, you know, the Unit 4A, well  
16 anyway, I've asked NARAC to sort of summarize this.

17 KATHRYN BROCK: Okay.

18 GERRY GARINO: And we'll need to put it into  
19 a Word document that we can move up when we move up the  
20 NARAC plot as well and they're going to probably be  
21 contacting you here any minute (indiscernible), and ask  
22 why 50 percent and --

23 KATHRYN BROCK: Okay.

24 GERRY GARINO: Do we have a (indiscernible,  
25 possibly "generalization") on why we did it that way

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1 and it could be just I don't know, just (indiscernible)  
2 gas or whatever.

3 KATHRYN BROCK: Oh, okay. Yes, and I'm not  
4 the right person to tell you that. So you want to set  
5 up a call?

6 GERRY GARINO: How about, why don't, here's  
7 what I'm going to suggest, that NARAC get you the documents  
8 in 15 minutes. We'll give you some time to look it over  
9 and maybe we'll set up a call for say, 10:50 or something  
10 like that.

11 KATHRYN BROCK: Okay, at 10:50. So what  
12 you're sending us something to look at?

13 GERRY GARINO: Hopefully NARAC will be.

14 KATHRYN BROCK: Okay.

15 GERRY GARINO: I just asked them to start  
16 putting this into a document and have they released it,  
17 here's the source term, how did you release it and why.  
18 I said make sure get NRC concurrence on that.

19 KATHRYN BROCK: Yes.

20 GERRY GARINO: And so, and I said, you know,  
21 we need it soon, so hopefully they'll be sending you  
22 something.

23 KATHRYN BROCK: Okay.

24 GERRY GARINO: Okay.

25 KATHRYN BROCK: Why don't you call, so

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1 hopefully we'll get that and then we'll sort of plan  
2 on a call around 10:50.

3 GERRY GARINO: Right.

4 KATHRYN BROCK: Okay. And so why don't you  
5 just call us back on this line in like, what might work?

6 GERRY GARINO: Okay.

7 KATHRYN BROCK: Or is it --

8 GERRY GARINO: I called in through the  
9 operator. Is this your personal line here?

10 KATHRYN BROCK: There's two phones sitting  
11 on our table here, so this gets you to the Protective  
12 Measures Team.

13 GERRY GARINO: Is it, what's the number of  
14 this?

15 KATHRYN BROCK: You know what, I'm sorry,  
16 just call through the operator and ask to be connected  
17 to the Protective Measures Team.

18 GERRY GARINO: Okay.

19 KATHRYN BROCK: They'll get it. They'll  
20 figure it out.

21 GERRY GARINO: Okay. I didn't get your last  
22 name when we --

23 KATHRYN BROCK: Brock, B-R-O-C-K.

24 GERRY GARINO: And what about Bruce, what  
25 was his last name?

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1 KATHRYN BROCK: Watson.

2 GERRY GARINO: Okay. And he's the  
3 (indiscernible) science guy, what is he?

4 KATHRYNBROCK: Yes. We call him the science  
5 guy.

6 GERRY GARINO: Okay.

7 KATHRYN BROCK: All right.

8 GERRY GARINO: We'll be talking soon.

9 KATHRYN BROCK: Thanks.

10 GERRY GARINO: Thank you. Bye.

11 KATHRYN BROCK: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 BOB DAVIS: Hey, I was trying to reach Trish  
5 Milligan, but I think she worked last night. Is she  
6 around?

7 KATHRYN BROCK: No. She's not around.

8 BOB DAVIS: Maybe you can help me. My name  
9 is Bob Davis. I'm with DHS, Office of Health Affairs.  
10 Holly Harrington sent me her way. Our Secretary has  
11 asked us to find out what the KI stocks look like in  
12 each State.

13 And I was wondering before we tried to reach  
14 out to each State, I wanted to see if you all had that  
15 information or knew where we might find that information?

16 KATHRYN BROCK: I am by chance looking at  
17 a hunk of paper that is just sitting in front of me,  
18 don't know where it came from --

19 BOB DAVIS: All right.

20 KATHRYN BROCK: -- but it lists the, what  
21 looks like KI tablets in each of the States.

22 BOB DAVIS: Cool. Can I, if I send you an  
23 email can we get connected and see what you can share  
24 with me?

25 KATHRYN BROCK: Yes, I'll have to, it's not

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1 electronic so I'll have to, there must be a scanner  
2 somewhere. Email me and then send me your fax, too,  
3 maybe that's easier.

4 BOB DAVIS: I will. And I could also send  
5 somebody to get a copy if that was better. How big is  
6 that?

7 KATHRYNBROCK: Where are you? Are you here?

8 BOB DAVIS: I'm in D.C.

9 KATHRYN BROCK: Oh, okay. Oh, no, we'll  
10 get it to you electronically somehow.

11 BOB DAVIS: Okay. What's your name?

12 KATHRYN BROCK: I'm Kathy Brock.

13 BOB DAVIS: B-R-O-C-K?

14 KATHRYN BROCK: Yes. I'm at P-M-T-12 dot  
15 H-O-C at N-R-C dot gov.

16 BOB DAVIS: So that is P-M-T, Paul, Michael,  
17 Thomas, 12 dot H-O-C, Henry, Ocean, Charlie, at N-R-C  
18 dot gov.

19 KATHRYN BROCK: Yes.

20 BOB DAVIS: Okay, great. My name's Bob Davis.  
21 I'll shoot this off to you.

22 KATHRYN BROCK: All right. Thanks.

23 BOB DAVIS: Bye.

24 KATHRYN BROCK: Bye.  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team.

4 This is a recorded line.

5 MICHAEL DILLON: Hello. My name is Michael  
6 Dillon. I'm calling from NARAC.

7 KATHRYN BROCK: Hey.

8 MICHAEL DILLON: Hello. I'm about to have  
9 a conference call it's my understanding with you folks  
10 and some of the NIT folks about the source term.

11 KATHRYN BROCK: You know, we never got  
12 whatever page we were supposed to get.

13 MICHAEL DILLON: Okay. I know I just sent  
14 out to your box very recently a Appendix which, frankly,  
15 is just a summary of --

16 KATHRYN BROCK: Okay. Hang on real quick,  
17 okay?

18 MICHAEL DILLON: I will resend it or do you  
19 want to confirm that you have it?

20 KATHRYN BROCK: It doesn't matter. So is  
21 this the conference call or do we need to call another  
22 line?

23 MICHAEL DILLON: This will be the conference  
24 call is my understanding.

25 KATHRYN BROCK: All right. Let me grab the

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1 guys.

2 MICHAEL DILLON: It's kind of fuzzy at this  
3 point though.

4 KATHRYN BROCK: I'm looking at a bunch of  
5 empty chairs around me.

6 MICHAEL DILLON: Oh, I got (indiscernible).

7 KATHRYN BROCK: All right. Hang on.

8 MICHAEL DILLON: (Indiscernible).

9 KATHRYN BROCK: -- and I'll grab the right  
10 guy.

11 I'm going to put him on speaker.

12 BRUCE WATSON: Okay.

13 KATHRYN BROCK: Are you there?

14 MICHAEL DILLON: I am still here.

15 KATHRYN BROCK: Okay. Sorry. We're just

16 --

17 MICHAEL DILLON: Absolutely. Did you  
18 receive the --

19 KATHRYN BROCK: No.

20 MICHAEL DILLON: No. I will resend them  
21 to you right now. Can I put you on hold?

22 KATHRYN BROCK: Absolutely.

23 BRUCE WATSON: (Indiscernible, possibly  
24 "Casper") received something there.

25 KATHRYN BROCK: Oh, maybe --

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1 BRUCE WATSON: Maybe not. From Mike Dillon?  
2 KATHRYN BROCK: That's what we want, yes.  
3 BRUCE WATSON: He's looking at the numbers  
4 now.  
5 KATHRYN BROCK: We're on a conference call  
6 with Mike Dillon now. Twelve.  
7 BRUCE WATSON: He's doing a check of the  
8 spreadsheet --  
9 KATHRYN BROCK: All right.  
10 BRUCE WATSON: -- of what we sent and what  
11 they added up.  
12 KATHRYN BROCK: All right. Well he's going  
13 to want to talk about it now.  
14 BRUCE WATSON: Okay.  
15 MICHAEL DILLON: I still have to collect  
16 a few folks on my side (indiscernible, possibly "around").  
17 I just want to make sure you got everything first.  
18 KATHRYN BROCK: You know what, and you sent  
19 it to --  
20 MICHAEL DILLON: The PMT.  
21 KATHRYN BROCK: You did it. We've got it,  
22 we just need to get it within here (indiscernible).  
23 MICHAEL DILLON: Okay. I will start  
24 collecting folks then.  
25 KATHRYN BROCK: All right.

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1                   MICHAEL DILLON: I'm going to put you on  
2 speaker. John Nasstrom has also joined us.

3                   KATHRYN BROCK: Hey there.

4                   JOHN LUBINSKI: Hey guys. John Lubinski,  
5 just joined the call. I'm going to put you on mute for  
6 a minute. I got something I need to talk to these guys  
7 about real quick and we'll be right back in about 30  
8 seconds.

9                   JOHN NASSTROM: Okay. Great. Thank you.

10                  JOHN LUBINSKI: Hey guys. Sorry to put you  
11 on mute there. We just got new direction here at NRC  
12 with respect to this super source term and it's going  
13 to change all the information we gave you.

14                  MICHAEL DILLON: Hold on one second I want  
15 to get a couple folks around to hear all this.

16                  JOHN LUBINSKI: Okay.

17                                You guys are still gathering folks, correct?

18                  MICHAEL DILLON: That is correct. We're  
19 running around like little chickens.

20                  JOHN LUBINSKI: Thanks, appreciate it.  
21 We'll have you back on mute as well. Thanks.

22                  JOHN NASSTROM: Okay. This is John Nasstrom  
23 at NARAC. I'm going to conference in one other person  
24 in another location, so if we lose you we'll call you  
25 right back.

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1 JOHN LUBINSKI: Thanks, appreciate it.  
2 We'll keep you on mute.

3 GERRY GARINO: Hello?

4 JOHN NASSTROM: Gerry, John Nasstrom here,  
5 can you hear us? Hello?

6 GERRY GARINO: Sounds good to me.

7 JOHN NASSTROM: Okay, good. So we have,  
8 NRCs on line, but they're on mute. They're collecting  
9 people so we're standing by.

10 GERRY GARINO: Let me ask you a question  
11 while --

12 JOHN NASSTROM: Okay.

13 GERRY GARINO: The results have a range of .5  
14 to 35 for Alaska for a one-year-old child. Is that just  
15 a range across the state, is that it?

16 MICHAEL DILLON: Yes. That is based on  
17 various locations sampled in that State.

18 GERRY GARINO: All right. I'll be right  
19 back.

20 MALE PARTICIPANT: Is anybody on?

21 MICHAEL DILLON: John?

22 JOHN LUBINSKI: Yes, we're here guys.

23 GERRY GARINO: What, you had, we still need  
24 an uncertainty in (indiscernible) this result.

25 JOHN LUBINSKI: I responded. This is John

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1 Lubinski at NRC. I don't know if I was the "John" were  
2 looking for, but NRCs, we've got our people here if you  
3 guys are ready.

4 MICHAEL DILLON: Okay.

5 GERRY GARINO: Okay. Sorry, this is Gerry  
6 by the way at DOE with Matt Kizer (phonetic). Who do  
7 we have there at NRC, John, besides you?

8 JOHN LUBINSKI: John Lubinski, Kathryn Brock,  
9 and Bruce Watson.

10 GERRY GARINO: Okay. Nasstrom, are you on?

11 JOHN NASSTROM: Yes, from NARAC it's John  
12 Nasstrom, Michael Dillon, and Maureen Alai.

13 GERRY GARINO: Okay. So, John Nasstrom,  
14 I'll use last names to avoid confusion. One of the things  
15 we're going to need I asked you about earlier was that  
16 --

17 JOHN LUBINSKI: Is this Gerry?

18 JOHN NASSTROM: Yes.

19 JOHN LUBINSKI: Hey, Gerry, can you hold  
20 a second for us I want to drop back a second. You know,  
21 I interrupted this call you guys were having --

22 KATHRYN BROCK: We just started.

23 JOHN LUBINSKI: Okay, just started, but as  
24 a follow up to our call earlier on the data that was  
25 provided and what, I'd like to get to that in a minute,

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1 but I want to, we had a change in request here, let me  
2 say that, is our Executive Team has directed us to work  
3 with you to do another run in addition to what you're  
4 doing now.

5 And that is for us to provide a different  
6 super source term to you. We provided something that  
7 accounted for two spent fuel pools and one reactor.  
8 They want us to account for all three reactors and all  
9 four spent fuel pools in a worst case scenario where  
10 we're losing containment for all three units and having  
11 core damage in all three units and having fuel damage  
12 in all four spent fuel pools.

13 So we need to run a source term for that  
14 and coordinate that new source term with you to get another  
15 run. It's going to take us a couple hours to get that  
16 new source term for you.

17 So I guess the question is, how far along  
18 are you on the current source term and in running data?

19 Would it be best to abort this one and just wait and  
20 go with the new one or should you complete the work you're  
21 doing now since you're already, you know, some part through  
22 it?

23 We'd have that data and then we could give  
24 you the next set of data as you finish?

25 GERRY GARINO: What we need to do is finish

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1 this one, you know, get it in a box, wrap it up, put  
2 a ribbon on it and say this is done, because this is  
3 moving up and, I mean, the next one that comes along,  
4 you know, we'll start the whole process again.

5 JOHN LUBINSKI: Okay. Well with that what  
6 I'm going to do is let these tech guys talk to you about  
7 what direction you have and give a heads up to you that,  
8 and if there's someone we need to, if we need to have  
9 our Executive Team talk to someone at your Organization  
10 at a higher level, we want to make sure you guys are  
11 okay with completing running these numbers but then change  
12 our super source term to be something more based on three  
13 units and four spent fuel pools.

14 So if you, and what I'd ask is if you have  
15 a, if your management has a concern with doing that and  
16 calling that the super source term, if you could call  
17 me back and let me know and we'll get our appropriate  
18 managers on the line together.

19 Does that sound right, John?

20 GERRY GARINO: We may have to do that, but  
21 just let me suggest that this new thing get a different  
22 name. We're not going to call it the super source, it's  
23 got to have a different name so that there's no confusion  
24 --

25 JOHN NASSTROM: Can we call it super core

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1 2 or something? Because if we call it, we're referring  
2 to the current one as super core.

3 JOHN LUBINSKI: Let's call this one super  
4 core, we'll stick with that, and then the next one what  
5 we'll call is, because there will be, no, we'll call  
6 it worst case, four units.

7 GERRY GARINO: Okay. Where did this request  
8 come from? Through your Executive Team?

9 JOHN LUBINSKI: Our Executive Team who was

10 (b)(5)  
11  
12  
13  
14  
15  
16  
17  
18  
19

20 GERRY GARINO: Okay.

21 JOHN LUBINSKI: But they believe that's  
22 what's needed (b)(5) . And I'll  
23 let you guys talk about super source now and, John, if  
24 you're management has a concern with going further with  
25 this worst case source four units give me a call back

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1 and we'll talk about getting them together.

2 JOHN NASSTROM: Well actually you have our  
3 management on the line, that's Gerry Garino, so we're  
4 connected.

5 JOHN LUBINSKI: And you guys are okay with  
6 this?

7 GERRY GARINO: Um --

8 MICHAEL DILLON: Hey.

9 JOHN LUBINSKI: Okay. Thank you,  
10 appreciate it.

11 JOHN NASSTROM: I think, wait a minute.  
12 I'm guessing Gerry has to go up his chain with this too,  
13 right Gerry?

14 GERRY GARINO: I do have to go up my chain,  
15 but I'm not going to do that now because I've got to  
16 get the super source done.

17 BRUCE WATSON: Okay. Well let's talk about  
18 super source then.

19 JOHN LUBINSKI: Good. Thanks guys. I'll  
20 let you guys talk about that.

21 BRUCE WATSON: I'm looking at Michael  
22 Dillon's email of 10:44 this morning. And we did a real  
23 quick review of the critical nuclides with the cesiums  
24 and iodines and we think everything lines up really well.

25 We assumed you were able to sum them up in

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1 the fourth column, fifth column. The only comment we  
2 really have is that on your spreadsheet the isotope mix  
3 and release quantity under Unit 3, the Unit 3 spent fuel  
4 pool, change that from 100 percent to 50 percent to reflect  
5 what's in the cover letter of the source term.

6 MICHAEL DILLON: Okay. So --

7 BRUCE WATSON: An editorial thing.

8 MICHAEL DILLON: Okay. So I will edit it,  
9 right now it says NRC filename, because that was a reference  
10 to the explicit file you provided. I'm going to change  
11 that to --

12 BRUCE WATSON: That really, we sent ours  
13 back (indiscernible) --

14 MICHAEL DILLON: Okay, yes.

15 BRUCE WATSON: -- because only half of it  
16 went out. Just change that to 50 percent.

17 MICHAEL DILLON: That does include the 50  
18 percent release fraction in those numbers.

19 BRUCE WATSON: Okay. And then that's pretty  
20 much it. Like I said we did confer what we sent you  
21 to the iodine and cesium source terms and they line up  
22 really nicely.

23 GERRY GARINO: I have some questions. So,  
24 let me start at the top, we see Unit 2, 33 percent meltdown  
25 with no containment.

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1 BRUCE WATSON: Right.

2 GERRY GARINO: So how did we pick 33 percent?

3 BRUCE WATSON: It was based on some, I'll  
4 say some data from the site where they gave us different  
5 times and some of them we had to speculate on where they  
6 had either an uncovered partial core and they did report  
7 at one time they thought they had lost the entire core  
8 for a short period of time.

9 Someone here or at DOE, I think, crunched  
10 some numbers and said it was 33 percent.

11 GERRY GARINO: Okay. So this is, I mean  
12 these are not RAD measurements, these are sort of reactor  
13 measurements, water levels, temperatures, things like  
14 that?

15 BRUCE WATSON: Yes. Things that we could  
16 derive to try and put something reasonable together.  
17 Now whether it's reasonable or not in the long run, we'll  
18 find out, but it was based on the available data and  
19 what we could do with it, and trying to figure out what  
20 the amount of core damage was.

21 GERRY GARINO: Okay. That's fine. Let's  
22 get a statement in this document, the source term document,  
23 that says that. And so just let me pull one string,  
24 and it says "based on available data."

25 We're not talking deposition data we're

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1 talking --

2 BRUCE WATSON: Right.

3 GERRY GARINO: -- talking reactor --

4 BRUCE WATSON: Reactors status or --

5 GERRY GARINO: Like that, okay.

6 BRUCE WATSON: Okay.

7 GERRY GARINO: Based on data on reactor  
8 status provided from the plant this is our best estimate  
9 of how much of the core would have melted down.

10 BRUCE WATSON: Yes.

11 MICHAEL DILLON: Yes.

12 GERRY GARINO: Okay. We need a statement  
13 like that in there. And then we need to say this, of  
14 that 33 percent meltdown you assume 75 percent of that  
15 or 25 percent of the total core is released, is that  
16 --

17 BRUCE WATSON: Right.

18 GERRY GARINO: Why did you do that?

19 BRUCE WATSON: We assumed that some, and  
20 again, it's just speculation on our part, we assumed  
21 that since the containment breach would result in the  
22 path out of the reactor would result in some deposition  
23 along the way, just trying to factor in some of these  
24 particulates and stuff may also, you know, plate out  
25 or something that the total release wouldn't happen.

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1 But it's, again, it's just experience factor  
2 I guess I'll call it added in rather than speculation,  
3 but we assumed that, you know, not 100 percent of the  
4 25 percent of the 33 percent release would actually escape.

5 GERRY GARINO: Okay. Any you --

6 BRUCE WATSON: And it --

7 GERRY GARINO: I didn't, I mean I'm just  
8 asking --

9 BRUCE WATSON: Yes, I was just saying that  
10 I wish we had a good plant number to base that on, but  
11 we don't.

12 GERRY GARINO: Why not 5 percent, why 75  
13 percent?

14 BRUCE WATSON: Can you ask the question  
15 again?

16 GERRY GARINO: So of the 33 percent that  
17 melted down you're assuming 75 percent of that got  
18 released?

19 BRUCE WATSON: I'm not sure that's right.  
20 Hold on a second.

21 KATHRYN BROCK: All right, you know what  
22 while Bruce is looking that up, this is Kathy Brock,  
23 I just had a whisper from John Lubinski that our Executive  
24 Team is pressuring us to do the new source term as a  
25 first priority.

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1           So I just wanted to get a clear picture of  
2 where you guys are with this super core and how much  
3 longer you think it would take so we can decide if we  
4 just pull you off of it or not.

5           GERRY GARINO: Okay. We need to document  
6 what has been done and we need to document it in a way  
7 that when results go up the chain to decision makers  
8 they can look at that and I don't believe we have the  
9 documentation done now. So --

10          KATHRYN BROCK: So you're just trying to  
11 fill in the blanks because the runs are already done  
12 and everything right?

13          GERRY GARINO: The runs are done. We've  
14 got your source term, now it's just a matter of documenting  
15 it otherwise tomorrow, I mean these questions are going  
16 to come somewhere along the line and we should try to  
17 document them now.

18          KATHRYN BROCK: I agree.

19          BRUCE WATSON: Okay. We don't disagree with  
20 you.

21          KATHRYN BROCK: Okay. So it sounds to me  
22 like we should just finish this up, it shouldn't, how  
23 long do you think it'll take once you get off the phone  
24 with us?

25          GERRY GARINO: I mean I really needed this

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1 by 11:00 so I mean it can't take all day.

2 BRUCE WATSON: Yes. No, you mean your answer  
3 to the current question?

4 GERRY GARINO: Yes.

5 BRUCE WATSON: Okay. Well I'm trying to,  
6 all right, well I'm back, let me answer your question  
7 as I recall the way --

8 KATHRYN BROCK: Go ahead then.

9 BRUCE WATSON: -- what you asked about it.  
10 We assumed that 33 percent of the core was melted and  
11 that would result in a source term of "X," what we assumed  
12 that was 25 percent of that core, instead of 33 percent  
13 activity would be released.

14 In other words, the reduction from the plate  
15 out or hold up would be about 7 percent.

16 GERRY GARINO: Okay. I don't --

17 BRUCE WATSON: Does that make better sense?

18 GERRY GARINO: I don't, so let me repeat,  
19 let me tell you how I understand it and you correct me  
20 where I'm wrong. Thirty-three percent of the core melted,  
21 25 percent of the core was released, which means that  
22 25 divided by 33 is 75 percent of what melted was released.

23 BRUCE WATSON: No. We assumed that 33  
24 percent of the activity of the core was melted.

25 GERRY GARINO: Okay.

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1 BRUCE WATSON: Of that 33 percent, 25 percent  
2 of the core inventory was released.

3 GERRY GARINO: Twenty-five percent of the  
4 melted?

5 BRUCE WATSON: Yes. No, 25 percent, yes,  
6 in other words if 33 percent was 100 percent released,  
7 okay, then the amount released would be close to 90 percent  
8 of that would be released.

9 I don't know what seven divided by 33 is,  
10 but that's the amount that we thought was assumed to  
11 be either retained, held up, or plated out somewhere  
12 in the --

13 MICHAEL DILLON: All right. This is Mike  
14 Dillon. Can I ask one quick way I might be able to clarify?

15 There's a term called release fraction, which assuming  
16 the of what is at risk, which is your 33 percent of the  
17 core, the fraction of that material that makes it out  
18 into the air.

19 I am interpreting at the moment your statement  
20 to say, 25 percent is the release fraction. Twenty-five  
21 percent of the melted component made it to the air.  
22 Is that a correct statement?

23 BRUCE WATSON: No.

24 MICHAEL DILLON: Okay. Thank you. Please  
25 clarify it then.

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1 BRUCE WATSON: Yes, okay. What we're saying  
2 is, is my understanding of this, is that 25 divided by  
3 33 would be the fraction that was released to the air.

4 GERRY GARINO: Okay.

5 BRUCE WATSON: I don't have a calculator  
6 in front of me, but that would probably about --

7 MICHAEL DILLON: So just to clarify, 25  
8 percent of the original core made it to the air.  
9 Twenty-five percent of the original core made it to the  
10 air?

11 BRUCE WATSON: Yes, of the original core,  
12 meaning the whole core would be 100 percent.

13 MICHAEL DILLON: Yes.

14 BRUCE WATSON: Okay. So we had a 7 percent  
15 reduction in the total core was plated out or held up  
16 or whatever by whatever means.

17 MICHAEL DILLON: Understood. So just to  
18 restate what I said and make sure I'm dead correct, the  
19 total quantity of the original core that made it to the  
20 air is 25 percent?

21 BRUCE WATSON: Right. Assuming --

22 MICHAEL DILLON: And, sorry, just period.  
23 I mean however you got there, is that correct?

24 BRUCE WATSON: Yes.

25 MICHAEL DILLON: The second element on the

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1 table is 33 percent of the entire core was melted?

2 BRUCE WATSON: Right.

3 MICHAEL DILLON: Independent statements,  
4 essentially.

5 BRUCE WATSON: Yes. I, yes. So --

6 GERRY GARINO: And we can, to follow that  
7 up, that would mean and I don't know who was talking  
8 about release fraction, that would mean the release  
9 fraction which is what percentage of the melted was  
10 released, would be 75 percent and I got that by taking  
11 25 divided by 33.

12 BRUCE WATSON: That's what I understand,  
13 yes. And that is what 70-, I don't have a calculator  
14 in front of me, but that's 70 or 80 percent, somewhere  
15 in there.

16 GERRY GARINO: Now there's a new number which  
17 I don't understand, 7 percent, where's that coming from?

18 BRUCE WATSON: Not 7, 8 percent. That would  
19 be 33 minus 25.

20 GERRY GARINO: Okay, fine.

21 BRUCE WATSON: It's been a long number of  
22 days.

23 GERRY GARINO: Yes, I understand.

24 BRUCE WATSON: Okay. Yes, so basically  
25 we're saying there's an 8 percent reduction for whatever

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1 reason.

2 GERRY GARINO: Okay. And why, is that a  
3 typical reduction, 8 percent?

4 BRUCE WATSON: This was done by our night  
5 shift and I didn't get a chance to question them on that  
6 one. I can only tell you what's in the run.

7 GERRY GARINO: Okay. Who was, was it a  
8 Livermore (phonetic) guy who asking about release fraction.  
9 I didn't recognize the voice. Who was that?

10 MICHAEL DILLON: This is Michael Dillon.

11 GERRY GARINO: Okay, Michael. Do you, now  
12 that we have these things clarified, that actually 25  
13 percent of the core was released, is that what you actually  
14 put into the NARAC (indiscernible)?

15 MICHAEL DILLON: I actually don't, what  
16 we're talking about is essentially (indiscernible,  
17 possibly "METI") data, text description. What I put  
18 into the NARAC run is the output of the RASCAL files  
19 that they sent --

20 BRUCE WATSON: Right.

21 MICHAEL DILLON: -- with some minor  
22 massaging that we coordinate it and have explicit approval  
23 from all parties on what it, the final answer is.

24 BRUCE WATSON: So those spreadsheets that  
25 we sent to NARAC reflect this release of 25 percent from

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1 the core and I guess the release fraction is --

2 MICHAEL DILLON: Twenty-five percent.

3 BRUCE WATSON: -- whatever it is, with that  
4 8 percent reduction.

5 MICHAEL DILLON: Agreed. So, Gerry, just  
6 to clarify again, all of this discussion does not change  
7 any of the runs that we did, it just changes how they  
8 are described and defended.

9 GERRY GARINO: I agree 100 percent.

10 BRUCE WATSON: Okay.

11 GERRY GARINO: I just want to (indiscernible)  
12 so that we get the description right.

13 MICHAEL DILLON: Agreed.

14 GERRY GARINO: I don't want to --

15 MICHAEL DILLON: I just want to make sure  
16 we're clear on that one point.

17 GERRY GARINO: I don't want to say that 25  
18 percent of the core was released when actually it would  
19 be (indiscernible) did was 25 percent of 33 percent which  
20 is a much smaller number. It's, you know, it's 8 percent  
21 or something.

22 BRUCE WATSON: Yes. It's a lower number.

23 But that's what's our --

24 GERRY GARINO: (Indiscernible) NARAC that's

25 --

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1 BRUCE WATSON: -- the source term numbers  
2 fo the nuclides reflect.

3 GERRY GARINO: In one of these documents  
4 that NRC sent, and I don't know the title of this file,  
5 but it says "case summary, event type, location, reaction,  
6 parameter," things like that.

7 There's some data in here I think we need  
8 to get into the source term description. You know, the  
9 reactor power, assuming the fuel burn up of 33,000 megawatt  
10 days and, you know, et cetera.

11 That's probably the most important thing  
12 that we want to get in there, what the assumed burn up  
13 was. And it looks like we assume that the core wasn't  
14 covered for one hour, am I reading that correctly? Core  
15 uncovered at six, 0600, core recovered at 0700?

16 Any comment?

17 BRUCE WATSON: Yes. Our model has those  
18 kinds of dates in there I think and I'm sure your model  
19 does, too, those times? But we did make some assumptions  
20 on that based on someone's calculations.

21 GERRY GARINO: Okay. Can I, now I'm just  
22 going to reveal my ignorance so I apologize for that,  
23 but when this core melts how does cesium and uranium  
24 and those things get into the air?

25 BRUCE WATSON: As these things melt they

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1 create heat and pressure and that heat and pressure forces  
2 these materials and gases and particulates into the  
3 containment and then the containment is broken so it  
4 goes into the air.

5 And that's why we assumed that some of it  
6 had to be lost during the transition from in the core  
7 to out of the core into the environment.

8 GERRY GARINO: Okay. I mean I understand  
9 that like the noble gases can be released, but how does,  
10 you know, and the plutonium, I mean if there's no fire  
11 or something how is it being (indiscernible, possibly  
12 "rostered")?

13 BRUCE WATSON: It's just what's built into  
14 our model and we're assuming it all gets released.

15 GERRY GARINO: Okay.

16 BRUCE WATSON: We don't have any other data  
17 at this point to counter that. I'm trying to get some  
18 more plant data that may reflect better conditions and  
19 I'm hoping we have them for the new runs we're going  
20 to run.

21 GERRY GARINO: Okay.

22 BRUCE WATSON: Okay.

23 GERRY GARINO: Okay. So that I think we  
24 need description as we just talked about on the phone.  
25 We need that into the document. NARAC, you own the

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1 document, can you get this data into it?

2 MICHAEL DILLON: So I want to be very clear  
3 on what data you want in this document and if possible  
4 it would be great if the NRC could explicitly provide  
5 that data.

6 I think they'll provide a better answer than  
7 I will try to prospect.

8 BRUCE WATSON: We can send you an email.

9 MICHAEL DILLON: Yes. So if I can get  
10 explicitly from you, Gerry, what exactly you need.

11 GERRY GARINO: Some documentation that NARAC  
12 already sent. Sorry, that NRC already sent. And it was  
13 in an email, I forget when it came in, sometime probably  
14 early this morning.

15 BRUCE WATSON: Yes, it was 4:00 this  
16 morning-ish, our time.

17 GERRY GARINO: It's a whole bunch of CSV  
18 files and a whole bunch of Word files.

19 MICHAEL DILLON: I have that right in front  
20 of me.

21 GERRY GARINO: Open one of the Word files  
22 and it starts out, at the very top it says "case summary"

23 --

24 MICHAEL DILLON: Correct. I have that in  
25 front of me.

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1 GERRY GARINO: -- and so I'm looking at the  
2 one for Fukushima Unit 2 --

3 MICHAEL DILLON: Yes.

4 GERRY GARINO: One of these things is reactor  
5 parameters --

6 MICHAEL DILLON: Yes.

7 GERRY GARINO: I would put in the reactor  
8 power. I would put in the average fuel burn up. I would  
9 put in the time of shut down and the time core uncovered.

10 I mean because there's, I presume you account for the  
11 decay in that time, and I would put in the length of  
12 time that you assumed the core was uncovered.

13 MICHAEL DILLON: Okay. Let me repeat that  
14 back to you. Reactor power, fuel burn up, shut down  
15 time, time core was uncovered.

16 GERRY GARINO: Right.

17 MAUREEN ALAI: Fuel (indiscernible) --

18 GERRY GARINO: And let's see what else is  
19 in here. I think we should, it says here "assumption,  
20 description is total failure of containment."

21 Soweshould, andwhatever it says "unfiltered,  
22 via direct unfiltered pathway." Let's get a statement  
23 like that in there.

24 MICHAEL DILLON: Okay. Hold on one second,  
25 let me capture this. I was noted by Maureen when I called,

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1 you also wanted average fuel burn up, is that correct?

2 GERRY GARINO: Yes. Yes, average fuel burn  
3 up. Yes.

4 MICHAEL DILLON: Average fuel burn up, then  
5 we have a statement with respect to, under release pathway  
6 description, "total failure of containment, as well as  
7 the type, BWR release to your drywell via direct unfiltered  
8 pathway."

9 Is that correct?

10 GERRY GARINO: Yes. Okay. I gotta go brief  
11 somebody but Matt's going to take over here I hope and  
12 --

13 MATT KIZER: So Gerry's just got to go give  
14 an update on I guess where we stand with this, getting  
15 this document in terms of the source term description.

16 So the one thing he had asked about earlier  
17 that I don't think we've covered yet is at NARAC, the  
18 rate at which these isotopes are released, is that release  
19 really just over the 1-hour period that it spoke of the  
20 being uncovered?

21 MICHAEL DILLON: No. For the runs that we  
22 have done, and that is in this Appendix that you have  
23 and actually the main document as well, the total curies  
24 released in that Appendix are being released over a 24-hour  
25 period at a constant rate.

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1 MATT KIZER: At a constant rate, that was,  
2 I think was the question.

3 MICHAEL DILLON: So that, I will add the  
4 phrase constant rate if it's not already there. Does  
5 that meet your requirement there?

6 MATT KIZER: Yes, I believe so.

7 MICHAEL DILLON: So then in summary, I have  
8 a list of parameters taken from the case summaries that  
9 are already provided by NRC and I am going to insert  
10 those parameters into the Appendix document that's already  
11 been inserted for each of the various scenarios.

12 MATT KIZER: Okay.

13 MICHAEL DILLON: That plus the comment about  
14 constant rate, does that meet your needs for the  
15 description of the super scenario?

16 MATTKIZER: That's (indiscernible) for Unit  
17 2. I think there are other questions concerning the  
18 spent fuel pools.

19 MICHAEL DILLON: Okay. Hold on one second  
20 then. NRC, do you agree? Do you require any additional  
21 information or any modifications to what we've just said  
22 as for a description?

23 BRUCE WATSON: I don't think so. The only  
24 thing I'm going to point out with the spent fuel pools,  
25 and which I know is your next topic, is that RASCAL models

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1 these things for the first 48 hours.

2 MICHAEL DILLON: We have that phrase in our  
3 document --

4 BRUCE WATSON: Okay.

5 MICHAEL DILLON: -- about that. Again, I  
6 will submit, please put any comments about that, it should  
7 be in the document you have. If it's not, just bug me  
8 and I will get you the phrase to make sure you are 100  
9 percent supportive.

10 BRUCE WATSON: Okay.

11 MICHAEL DILLON: So with respect to the  
12 reactor, Unit 2, are there any other elements required?

13 BRUCE WATSON: No. We're going to start  
14 working on what we think is the next direction from the  
15 White House and our ET.

16 MICHAEL DILLON: So let's open up the spent  
17 fuel ones then. Matt, I believe it's your show.

18 MATT KIZER: All right. So I think Gerry's  
19 question was for Unit 3, the 50 percent spent fuel release  
20 --

21 MICHAEL DILLON: Yes.

22 MATT KIZER: -- that, the 50 percent, is  
23 that based on the fact that at some point 50 percent  
24 of the cooling the water was thought to be missing?

25 BRUCE WATSON: Yes.

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1 MATT KIZER: Okay.

2 BRUCE WATSON: It uncovered half of the fuel,  
3 so therefore half of it would have melted.

4 MATT KIZER: All right. I think it's  
5 probably for this document was explicitly stating that's  
6 where the 50 percent came from?

7 BRUCE WATSON: Gee, I think it was the  
8 information from, I guess some information from the site  
9 and others, and then we also have the 100, I think we  
10 had a reading of 100 rem per hour or 10 rem per hour  
11 at the site next to the Unit 3 reactor building which  
12 we believe to be the sky shine.

13 But we don't know explicitly where these  
14 measurements were made, but we don't have any explanation  
15 for them other than where they are and what we believe  
16 may result from the pool becoming uncovered.

17 MATT KIZER: Okay. Hold one moment, Gerry  
18 just came back, so I just want to give him a quick update.

19 GERRY GARINO: Okay. So that was just the  
20 Under Secretary saying where are we on this so I told  
21 him we've have them within an hour. So we got the Reactor  
22 2 stuff done.

23 I think if somebody can take a, sort of go  
24 through and put in similar stuff for the spent fuel,  
25 we've, 50 percent because of the water, you know, and

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1 just get some of that data in there and so we have a  
2 document to talk about and let's convene again in 20  
3 minutes. Is that reasonable?

4 MICHAEL DILLON: This is Mike Dillon. Who's  
5 going to take the shot at identifying the spent pool  
6 parameters?

7 GERRY GARINO: The spent fuel parameters,  
8 I think we just need to say how long they were out of  
9 the reactor for. Batches in pool, what is the number  
10 of batches?

11 BRUCE WATSON: Okay, for Unit 3 it is one  
12 batch is one-third of the core which is (b) fuel bundles  
13 and it was believed to, they just came out approximately  
14 105 days ago. It's probably a few more days now since  
15 we heard that. Okay, that's Unit 3.

16 Unit 4 was de-fueled, the actual reactor  
17 core was de-fueled, therefore the Unit 4 spent fuel pool  
18 has in it (b)(4) recently expended fuel bundles from the  
19 core and those were removed from the reactor core  
20 approximately 30 days ago.

21 And that is three batches of a refuel load  
22 and that's the way our computer handles it. It calls  
23 it a batch is one-third of the core and so that would  
24 be three batches of fresh fuel which would be (b) fuel  
25 bundles.

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1 GERRY GARINO: Okay. So I'm looking at your  
2 documents, for Unit 3 you have three batches in the pool  
3 --

4 BRUCE WATSON: Of old fuel.

5 GERRY GARINO: Right. So that's one entire  
6 core. Did that all come out at the same time?

7 BRUCE WATSON: Which Unit are you talking  
8 about now?

9 GERRY GARINO: I'm looking at Unit 3. It  
10 says "name, Fukushima U3, FSP."

11 BRUCE WATSON: I'm trying to get oriented  
12 to where you're speaking from, I'm sorry. Could you  
13 repeat that?

14 GERRY GARINO: Okay. So I'm looking at your  
15 document that was sent at 0 dark thirty this morning.  
16 One of them was for Unit 2 which we went over and then  
17 I have three other ones. One says, and it's a case summary,  
18 event type is spent fuel and then there's location and  
19 it says "name," is the first line under location.

20 One of them says "Fukushima U3 FSP" and the  
21 other two both say "Fukushima Unit 4 FSP."

22 BRUCE WATSON: Okay. So, yes, our source  
23 term is based on 50 percent of the fuel in Unit 3 being  
24 damaged and that had (b)(4) fresh fuel bundles in it which  
25 is one batch.

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1 GERRY GARINO: Okay. You're source term  
2 in this document says "batches in Pool 3."

3 BRUCE WATSON: Yes, but it starts out by  
4 staying Unit 4 is modeled in two places. That's the  
5 introduction for the next, the 4A and 4B statements.

6 GERRY GARINO: okay. But I'm, this is the  
7 Fukushima U3 FSP document.

8 BRUCE WATSON: Okay. I have to -- Okay,  
9 here's the way the RASCAL model works, I think I can  
10 answer your question now. We put in the full core load  
11 which is, in this case Unit 3, I think it's (b) slightly  
(4) different than Unit 4.

13 What we do is we say how many batches are  
14 in the pool. In this case we put in three batches which  
15 means that two of the batches are old fuel, over a number  
16 of years or whatever.

17 And then the way RASCAL runs this is it takes  
18 that first batch, okay, which is one-third of the core  
19 which is about (b)(4) fuel bundles and runs that as fresh  
20 fuel, recently discharged and we give that a number of  
21 days it's been out of the core and that's what that source  
22 term is based on, one batch of new fuel and two batches  
23 of old fuel.

24 GERRY GARINO: Okay.

25 BRUCE WATSON: Okay.

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1 GERRY GARINO: So do we have, we need the  
2 parameters if new fuel has been out for how long?

3 BRUCE WATSON: Unit 3, the fuel has been  
4 out for approximately 105 days, is what we've been using  
5 because that's what we were told.

6 GERRY GARINO: The define number that we  
7 don't need --

8 BRUCE WATSON: Yes, but we haven't been  
9 adding days to it I don't think since we were told that.

10 I think we've been assuming it was December 1 or something  
11 when those were discharged.

12 GERRY GARINO: Then if there's uncertainty  
13 of when they came out then I think three days probably  
14 doesn't change things.

15 BRUCE WATSON: No it doesn't unless it's  
16 past 100 days.

17 GERRY GARINO: Right. Okay, now what about  
18 the two batches of old fuel in the Unit 3 pool. How  
19 --

20 BRUCE WATSON: Well we ran dose calculations  
21 in the inventory or the nuclides of the old fuel is a  
22 very limited or a very small contributor to the dose  
23 because all the short-lived stuff is all gone, all of  
24 the iodines and everything else.

25 And so, but we included those in the source

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1 term, but the actual age of it doesn't matter from a  
2 dose perspective.

3 GERRY GARINO: Okay.

4 BRUCE WATSON: Okay. We think like the dose  
5 from the old fuel will contribute less than 1 percent.

6 GERRY GARINO: Okay. So if they're several  
7 years old?

8 BRUCE WATSON: Yes.

9 GERRY GARINO: Okay. Okay, fine. So for  
10 Unit 3 we want to, you know, get the parameters of the  
11 reactor in there, 50,000 megawatt days, at 2350 megawatts,  
12 thermal, and then, you know, a description of the amount  
13 of fuel which is, we believe we have one-third of a core,  
14 105 days old, and then how does that get released? And  
15 what percentage is released in this one, for Unit 3,  
16 50 percent?

17 BRUCE WATSON: Yes. We assume 50 percent  
18 of the total inventory is damaged.

19 GERRY GARINO: And we say that because  
20 information from Japan indicates that probably 50 percent  
21 of the core was uncovered?

22 BRUCE WATSON: Fifty percent of the fuel  
23 in the spent fuel pool was uncovered, yes.

24 GERRY GARINO: So we need to get a statement  
25 like that in there. Okay, now let's go on to Unit 4.

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1 Here I have two pieces of paper. One of them, it says  
2 "shutdown" and they have different shutdowns, one  
3 2009/08/10 and one's 2011/02/11.

4 BRUCE WATSON: Right. On that 02/11 date  
5 is the date which we believe that the Unit 4 reactor,  
6 all the fuel was offloaded from the core and that would  
7 be (b)(4) bundles.

8 GERRY GARINO: It's (b)(4) it looks like.

9 BRUCE WATSON: Yes, is that what it is on  
10 the run, Unit 4?

11 JOHN LUBINSKI: Yes.

12 GERRY GARINO: Of the --

13 BRUCE WATSON: Okay, yes. Okay.

14 GERRY GARINO: Okay. This is Bruce, right?

15 BRUCE WATSON: Huh?

16 GERRY GARINO: You're Bruce, right?

17 BRUCE WATSON: Right.

18 GERRY GARINO: Bruce, the 02/11/2011, for  
19 batches in pool it says one.

20 BRUCE WATSON: Say that again?

21 GERRY GARINO: So the file you provided it  
22 says, I'm looking under "source term, type pool storage,  
23 uncovered fuel, shutdown for newest batch 2011/02/11,  
24 February 11, batches in pool, one."

25 BRUCE WATSON: Batches, yes. We, my

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1 understanding is is that we told it that according to  
2 the cover page here that this is, it was modeled with  
3 one batch of fresh fuel so you need to multiply that  
4 by three, that source term, in order to get the full  
5 core load.

6 GERRY GARINO: And NARAC, you did that?

7 MICHAEL DILLON: We confirmed all our  
8 multipliers with NRC and have explicitly got those checked  
9 through.

10 GERRY GARINO: Okay. And now this other  
11 one, this 2009/08/10, that file, with four batches in  
12 pool, we just (indiscernible) that, that's an older --

13 BRUCE WATSON: Yes, that's the old fuel  
14 inventory that's in the pool and it's been in there for  
15 a number of years.

16 GERRY GARINO: Okay. So, Michael Dillon,  
17 you understand now I think the parameters (indiscernible)  
18 document?

19 MICHAEL DILLON: So I have the Reactor 2  
20 parameters, are actually already in the document. I  
21 believe we have down the parameters for the spent fuel  
22 pools. One question I have is I want a direct line to  
23 double check in case any questions come up to the NRC.

24 KATHRYN BROCK: He can call this number back.

25 BRUCE WATSON: You can call this number back.

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1 We've been having problems with the 54 --

2 MICHAEL DILLON: So I've ended up having  
3 to call your main number --

4 BRUCE WATSON: Yes. Call the main number  
5 and just ask for the PMT --

6 MICHAEL DILLON: Okay.

7 BRUCE WATSON: -- 5415 I think is the real  
8 number, but --

9 MICHAEL DILLON: That didn't work.

10 BRUCE WATSON: -- but call, yes, call, oh  
11 I know what, these are not direct call in lines. You  
12 have to go through that main number.

13 MICHAEL DILLON: Okay.

14 BRUCE WATSON: And ask for the PMT.

15 MICHAEL DILLON: I will call the 5100. So  
16 (301) 816-5100 and ask for the PMT.

17 BRUCE WATSON: Right. Sorry.

18 MICHAEL DILLON: All right. No. No,  
19 apologies here. Okay, so I believe if everybody is  
20 satisfied, hold on one second. Folks here satisfied?

21 STEVE HOMAN (phonetic): Yes.

22 MAUREEN ALAI: I think so.

23 MICHAEL DILLON: Okay, folks from the NRC  
24 satisfied?

25 BRUCE WATSON: Yes, I think so if you are.

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1 MICHAEL DILLON: Gerry, are you satisfied?

2 GERRY GARINO: One other, and Nasstrom are  
3 you still there or is he --

4 MICHAEL DILLON: No. John unfortunately  
5 has been called away for the moment. Do you need me  
6 to get him?

7 GERRY GARINO: No, that's fine. You know,  
8 there's this release pathway, release height 10 meters,  
9 I think NARAC, you used a different one? Whatever  
10 information you, needs to go in there about how this  
11 was released for your modeling, you need to get a few  
12 statements about that in there.

13 MICHAEL DILLON: Okay. I will add release  
14 geometry. I will note just an informational point of  
15 view for the scale of run we're doing here it is utterly  
16 irrelevant, but, yes, I will make sure it's in there.

17 GERRY GARINO: And understand the purpose  
18 of this document --

19 MICHAEL DILLON: I do understand. I just  
20 want to make sure --

21 GERRY GARINO: -- (indiscernible).

22 MICHAEL DILLON: -- if the question comes  
23 up you know that factor.

24 GERRY GARINO: Fine. We're just trying to  
25 head off questions.

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1 MICHAEL DILLON: Okay.

2 BRUCE WATSON: And can I just clarify who  
3 I'm talking to? It's John and who?

4 MICHAEL DILLON: All right. It's --

5 GERRY GARINO: So underline, I'll review,  
6 at DOE it's me, Gerry Garino, and Matt Kizer. At NARAC,  
7 John Nasstrom was there, but he stepped away, it's Mike  
8 Dillon, who's been doing most of the talking and Maureen  
9 Alai, I don't know if she's still there or not, but --

10 MICHAEL DILLON: She's still here.

11 BRUCE WATSON: Okay. So, Gerry, you've been  
12 doing most of the talking. Okay, that's good.

13 MICHAEL DILLON: And we also have Steve Homan  
14 here at NARAC.

15 BRUCE WATSON: Okay, John.

16 GERRY GARINO: Okay. So, Michael, you've  
17 got the tasker to update this document. Do you think  
18 you can get that done in 15 minutes or so?

19 MICHAEL DILLON: I'm going to do it. That's  
20 a little tight, but I'm going to definitely do it. I'm  
21 going to shoot it to you and the NRC for instant review  
22 so we all have that copy and I need the NRC, and I'll  
23 follow up through the phone to the NRC to review and  
24 make sure I have that in right, it's ultimately your  
25 piece.

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BRUCE WATSON: Okay.

GERRY GARINO: And after we get that we may convene another conference call just to make sure everyone's on the same page.

MICHAEL DILLON: Understood.

GERRY GARINO: All right. Thanks everybody.

MICHAEL DILLON: Thank you.

BRUCE WATSON: Thank you.

0%GO!-1\_04065094

(CONFERENCE CALL INITIATED)

KATHRYN BROCK: I'm going to call the 12:00 call just myself and see if there's anything, I mean we just got done with NARAC so I can't imagine there's much.

There's also the 12:30 call with the White House (indiscernible) --

OPERATOR: Welcome to AT&T's teleconference service. Please enter your access code followed by the pound sign.

KATHRYN BROCK: Yes.

MALE PARTICIPANT: Is she a Colonel?

OPERATOR: To join the conference as the host press star otherwise press pound. There are six participants on the call including you. You are joining your conference as a participant.

For a menu of available commands press star, pound.

KATHRYN BROCK: NRCs joining the line.

TERRI DIXON (phonetic): Hi. This Terri Dixon with CM Home Team. Are you on for a conference call?

KATHRYN BROCK: Yes.

TERRI DIXON: Okay. Hold on let me see if

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1 I need to transfer you to the other side of the table.

2 KATHRYN BROCK: Okay.

3 TERRI DIXON: Hi, NRC, you should be able  
4 to join now.

5 KATHRYN BROCK: Oh, thanks.

6 TERRI DIXON: We're just waiting for more  
7 participants.

8 KATHRYN BROCK: Okay.

9 FEMALE PARTICIPANT: Hey, this is the NIT  
10 is anyone there?

11 KATHRYN BROCK: NRCs on the line.

12 FEMALE PARTICIPANT: Hi, NRC. This is the  
13 CM Home Team.

14 KATHRYN BROCK: I'm sorry, who?

15 FEMALE PARTICIPANT: This is the Consequence  
16 Management Home Team.

17 KATHRYN BROCK: Okay, great.

18 FEMALE PARTICIPANT: Standby. I think  
19 we're still trying to get the ZPC (phonetic) back up.

20 KATHRYN BROCK: Okay.

21 MALE PARTICIPANT: Hi, this is the CM Home  
22 Team. Who all's on the line besides us?

23 KATHRYN BROCK: NRC.

24 MALE PARTICIPANT: NIT

25 MALE PARTICIPANT: You have NARAC just

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1 listening in.

2 MALE PARTICIPANT: Sandia National Lab  
3 Assessment.

4 FEMALE PARTICIPANT: NARACs monitoring.

5 MALE PARTICIPANT: Okay.

6 LEE NICKEL: I have a question for the NIT.

7 Hello?

8 MALE PARTICIPANT: NITs here. Go ahead.

9 LEE NICKEL: Do we have, I was told there  
10 were plots approved this morning for release providing  
11 additional more granular information with regard to the  
12 first aerial monitoring flyover. Have those been sent  
13 out yet?

14 MALE PARTICIPANT: No, I don't believe so.  
15 Nothing outside of what went out in the Sitrep and we've  
16 gotten some further guidance from the Administrator on  
17 passing that --

18 LEE NICKEL: I spoke --

19 MALE PARTICIPANT: -- kind of want to wait  
20 for the meeting here.

21 LEE NICKEL: And we may want to take this  
22 offline then. I'll call the NIT directly. I also wanted  
23 to ask, for the other two flyovers from yesterday, have  
24 those plots been published yet?

25 MALE PARTICIPANT: Not sure. We can find

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1 out. Hold one moment.

2 So who's making the request out there, sorry?

3 LEE NICKEL: This is Lee Nickel at Naval  
4 Reactors. Who am I talking to in the NIT?

5 MALE PARTICIPANT: This is Ted  
6 (Indiscernible).

7 LEE NICKEL: I'll call the NIT directly.

8 MALE PARTICIPANT: Yes, that would be fine.

9 LEE NICKEL: Thank you.

10 MALE PARTICIPANT: This is the CM Home Team.

11 Does anyone have anything additional they want to bring  
12 up on the call. We have nothing new from the Home Team  
13 perspective at RSO.

14 TERRY KRAUS: This is Sandia, Terry Kraus.

15 We are working with the A Team to identify ingestion  
16 pathways of concern, so trying to identify what crops  
17 or foods are grown in the area of the West Coast of the  
18 United States, Hawaii, et cetera, that may be impacted.

19 So we're going to have a conference call  
20 with the A Team in about 15 minutes to continue that  
21 process. That's all.

22 MALE PARTICIPANT: Yes, this is the NIT.

23 A couple of items from our end just to pass on. (b)(5)

24 (b)(5)

25

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15 And they're drafting more general guidance  
16 to send out. We'll share that once we receive it from  
17 Public Affairs. And then lastly, I believe we had talked  
18 to the Home Team earlier and I think there was going  
19 to be an update to the roster of deployed personnel coming  
20 out and we just wanted to verify that that's coming our  
21 direction.

22 We're getting a ping from the General  
23 Counsel's office to provide updates.

24 TERRI DIXON: Hi. This is Terri Dixon at  
25 CM Home Team. That list is being prepared. We're just

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1 verifying it's accuracy and also providing the itinerary  
2 for the additional member that was deployed from Las  
3 Vegas.

4 MALE PARTICIPANT: Great. Sowe'll see that  
5 shortly?

6 TERRI DIXON: Correct. I would say within  
7 20 minutes. We have all the information, we're just  
8 verifying it.

9 MALE PARTICIPANT: Copy that. That's all  
10 for the NIT.

11 KATHRYN BROCK: NRC has a couple questions  
12 if it's appropriate now?

13 MALE PARTICIPANT: Go ahead.

14 KATHRYN BROCK: I think it was at the morning  
15 call (b)(5)

16 (b)(5)

17 (b)(5) Is that something you guys can help me with?

18 MALE PARTICIPANT: Standby. Let me go find  
19 out that information for you.

20 KATHRYN BROCK: Okay. And then I have a  
21 second question, and I know we just got off the phone  
22 with NARAC and this is kind of directed towards them,  
23 because our Chairman got an email from Tom D'Agostino  
24 from NNSA DOE and he wanted to make sure that, you know,  
25 we had conferred on the core history, the age of core,

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1 and all the information for our source term and we want  
2 to just report back that we took care of that in the  
3 phone call today and we're all good to go.

4 Is that your assumption as well? NARAC?

5 FEMALE PARTICIPANT: This is Carolyn  
6 (phonetic). I just got on shift and I'm not involved  
7 in all those source terms. Do you want me to get somebody  
8 out there?

9 KATHRYN BROCK: Yes, just a verbal. It  
10 should take five seconds.

11 FEMALE PARTICIPANT: Okay. Hang on.

12 KATHRYN BROCK: Thanks.

13 MATT KIZER: Yes, this is Matt in the NIT.  
14 I've been on some of those calls with NRC and NARAC  
15 and I think the only outstanding thing is Michael Dillon  
16 from NARAC was going to finish a little document he was  
17 putting together summarizing the last source term that  
18 was used.

19 KATHRYN BROCK: Yes. I agree. I thought  
20 we were all aligned, but I just --

21 MATT KIZER: If you haven't received it yet,  
22 I think he is going to send that back out to NRC just  
23 for final review and Gerry had mentioned maybe having  
24 one final discussion to see if everything was covered.

25 KATHRYN BROCK: Yes, and I haven't seen it

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1 yet, but that's my understanding.

2 FEMALE PARTICIPANT: This is Carolyn.

3 KATHRYN BROCK: Hi.

4 FEMALE PARTICIPANT: The short answer was  
5 yes, but they said give them five minutes and they'll  
6 be here.

7 KATHRYN BROCK: Okay, well you know what,  
8 the short is answer is fine I think. Let them continue  
9 working.

10 TERRY KRAUS: This is Terry Kraus and I might  
11 be able to add something. I just spoke with Ann Marie  
12 (phonetic) of NARAC and she mentioned that NRC is currently  
13 in discussions about the source term.

14 So the source term status is not finalized  
15 yet I guess you could say?

16 KATHRYN BROCK: No, that's incorrect. The  
17 source term status for the work they had been doing is  
18 finalized. We're going to be sending another one.

19 TERRY KRAUS: Okay. All right, thanks.

20 KATHRYN BROCK: So they were finishing up  
21 the, you know, just the last minute stuff on the original  
22 source term, we're calling it super source I think.

23 TERRY KRAUS: Okay.

24 KATHRYN BROCK: And we'll have another one  
25 in a couple hours I believe.

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TERRY KRAUS: Okay, that's fine. Thank you.

KATHRYN BROCK: All right, thanks. That's all for NRC.

MALE PARTICIPANT: Yes, this is the NIT again.

(b)(5)

KATHRYN BROCK: Okay. (b)(5)

(b)(5)

(b)(5) -- all right.

MALE PARTICIPANT: (b)(5)

KATHRYN BROCK: (b)(5)

(b)(5)

MALE PARTICIPANT: (b)(5)

(b)(5)

KATHRYN BROCK: Okay. So, great. Okay, thanks.

TERRI DIXON: Hi. This is Terri Dixon from CM Home Team again. I have one more item as a follow up for the NIT.

MALE PARTICIPANT: Okay.

TERRI DIXON: I was just wondering, we were planning to actually send the manifest itself if that was necessary to NIT Ops. Is that okay that we send

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1 that unencrypted?

2 MALE PARTICIPANT: Yes. I think that's  
3 fine.

4 FEMALE PARTICIPANT: Terri, is that manifest,  
5 is the manifest in (indiscernible, possibly "ARMS")?

6 TERRI DIXON: It is.

7 MALE PARTICIPANT: Okay. Then --

8 FEMALE PARTICIPANT: Can you just upload  
9 it to (indiscernible, possibly "ARMS") on the dashboard  
10 and display it current as of today?

11 TERRI DIXON: I sure can Karen (phonetic).

12 FEMALE PARTICIPANT: Thank you. Oh, and  
13 there's also a request to get, I think I talked to Inga  
14 (phonetic) at CM Home Team that we're trying to get a  
15 list of all personnel that CM Home Team that had been  
16 utilized during the response including Sandia, NARAC,  
17 so everyone on CM Home Team, each individual named contact  
18 and you should be getting a call from Inga trying to  
19 get all the names and the personnel together and have  
20 that (indiscernible) his response.

21 TERRI DIXON: I believe Inga has started  
22 making contact with people, Karen, and so she's working  
23 that right now. Can I just confirm with you that you  
24 do have a list for RSO or do we need to prepare that  
25 as well?

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1 FEMALE PARTICIPANT: There is a list, but  
2 I would probably put a (indiscernible, possibly "path")  
3 together that has RSO in it so it's all inclusive in  
4 that one document.

5 TERRI DIXON: Okay. Thank you.

6 FEMALE PARTICIPANT: So to clarify, you need  
7 information from NARAC also?

8 TERRI DIXON: Yes we do. I believe Inga  
9 just left a message so --

10 FEMALE PARTICIPANT: Who did she leave a  
11 message with?

12 TERRI DIXON: Okay. I'm hearing that she  
13 left a message with Ann Marie and also another lady that  
14 answered the call.

15 FEMALE PARTICIPANT: Okay. Ann Marie just  
16 left.

17 TERRI DIXON: Okay.

18 FEMALE PARTICIPANT: Let me find out who  
19 knows about that.

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1  
2 (CONFERENCE CALL INITIATED)

3 TOM GALLETTA: NRC Ops Center, PMT, Tom  
4 Galletta.

5 HEADQUARTERS OPERATIONS OFFICER: Hey, Tom.  
6 I got a guy out of Region IV that he says he has some  
7 information about them detecting iodine-131 at Diablo  
8 Canyon. I'll connect him to you.

9 TOM GALLETTA: Intake of iodine-131, okay.

10 HEADQUARTERS OPERATIONS OFFICER: Okay, for  
11 the detection of.

12 TOM GALLETTA: I didn't hear that last part,  
13 but we can try again.

14 HEADQUARTERS OPERATIONS OFFICER: They said  
15 they detected some iodine-131 at Diablo Canyon. I'll  
16 connect you to him right now.

17 TOM GALLETTA: Detected iodine-131 at Diablo  
18 Canyon.

19 MALE PARTICIPANT: Can we have, we have the  
20 volume turned all the way up and we can barely hear Gerry.  
21 This is the NRC.

22 GERRY GARINO: Is this a little better?

23 MALE PARTICIPANT: Yes, a little better.

24 TOM GALLETTA: Hello?

25 TONY VEGEL: Hello. This is Tony Vegel I'm

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1 the Director of DRS in Region IV.

2 TOM GALLETTA: Okay. A little bit of  
3 background noise, he's director of?

4 TONY VEGEL: The Reactor of Safety in Region  
5 IV.

6 TOM GALLETTA: New reactors?

7 TONY VEGEL: No, no. With the NRC.

8 TOM GALLETTA: Okay.

9 TONY VEGEL: And we got notified this morning  
10 that Diablo identified some iodine-131 at Diablo Canyon.

11 TOM GALLETTA: Okay.

12 TONY VEGEL: Who am I talking to?

13 TOM GALLETTA: Okay, this is Tom Galletta.  
14 I'm a meteorologist with the PMT at Headquarters.

15 TONY VEGEL: Oh, great. Great. So, yes,  
16 and I'm Tony Vegal, I'm the Director of Division Reactor  
17 Safety --

18 TOM GALLETTA: Okay, Reactor --

19 TONY VEGEL: -- in Region IV in Arlington,  
20 Texas with the NRC.

21 TOM GALLETTA: Okay. Tony, spell your last  
22 name for me.

23 TONY VEGEL: Vegal, V-E-G-E-L.

24 TOM GALLETTA: V-E-G-E-L, oh, I understand.

25 TONY VEGEL: Yes, sir.

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1 TOM GALLETTA: Okay.

2 TONY VEGEL: Yes, and just wanted to report  
3 that we got notified by Diablo Canyon --

4 TOM GALLETTA: Okay.

5 TONY VEGEL: That they've detected  
6 iodine-131.

7 TOM GALLETTA: Okay. Do you have a level  
8 or a phone number or a contact?

9 TONY VEGEL: Yes, I do. I have a level.

10 TOM GALLETTA: Okay. Level?

11 TONY VEGEL: It's  $6.349 \text{ E}^{-13}$  microcuries per  
12 cubic centimeter.

13 TOM GALLETTA: Okay.

14 TONY VEGEL: Okay. And what I could do --

15 TOM GALLETTA: Let me repeat back,  $6.349$   
16  $\text{E}^{-13}$  microcuries per cubic centimeter.

17 TONY VEGEL: That's correct.

18 TOM GALLETTA: Okay.

19 TONY VEGEL: But they were able to detect  
20 it. This was one out of four samples that they took  
21 that they detected this.

22 TOM GALLETTA: One of four samples.

23 TONY VEGEL: Yes.

24 TOM GALLETTA: Okay, continue.

25 TONY VEGEL: And, basically, and they

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1 reported that this would be .3 percent of the NRC  
2 (indiscernible, possibly "upfluence" (phonetic)  
3 concentration. I can give you the, what I have right  
4 now, the email that we had received from the licensee,  
5 Diablo Canyon.

6 TOM GALLETTA: Okay, good.

7 TONY VEGEL: That would give some more  
8 specifics. What is the best email I could send this  
9 to?

10 TOM GALLETTA: Okay, P-M-T-12, let's see  
11 here, dot H-O-C at N-R-C dot gov.

12 TONY VEGEL: Okay. So P-M-T-12 H- --

13 TOM GALLETTA: Dot H-O-C --

14 TONY VEGEL: Okay, dot H-R-C?

15 TOM GALLETTA: H-O-C --

16 TONY VEGEL: O-C, okay --

17 TOM GALLETTA: -- at N-R-C --

18 TONY VEGEL: -- dot gov.

19 TOM GALLETTA: -- dot gov.

20 TONY VEGEL: Okay, great. Is there an  
21 internal at NRC? I'll just send it to you there.

22 TOM GALLETTA: Yes, this is the Ops Center,  
23 the PMT Director's email.

24 TONY VEGEL: Okay, great.

25 TOM GALLETTA: The Protective Measures --

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TONY VEGEL: And you're Tom Galletta?

TOM GALLETTA: Yes, and I'm --

TONY VEGEL: Okay.

TOM GALLETTA: Okay. And that's not my email,  
it's the Director's and I'm sitting at his computer,  
so go ahead and send it and I'll acknowledge when it  
comes in.

TONY VEGEL: Yes, let me give you my cell  
phone number.

TOM GALLETTA: Okay, go.

TONY VEGEL: In case something doesn't work,

(b) --  
(6)

TOM GALLETTA:

TONY VEGEL: --

TOM GALLETTA: -- (b)(6) --

TONY VEGEL: --

TOM GALLETTA: -- cell. Okay.

TONY VEGEL: Okay. I'll send it to you  
shortly and if you don't get it in five minutes give  
me a call back.

TOM GALLETTA: Very good, understand. I'll  
call you back if we don't get it.

TONY VEGEL: Okay, thank you, Tom.

TOM GALLETTA: You're welcome. Thank you.

TONY VEGEL: Bye.

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TOM GALLETTA: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 JEANNE DION: This is Jeanne Dion with the  
4 Nuclear Regulatory Commission Office of Research. I'm  
5 currently unavailable. Please leave a message and a  
6 phone number and I'll get back to you shortly.

7 KATHRYN BROCK: Jeanne, Kathy Brock calling  
8 from the Operations Center. I was just calling to follow  
9 up. I understand you had a question that you were going  
10 to email to us, something that you changed.

11 Anyway, we haven't received it yet so we're  
12 just following up. Thanks a lot. Bye-bye.

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(CONFERENCE CALL INITIATED)

JEANNE DION: This is Jeanne.

KATHRYN BROCK: Hey, Kathy Brock calling.

JEANNE DION: Hi, Kathy.

KATHRYN BROCK: Hey, okay, I'm coming in cold to this. Are we waiting for you to give us some information to support one of our briefings or are you waiting --

JEANNE DION: No, well not that I'm aware of. Who do you mean "our?" Do you mean the Op Center's briefing?

KATHRYN BROCK: Yes.

JEANNE DION: Not that I know of. Well, let's see, I talked to somebody on the phone earlier in regards to the Q&A that you gave me --

KATHRYN BROCK: Yes.

JEANNE DION: -- and I changed some of the wordings to the last question regarding the Navy's analysis and why it was different.

KATHRYN BROCK: Yes.

JEANNE DION: So I changed that and I told whoever I spoke to, I don't recall his name, that I was going to send back the Q&A --

KATHRYN BROCK: Yes.

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1                   JEANNE DION: -- to you guys. So I'm working  
2 on that. I'm going to do that right now, but I have  
3 another question while I have you on the phone.

4                   KATHRYN BROCK: Okay, but before you leave  
5 that. We need that, I guess for consistency sake --

6                   JEANNE DION: Okay.

7                   KATHRYN BROCK: -- for a briefing at 3:00.  
8 So the sooner the better.

9                   JEANNE DION: Okay. I'll send it over right  
10 now.

11                  KATHRYN BROCK: Okay.

12                  JEANNE DION: With regards to the Navy  
13 question, the question said the Navy is evacuating Navy  
14 citizens, military personnel, and their dependants from  
15 Japan.

16                  KATHRYN BROCK: Yes.

17                  JEANNE DION: Is that all of Japan, or just  
18 the area around the site?

19                  KATHRYN BROCK: All right, I paused because  
20 I'm thinking.

21                  JEANNE DION: Okay.

22                  KATHRYN BROCK: I don't know where the heck  
23 I got that. Oh, there's so much paper here.

24                  JEANNE DION: Yes. And just another  
25 question, is the Navy evacuating people because of, you

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1 know, it's a disaster area or is it because of the radiation  
2 fear?

3 KATHRYN BROCK: Radiation.

4 JEANNE DION: Okay. So --

5 KATHRYN BROCK: That's my understanding.

6 JEANNE DION: Okay. So then it wouldn't  
7 be all of Japan then, would it? I mean, I don't know.

8 KATHRYN BROCK: I don't know the answer,  
9 I'm sorry.

10 JEANNE DION: It's okay. I'm going to send  
11 you over what I have now --

12 KATHRYN BROCK: Yes.

13 JEANNE DION: -- and so that's my only other  
14 question. Everything else looks good.

15 KATHRYN BROCK: All right. Thanks.

16 JEANNE DION: Okay. Thanks.

17 KATHRYN BROCK: Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team,  
4 this is a recorded line.

5 GERRY GARINO: Hi. Is this Kathryn?

6 KATHRYN BROCK: Yes.

7 GERRY GARINO: This is Gerry Garino again,  
8 DOE.

9 KATHRYN BROCK: Hi there. What can I do  
10 for you?

11 GERRY GARINO: I wanted to let you know that  
12 the documents, I just called NARAC and said send the  
13 documents, get rid of the hides and comments and stuff  
14 and just send it because it's moving up. So that's an  
15 FYI.

16 KATHRYN BROCK: Okay.

17 GERRY GARINO: I was just saying although,  
18 you know, we can still work on it if necessary, but it's  
19 already going to be gone. The other thing is, I was  
20 just briefing our Under Secretary and he asked, you know,  
21 this question of the iodine in the milk and --

22 KATHRYN BROCK: Where?

23 GERRY GARINO: -- you know, we assume no  
24 mitigation. Is there some sort of standard mitigation  
25 factor like, well with mitigation reduces by 100, 1000,

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1 10, is there something like that?

2 KATHRYN BROCK: Okay. So are you talking  
3 about the milk in Japan or the milk here?

4 GERRY GARINO: No, I'm talking Alaska and  
5 Hawaii.

6 KATHRYN BROCK: Okay, so for the United  
7 States.

8 GERRY GARINO: Right.

9 KATHRYN BROCK: Each State should have a  
10 plan for what they would, it's up to the States to protect  
11 their citizens, okay? So if we had a nuclear power plant  
12 emergency it would be up to the plant to mitigate the  
13 situation, but then the State takes care of their people,  
14 okay?

15 So they should have a plan in place, and  
16 it could differ from State to State, about what they  
17 do. But, generally, protective measures are taken for  
18 the ingestion phase we call it, up to 50 miles from the  
19 site, okay.

20 So it's different this time because there's  
21 no site.

22 GERRY GARINO: Right. But in this case the  
23 protective measure is just going to be don't drink the  
24 milk?

25 KATHRYN BROCK: I can't say that. There's

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1 other things, I don't think you can be sure what the  
2 States are going to do.

3 GERRY GARINO: Okay.

4 KATHRYN BROCK: There's other things like  
5 putting cattle on stored feed, you know, interdicting  
6 food --

7 GERRY GARINO: Okay. So --

8 KATHRYN BROCK: -- you know, so there's  
9 different types of actions they take.

10 GERRY GARINO: Okay. If these things are  
11 done, how much would the dose be reduced? Is there some  
12 canonical number that --

13 KATHRYN BROCK: So if you don't ingest  
14 contaminated milk or food, you're dose should be nothing.

15 If you do ingest contaminated food or milk it should  
16 be, well, see we're not recommending to take potassium  
17 iodide, but that's what potassium iodide is for.

18 GERRY GARINO: Right. What did you say you  
19 could instead of (indiscernible) the food, you could  
20 put cows on what?

21 KATHRYN BROCK: Well I was just mentioning  
22 some of the protective actions that are taken. So they  
23 can put the cattle on stored feed, okay, so that the  
24 cattle aren't eating grass that has deposition.

25 GERRY GARINO: Okay. But does, at least

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1 you don't know of a general guideline that if, not guideline,  
2 but canonical, nominal number that protective measures  
3 are taken. You could reduce the predicted dose --

4 KATHRYN BROCK: Well --

5 GERRY GARINO: -- by any factor of a hundred.

6 KATHRYN BROCK: No. I'm not aware of that.

7 GERRY GARINO: Okay.

8 KATHRYN BROCK: I hope that helps.

9 GERRY GARINO: Yes, well --

10 KATHRYN BROCK: No, I understand.

11 GERRY GARINO: It helps in the sense that  
12 I now know, but --

13 KATHRYN BROCK: Yes.

14 GERRY GARINO: -- I guess it's difficult  
15 looking for a number. Okay. I guess that's it for now.  
16 Thanks a lot.

17 KATHRYN BROCK: Okay, sure.

18 GERRY GARINO: Okay.

19 KATHRYN BROCK: Bye.

20 GERRY GARINO: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHRYN BROCK: Protective Measures Team,  
4 this is a recorded line.

5 JENNIFER UHLE: Oh, hi. This is Jennifer  
6 Uhle.

7 KATHRYN BROCK: Hi, Jennifer.

8 JENNIFER UHLE: Who is this?

9 KATHRYN BROCK: Kathy Brock.

10 JENNIFER UHLE: Oh, hey, Kathy. How are  
11 you doing?

12 KATHRYN BROCK: Oh, good. Thanks.

13 JENNIFER UHLE: Good. I got a question for  
14 you, we're about to do a Congressional Staffers briefing  
15 on the phone --

16 KATHRYN BROCK: Yes.

17 JENNIFER UHLE: -- and we just, you know,  
18 answer a bunch of questions. But I guess the issue of  
19 the, you know, the  $10^{19}$  curies being detected --

20 KATHRYN BROCK:  $10^{19}$ ?

21 JENNIFER UHLE: Well isn't it, that's what  
22 I don't understand. It said 10, I don't know how possibly  
23 you could detect that, but it said 10 to the, what Mike  
24 Johnson thinks it said is  $10^{13}$  microcuries.

25 KATHRYN BROCK: -13. I've got Brian

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1 McDermott, we're sitting here at the table trying to,  
2 this is Jennifer Uhle --

3 JENNIFER UHLE: Okay. So it's just, so  
4 it's .1 picocuries is that what it is?

5 KATHRYN BROCK: Yes,  $6.349 \text{ E}^{-13}$  microcuries.

6 JENNIFER UHLE: Okay.

7 KATHRYN BROCK: But we're trying to decide  
8 what to do with this information.

9 JENNIFER UHLE: Right, right. But I guess  
10 it's already hit CNN.

11 KATHRYN BROCK: Hang on, you're on speaker  
12 phone now.

13 BRIAN MCDERMOTT: Hey, Jennifer.

14 JENNIFER UHLE: Hey, Brian.

15 KATHRYN BROCK: She says (indiscernible)  
16 CNN.

17 BRIAN MCDERMOTT: Huh?

18 KATHRYN BROCK: CNN has it.

19 JENNIFER UHLE: Mike Johnson indicated that  
20 it already hit CNN. I don't know if that's true or not.

21 BRIAN MCDERMOTT: Yes. The crawler's  
22 saying there's low levels of detection. We don't know  
23 which report that was coming from. In other words was  
24 that something that they received in the State? Is it  
25 something that EPA told them, or was it somehow that

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1 this report from Diablo made it's way to the State as  
2 well or to the media, you know?

3 JENNIFER UHLE: Okay.

4 BRIAN MCDERMOTT: We just don't know.

5 JENNIFER UHLE: Do you guys, we're about  
6 to do a Congressional Staffer briefing --

7 BRIAN MCDERMOTT: Right.

8 JENNIFER UHLE: -- and it's just really  
9 answering a bunch of questions. If that comes up do  
10 you guys have like a comparison to, you know, if you,  
11 you know, the amount of radioactive material that is,  
12 is, you know, the same amount as, you know, I don't know,  
13 probably far less than what's in a banana, but --

14 BRIAN MCDERMOTT: Yes. I --

15 JENNIFER UHLE: -- do you have that  
16 information?

17 BRIAN MCDERMOTT: No, we don't have that  
18 handy. We could try to get something. But this is, I  
19 mean these, you know, these detectors are extremely  
20 sensitive and the indications now are barely, that there's,  
21 at least what we're getting from, and I would only use  
22 this if asked, but that --

23 JENNIFER UHLE: Oh, yes. We're not  
24 providing that, but I want to be able to say, well how  
25 much is, you know,  $6 \text{ E}^{-13}$  curies, you know, how much

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1 radioactive material is that.

2 And I want to, if we could possibly be able  
3 to say, well that's the same amount of radioactive material  
4 as --

5 BRIAN MCDERMOTT: Yes --

6 JENNIFER UHLE: -- what's in, you know --

7 BRIAN MCDERMOTT: -- I know what you're  
8 trying to say.

9 JENNIFER UHLE: -- one-tenth of a banana  
10 or something, you know, it's probably even less than  
11 that even.

12 BRIAN MCDERMOTT: All right. We know what  
13 you want.

14 KATHRYN BROCK: We have to investigate it.

15 BRIAN MCDERMOTT: We'll have to investigate  
16 it.

17 JENNIFER UHLE: Yes.

18 BRIAN MCDERMOTT: But --

19 KATHRYN BROCK: Because we just got it  
20 ourselves there.

21 BRIAN MCDERMOTT: -- the amounts that are  
22 detected are barely detectible on the instruments and  
23 pose no danger to public health and safety, that's what  
24 you're (indiscernible)?

25 JENNIFER UHLE: Yes. Yes. Yes. Yes, I

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1 know, but you, nobody understands that, that's all I'm  
2 trying to say.

3 KATHRYN BROCK: But one of the key messages  
4 we had was that it, you know, there would be detectible  
5 limits with sensitive instrumentation, but there would  
6 be nothing hitting the Coast that was harmful to human  
7 health.

8 JENNIFER UHLE: Yes, right. Yes, I agree,  
9 but I think it's still easier if we can put it in terms  
10 of what everybody lives with day to day.

11 BRIAN MCDERMOTT: Right. And I think one  
12 of the issues with the messaging, it says, yes, we're  
13 aware of it. It's consistent with what we've already  
14 said regarding the, what word is it, that if it poses  
15 low levels, you know, would be detectible, that it poses  
16 no danger to public health and safety and that the  
17 Department of Energy --

18 KATHRYN BROCK: Has the lead.

19 BRIAN MCDERMOTT: -- has the lead for  
20 communicating --

21 JENNIFER UHLE: Yes.

22 BRIAN MCDERMOTT: -- on that issue. We're  
23 working with them and the Environmental Protection Agency  
24 to make sure everyone has the access to the information  
25 and the data, but we'll defer to them to comment on the

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1 stories that are just breaking on the T.V. now, but,  
2 again, it's very, very low levels.

3 JENNIFER UHLE: Yes, gotcha.

4 BRIAN MCDERMOTT: And I'd leave it at that  
5 and move on.

6 JENNIFER UHLE: Okay, (b)(5)

7 (b)(5)

8  
9 BRIAN MCDERMOTT: That' right.

10 JENNIFER UHLE: So is that, okay.

11 BRIAN MCDERMOTT: And if asked, though, I  
12 would offer that yes, we're aware of some information,  
13 but it is all at extremely very low levels --

14 JENNIFER UHLE: Yes.

15 BRIAN MCDERMOTT: -- just above detectible  
16 on the instruments.

17 JENNIFER UHLE: Yes. Like I said, this was  
18 only going to be in response to a question, we're not  
19 going to provide this.

20 BRIAN MCDERMOTT: Got it.

21 JENNIFER UHLE: Okay. All right, thanks  
22 guys.

23 BRIAN MCDERMOTT: Sure.

24 JENNIFER UHLE: Bye, thank you.  
25

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(CONFERENCE CALL INITIATED)

KATHRYN BROCK: Protective Measures Team,  
this is a recorded line.

FEMALE PARTICIPANT: Hi. I'm trying to  
Brian McDermott. I have a message for him from Josh  
Batkin, the Chairman's Chief of Staff.

KATHRYN BROCK: Oh, you know what, could  
you, you've reached --

FEMALE PARTICIPANT: I called through HOO.

KATHRYN BROCK: And they put you here?

FEMALE PARTICIPANT: Apparently, yes.

KATHRYN BROCK: Okay. Then they made a  
mistake and I'm sorry for that.

FEMALE PARTICIPANT: Okay.

KATHRYN BROCK: It should be for the  
Executive Team.

FEMALE PARTICIPANT: Okay.

KATHRYN BROCK: And you know what, they may  
have sent you here because he was sitting here a few  
minutes ago, but he's left.

FEMALE PARTICIPANT: Okay.

KATHRYN BROCK: I can't see if he's in there  
now --

FEMALE PARTICIPANT: Okay.

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1 KATHRYN BROCK: -- but, here we got somebody  
2 standing up, just to see. He's in the Executive Team  
3 room.

4 FEMALE PARTICIPANT: Okay.

5 KATHRYN BROCK: So call back to the HOO and  
6 asked to be transferred there.

7 FEMALE PARTICIPANT: Okay.

8 KATHRYN BROCK: Thank you. Sorry for that.

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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: PMT, Vince Holahan, this is a recorded line. How can I help you?

HEADQUARTERS OPERATIONS OFFICER: I have Dr. Parker on the phone for someone. Please hold.

VINCE HOLAHAN: Hello?

ROY PARKER: Hello.

VINCE HOLAHAN: Yes. This is Vince Holahan. This is the PMT at the NRC, this is a recorded line.

ROY PARKER: Good enough. Is Bruce Watson available?

VINCE HOLAHAN: Wait one.

MICHELLE HART: Hello, this is Michelle Hart. I am taking over for the Radiological Assessment Assistant Director, Bruce Watson, previously.

ROY PARKER: Okay. What's your name?

MICHELLE HART: Michelle Hart.

ROY PARKER: One L or two?

MICHELLE HART: Two L's.

ROY PARKER: Two L's, you're different from one L Michele Sampson in the Transportation Area then aren't you?

MICHELLE HART: I am.

ROY PARKER: Okay.

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1 MICHELLE HART: As far as I'm aware.

2 ROY PARKER: Dr. Roy Parker. I was talking  
3 to Bruce. I'm the radiation physicist for both FedEx  
4 Express, the EPS, which is the primary people concerned  
5 at this case. I've been checking with them on a daily  
6 basis. We say what to do.

7 Any particular changes from yesterday over  
8 in Japan in terms of, I don't think it is, with the knowledge  
9 I have, but I need it from you, in terms of aircraft  
10 flights in and out, contamination on the ground at the  
11 major airports or anything?

12 MICHELLE HART: I am not aware of any.

13 ROY PARKER: Good. Good.

14 MICHELLE HART: I probably have just about  
15 as much information as you have, of course, you know,  
16 I'm still going through all the information.

17 ROY PARKER: Yes. Okay. So as I know it,  
18 I haven't seen any burps out of Fukushima lately so it  
19 shouldn't be any different from yesterday as my assessment  
20 (indiscernible) --

21 MICHELLE HART: It's your assessment, okay.

22 ROY PARKER: We'll go from why getting that.  
23 So unless you know something different, I'll go with  
24 that.

25 MICHELLE HART: I don't know any different.

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1 Unfortunately you just got us at the turnover so I haven't  
2 fully gathered everything. I was not told that there  
3 were any differences.

4 ROY PARKER: I'll give you this, just in  
5 case, I don't think there will be, let me give you my  
6 name and number.

7 MICHELLE HART: Okay.

8 ROY PARKER: My name is Dr. Roy Parker.

9 MICHELLE HART: Dr. Roy Parker, okay.

10 ROY PARKER: Telephone number is (b)(6) -

11 MICHELLE HART: (b)(6)

12 ROY PARKER: --

13 MICHELLE HART: (b)(6)

14 ROY PARKER: --

15 MICHELLE HART:

16 ROY PARKER: And what was your last name,  
17 Michelle?

18 MICHELLE HART: Hart, H-A-R-T.

19 ROY PARKER: Oh, that's easy.

20 MICHELLE HART: Yes.

21 ROY PARKER: Thank you, ma'am.

22 MICHELLE HART: All right.

23 ROY PARKER: Thank you.

24 MICHELLE HART: Bye.  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: PMT, Vince Holahan. This  
4 is a recorded line.

5 TONY VEGEL: Yes, sir. I'm Tony Vegel. I'm  
6 with the NRC in Region IV. I'm the Director of Division  
7 Reactor Safety and I just want to give you all a heads  
8 up, at San Onofre Nuclear Plant we had a report that  
9 they have also detected some level of iodine-131 in a  
10 portable air sample that they took.

11 And earlier, about an hour or so ago, I called  
12 to give you a heads up regarding Diablo Canyon.

13 VINCE HOLAHAN: Right.

14 TONY VEGEL: So we heard that also San Onofre  
15 might have, also had detected some.

16 VINCE HOLAHAN: Okay. Do you have any  
17 values?

18 TONY VEGEL: No. I don't have a specific  
19 value, but this is what I asked them do as a courtesy  
20 similar to Diablo Canyon, is that they would give you  
21 a call, to call the Headquarters Ops Officer directly  
22 and then ask for the PMT team and talk with, and request  
23 the Protective Measures Team --

24 VINCE HOLAHAN: Right.

25 TONY VEGEL: -- and give you guys the

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1 specifics once they get it.

2 VINCE HOLAHAN: Fantastic.

3 TONY VEGEL: What I know is, it's running  
4 around  $5 \text{ E}^{-13}$  microcuries per milliliter, but that's  
5 preliminary, you know, don't bank on it, but that's what  
6 I heard. But we're requesting San Onofre to also, you  
7 know, directly report it to you.

8 VINCE HOLAHAN: Okay, Tony. What was your  
9 last name?

10 TONY VEGEL: Vegel, V-E-G-E-L.

11 VINCE HOLAHAN: Yes, we've been getting  
12 questions. Obviously CNN has gone out with this. We've  
13 seen it on MSNBC, saying that they're getting hits on  
14 the West Coast. So the fact that we got a second plant  
15 picking it up, a) it doesn't surprise me, but b) it's  
16 generating a lot of questions.

17 So if we can get specifics on the values  
18 and then give ideas to folks what kind of dose or dose  
19 rate we're talking about and try to reassure them how  
20 incrementally small it is, that's what we're trying to  
21 deal with.

22 TONY VEGEL: Yes, and that's what this is.

23 And, you know, and I thought that, you know, it'd be  
24 probably better just that the licensees themselves call  
25 you and I told them this is strictly a courtesy, but

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1 we would much appreciate it.

2 VINCE HOLAHAN: Right.

3 TONY VEGEL: So you should be getting a call  
4 from San Onofre as well.

5 VINCE HOLAHAN: All right, Tony.

6 TONY VEGEL: Sound like a plan?

7 VINCE HOLAHAN: Yes. Thanks for the heads  
8 up.

9 TONY VEGEL: Hey, not a problem. Have a  
10 good one.

11 VINCE HOLAHAN: Okay. Bye-bye now.

12 TONY VEGEL: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHY FRANKLIN (phonetic): EPA at EOC,  
4 Kathy Franklin.

5 VINCE HOLAHAN: Yes, good afternoon. This  
6 is Vince Holahan from the NRC. I was trying to get a  
7 hold of Ed Tupin, please.

8 KATHY FRANKLIN: Ed Tupin, okay. Is he one  
9 of our, Ed Tupin, one of our people on the -- we have  
10 to figure out which phone he's at. Okay, here we go,  
11 8923.

12 VINCE HOLAHAN: Okay. This is not a good  
13 number?

14 KATHY FRANKLIN: It is. I just need to  
15 transfer you and I need to look up his number here.  
16 Okay, so your name is what, I'm sorry?

17 VINCE HOLAHAN: Vince Holahan.

18 KATHY FRANKLIN: Vince Molahan?

19 VINCE HOLAHAN: Holahan, with an H.

20 KATHY FRANKLIN: Holahan, from the NRC you  
21 said?

22 VINCE HOLAHAN: That's correct.

23 KATHY FRANKLIN: Okay. Hang on, I'm going  
24 to transfer you.

25 VINCE HOLAHAN: Hello?

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2 (CONFERENCE CALL INITIATED)

3 MICHELLE HART: PMT, this is Michelle Hart.

4 HEADQUARTERS OPERATIONS OFFICER: Yes, I've  
5 got someone from DOE on the line for you.

6 MICHELLE HART: Okay. Hello?

7 GERRY GARINO: Hi. This is Gerry Garino  
8 at DOE. Is this Kathryn?

9 MICHELLE HART: No. This is Michelle Hart.  
10 Kathryn has turned over to Vince Holahan and he is in  
11 with the Executive Team right at the moment though.

12 GERRY GARINO: Okay.

13 MICHELLE HART: Is there something I can  
14 do for you?

15 GERRY GARINO: So, sure. We, did she talk  
16 about the source term discussion we had in defining what  
17 the source term is in that (indiscernible, possibly "main")  
18 document?

19 MICHELLE HART: Yes. I am working on  
20 preparing that document.

21 GERRY GARINO: Well we have a document which  
22 we've --

23 MICHELLE HART: Yes. The one that you've  
24 sent us?

25 GERRY GARINO: -- (indiscernible) super core

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1 term.

2 MICHELLE HART: I'm sorry. Say that again,  
3 I can barely hear you.

4 GERRY GARINO: So for the super core source  
5 term, as we're calling it, which we've used for the  
6 transpacific calculations, we have a document.

7 MICHELLE HART: Right.

8 GERRY GARINO: Hopefully NARAC sent you a  
9 copy.

10 MICHELLE HART: I have one.

11 GERRY GARINO: And I'm going, so the White  
12 House would like to have some questions on it and I'm  
13 going to set up a conference call --

14 MICHELLE HART: Okay.

15 GERRY GARINO: --within the next few minutes,  
16 so I guess that would be you who would be on it?

17 MICHELLE HART: Yes.

18 GERRY GARINO: Okay. What was your name  
19 again?

20 MICHELLE HART: Michelle Hart.

21 GERRY GARINO: Okay. Who is the tech, the  
22 science guy, I think his name was Bruce. Did he also  
23 leave?

24 MICHELLE HART: Yes. Actually, I'm  
25 replacing Bruce.

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1 GERRY GARINO: Oh, okay.

2 MICHELLE HART: So, yes, the Radiological  
3 Assessment Assistant Director, that's my title.

4 GERRY GARINO: I see, okay. So I will be  
5 calling you in a few minutes, I guess, with the time  
6 for this conference call.

7 MICHELLE HART: Okay.

8 GERRY GARINO: Okay.

9 MICHELLE HART: And your name again was,  
10 I'm sorry?

11 GERRY GARINO: Gerry, G-E-R-R-Y, last name  
12 Garino, G-A-R-I-N-O.

13 MICHELLE HART: Okay. And you're with DOE?

14 GERRY GARINO: I'm with DOE, yes.

15 MICHELLE HART: Okay. Thank you very much.

16 GERRY GARINO: All right. Thank you.

17 MICHELLE HART: Bye.

18 GERRY GARINO: Bye.

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(CONFERENCE CALL INITIATED)

TOM TANNER (phonetic): EPA Headquarters Operations, this is Contract Support, Tom Tanner speaking, can I help you?

VINCE HOLAHAN: Yes. This is Vince Holahan at the NRC calling for Mike Boyd, please.

TOM TANNER: Standby.

KATHY FRANKLIN: Hello, Kathy Franklin, EOC.

VINCE HOLAHAN: Yes, I'm trying to get a hold of Mike Boyd, please.

KATHY FRANKLIN: Oh, you're trying to get a hold of Mike Boyd, okay. Let me look up his number here, 8924. Let me see if I can transfer you.

VINCE HOLAHAN: I thought I dialed 8924.

KATHY FRANKLIN: Oh, well if he's not at his desk then it flicks over to me.

VINCE HOLAHAN: Oh, okay.

KATHY FRANKLIN: So do you want me to take a message?

VINCE HOLAHAN: Would you have him call Vince Holahan, please.

KATHY FRANKLIN: And I'm sorry, I dropped your call before. I'm very sorry about that.

VINCE HOLAHAN: That's all right. We got

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1 called into a meeting with the Chairman, so I couldn't  
2 hang.

3 KATHY FRANKLIN: Okay, because they were  
4 trying to transfer me while I was trying to transfer  
5 you. So Vince Holahan --

6 VINCE HOLAHAN: Yes, Holahan. Mike knows  
7 me.

8 KATHY FRANKLIN: Okay. All right, I'll have  
9 him call you.

10 VINCE HOLAHAN: And --

11 KATHY FRANKLIN: You're number is?

12 VINCE HOLAHAN: The number should be (301)  
13 816 --

14 KATHY FRANKLIN: 816 --

15 VINCE HOLAHAN: -- 5419.

16 KATHY FRANKLIN: -- 5419. Okay, I'll make  
17 sure he gets the message.

18 VINCE HOLAHAN: Thank you very much.

19 KATHY FRANKLIN: Okay.

20 VINCE HOLAHAN: Bye-bye.

21 KATHY FRANKLIN: Bye.  
22  
23  
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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: NRC, Vince Holahan. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: I have Mr. Garino from the DOE on the line for you, please hold.

VINCE HOLAHAN: Hello?

GERRY GARINO: Hi, is Michelle Hart there?

VINCE HOLAHAN: Yes, wait one please.

MICHELLE HART: This is Michelle Hart.

GERRY GARINO: Hi, Michelle. Gerry Garino, DOE. We're having this conference call essentially now, at 1615, and here's the call in number, are you ready to copy?

MICHELLE HART: Okay, yes.

GERRY GARINO: (877) 836 --

MICHELLE HART: 836 --

GERRY GARINO: -- 1274.

MICHELLE HART: -- 1274.

GERRY GARINO: And the pin is (b)(6)

MICHELLE HART: I'm sorry, what?

GERRY GARINO: (b)(6)

MICHELLE HART: Okay, I will let people here know.

GERRY GARINO: Standby, 336.

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MICHELLE HART: What, say that again?

GERRY GARINO: So the number is (877) 336

--

MICHELLE HART: 336, okay. And the pin is

(b)(6)

GERRY GARINO: (b)(6)

MICHELLE HART: Okay. I will let everybody know. And it's happening in --

GERRY GARINO: It's starting in two minutes.

MICHELLE HART: Two minutes, all right. Thank you.

GERRY GARINO: Okay. Bye.

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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: NRC PMT, Vince Holahan speaking. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Hey, Vince. This is Chuck in the Ops Center. I want to try to connect you with Angela Toggins. She wants to speak to Trish Holahan.

VINCE HOLAHAN: She's on a line right now with the White House.

HEADQUARTERS OPERATIONS OFFICER: Oh, she is. That's kind of important. Well let me give her to you because she's been trying to get over for a couple for a couple of times and I don't want to make her angry, so maybe she --

VINCE HOLAHAN: Who is it again?

HEADQUARTERS OPERATIONS OFFICER: It's Angela Toggins. She's one of the secretaries, well from the Commissioner's Office.

VINCE HOLAHAN: Ah, okay.

HEADQUARTERS OPERATIONS OFFICER: All right, here we go.

ANGELA TOGGINS: Hello?

VINCE HOLAHAN: Hi, this is Vince Holahan speaking?

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1 ANGELA TOGGINS: Hey, is Trish available?

2 VINCE HOLAHAN: She's on a call with the  
3 White House right now.

4 ANGELA TOGGINS: She is, okay, no problem.  
5 There was a group that was just assembled talking to  
6 the Chairman. Were you in there?

7 VINCE HOLAHAN: I sure was.

8 ANGELA TOGGINS: Oh, great, okay. I'm sorry,  
9 this is Angela and I didn't get everyone's names there.

10 Did the Chairman ask for any specific information on  
11 Japan coming out of that phone call? And did you all  
12 (indiscernible) --

13 VINCE HOLAHAN: No. I think the only thing  
14 he said is he wanted to see the source term before, on  
15 the ultimate worst case before we shared it with DOE  
16 or anyone else.

17 ANGELA TOGGINS: Okay, perfect. And what's  
18 the timing of that?

19 VINCE HOLAHAN: They're working it.

20 ANGELA TOGGINS: They're working it right  
21 now?

22 VINCE HOLAHAN: They're working it now.

23 ANGELA TOGGINS: Okay. If you don't mind  
24 keeping me posted and it's Angela Toggins, T-O-G-G-I-N-S,  
25 and since I'm living on my Blackberry these days you

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1 could just shoot an email letting me know the timing  
2 of that.

3 VINCE HOLAHAN: Okay, Angela.

4 ANGELA TOGGINS: That would be great.

5 VINCE HOLAHAN: Very good.

6 ANGELA TOGGINS: Thank you so much.

7 VINCE HOLAHAN: Okay. Bye-bye.

8 ANGELA TOGGINS: All right, bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: NRC PMT, Vince Holahan  
4 speaking. This is a recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: Mr.  
6 Holahan, I have Ed Tucker, from the, he said he talked  
7 to you a few moments ago on the other line.

8 VINCE HOLAHAN: Ed Tucker?

9 HEADQUARTERS OPERATIONS OFFICER: Yes, sir.

10 VINCE HOLAHAN: Okay.

11 HEADQUARTERS OPERATIONS OFFICER: Let me  
12 connect you.

13 VINCE HOLAHAN: Hello?

14 ED TUPIN: Hello, Vince?

15 VINCE HOLAHAN: Yes, Vince Holahan.

16 ED TUPIN: Ed Tupin, EPA.

17 VINCE HOLAHAN: Hey, Ed. Hey, this is a  
18 recorded line.

19 ED TUPIN: Okay, that's fine. So you called  
20 a bit ago.

21 VINCE HOLAHAN: Yes, I did.

22 ED TUPIN: We had a bit of trouble tracking  
23 down a phone number to reach you on.

24 VINCE HOLAHAN: Okay. Well what number are  
25 you at?

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1 ED TUPIN: I am available at 202 --

2 VINCE HOLAHAN: Hold on let me get back to  
3 where, okay, 202 --

4 ED TUPIN: Yes, (202) 250-8911.

5 VINCE HOLAHAN: And are you working in the  
6 Op Center there?

7 ED TUPIN: Yes. This is the EPA Ops Center.

8 VINCE HOLAHAN: Okay. Yes, the number we  
9 were given was a (202) 564-3850.

10 EDTUPIN: That's the main Ops Center number.

11 VINCE HOLAHAN: Yes, and they couldn't get  
12 a hold of you or couldn't transfer me to you or  
13 (indiscernible) --

14 ED TUPIN: What happened is is somebody  
15 punched the wrong button when they went to transfer the  
16 call.

17 VINCE HOLAHAN: Oh, okay. Well that sounds  
18 like fun.

19 ED TUPIN: You know how that goes and then  
20 it's like crap, I hope he calls back, and they're like  
21 oh, we're sorry, I hope he calls back.

22 VINCE HOLAHAN: Well apparently Mike Boyd  
23 called for you and gave me the same number and I tried  
24 to get a hold of Mike and that didn't work. And then  
25 we got tied up in briefings with the Chairman and now

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1 we've got a White House brief going on, so --

2 ED TUPIN: Okay.

3 VINCE HOLAHAN: -- anyways, are you aware  
4 that they've been detecting minute amounts of iodine-131  
5 in California, both at Diablo Canyon and San Onofre?

6 ED TUPIN: Oh, San Onofre now, too?

7 VINCE HOLAHAN: Yes. I got a phone call  
8 from Tony Vegel, he's in our Region IV office and all  
9 he had to say was "that I got call from San Onofre, they  
10 detected I-131 in their portal air sampler, had no value  
11 for it," and he said in the future if they had a report  
12 that they suggest that they call our Headquarters Ops  
13 and transfer him to us so at least we can get some  
14 particulars.

15 His guess, I say again, his guess, he didn't  
16 have a value, but he thought it was probably somewhere  
17 in the order of  $5 \times 10^{-13}$  microcuries per cubic meter.

18 ED TUPIN: Okay. Yes, actually, Beth Reed  
19 had called me about this same particular issue with the  
20 Diablo Canyon data and emailed what they had sent her,  
21 at least a report of it.

22 And, let me see, what was, let me just, hold  
23 on a second let me pull up that email, there we go, yes,  
24 and Diablo reported  $6.349 \text{ E}^{-15}$  --

25 VINCE HOLAHAN: Yes.

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1 ED TUPIN: -- microcuries per cubic  
2 centimeter.

3 VINCE HOLAHAN: Yes, so you do have a report  
4 on that?

5 ED TUPIN: So we have one of the two. We  
6 have the Diablo data, but we do not have the San Onofre  
7 --

8 VINCE HOLAHAN: Okay. I don't have any San  
9 Onofre either. Well I just wanted to make sure that  
10 you at least had the Diablo information.

11 ED TUPIN: Yes. Yes, great.  
12 (Indiscernible) Beth was all over it. She called here  
13 wanting to know what to do with and I said send it my  
14 way.

15 VINCE HOLAHAN: Yes, well the biggest thing  
16 and we're anticipating the questions, you know, what's  
17 this mean in California? What are the doses going to  
18 be? I mean that was a big question, what were the doses  
19 going to be. And quite frankly this is just above  
20 detectible on what they can do.

21 ED TUPIN: Right. Yes, the note that came  
22 with it, it was "this is 0.3 percent of the NRC  
23 (indiscernible, possibly "capsulate") concentrations  
24 contingency of R (indiscernible) Table 2, and .003 percent  
25 of (indiscernible)." This all means --

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1 VINCE HOLAHAN: Yes, okay. And that's  
2 assuming, yes, you're assuming a 24-7, 365-day inhalation  
3 of that and if you do that it comes out to something  
4 like less than two-tenths of a millirem. So it's --

5 ED TUPIN: Yes. Okay.

6 VINCE HOLAHAN: Ed, well, you know, I mean  
7 you take 50 millirem and divide by 300 and you don't  
8 have an awful lot.

9 ED TUPIN: Yes.

10 VINCE HOLAHAN: Or thereabouts. Okay.  
11 Well, Ed, I just want to let you know that --

12 ED TUPIN: Yes.

13 VINCE HOLAHAN: -- yes, we had that  
14 information, you've got that information. If any  
15 questions come up about it with, you know, what we should  
16 be doing, you know, you're in a better position to deal  
17 with those type of questions dealing with the Continental  
18 U.S. and it's not on a site.

19 ED TUPIN: Right. Sure, I understand. My  
20 only request, if you get any more requests of that kind  
21 of a nature or any more data, rather, any more information  
22 like that --

23 VINCE HOLAHAN: Right, right.

24 ED TUPIN: -- I'd appreciate you pass it  
25 along. I asked, I gave Beth an email address of E-O-C

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1 Environmental Unit at E-P-A dot gov.

2 VINCE HOLAHAN: Hold on. Let me write that  
3 down. E-O-C --

4 ED TUPIN: Yes, Environmental Unit at E-P-A  
5 dot gov.

6 VINCE HOLAHAN: It's all one word?

7 ED TUPIN: Well in ours we actually have  
8 it with two spaces, E-O-C space Environmental space Unit  
9 at E-P-A dot gov, but I wonder how that works, or send  
10 it to my address which is tupin dot edward at E-P-A --

11 VINCE HOLAHAN: Yes, I've got that written  
12 down.

13 ED TUPIN: Yes, you got my address I'm sure.  
14 So shoot it to me and if you try the EOC as well,  
15 Environmental Unit --

16 VINCE HOLAHAN: We'll send it to both  
17 addresses.

18 ED TUPIN: Send it to both addresses if you  
19 don't mind.

20 VINCE HOLAHAN: Yes, well, let me ask you,  
21 is that, because it's email, is that a space or is it  
22 an underscore?

23 ED TUPIN: No. There's actually spaces in  
24 our, in this. I asked that same question when I first  
25 got this. I said you've got to be kidding me, right?

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1 And they said no, it actually is a space.

2 VINCE HOLAHAN: Okay.

3 ED TUPIN: I mean it's like okay our server  
4 understands. The problem is I'm not sure that everybody  
5 else's servers understand that which may be a problem.  
6 That's why I gave you my other address.

7 VINCE HOLAHAN: You got it, Ed.

8 ED TUPIN: Thank you, sir. If we see anymore

9 --

10 VINCE HOLAHAN: Hey, if we see something  
11 we'll send it your way.

12 ED TUPIN: Yes, if SONGS actually can cough  
13 up a number or something that resembles a number we'd  
14 appreciate it.

15 VINCE HOLAHAN: Yes. No, I appreciate that,  
16 too, as assay, R-IV or one of them just to, you know,  
17 contact us directly and my guess is over the course of  
18 the next couple of months we'll probably be getting all  
19 sorts of hits.

20 ED TUPIN: Yes. We're expecting that, yes.

21 VINCE HOLAHAN: Okay. Hey, thanks, Ed.

22 ED TUPIN: All right. Thank you.

23 VINCE HOLAHAN: Bye-bye.

24 ED TUPIN: Bye.  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: NRC PMT, this is --

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 DOE on the line for you, please hold.

6 VINCE HOLAHAN: Hello?

7 GERRY GARINO: Hello.

8 VINCE HOLAHAN: Yes, NRC PMT, this is Vince  
9 Holahan. This is a recorded line.

10 GERRY GARINO: Hi, Vince. This is Gerry  
11 Garino from DOE.

12 VINCE HOLAHAN: Right.

13 GERRY GARINO: We were just on the call,  
14 you were just on the call with (b)(6) --

15 VINCE HOLAHAN: Okay.

16 GERRY GARINO: Um --

17 VINCE HOLAHAN: Hold on just a sec. Let  
18 me give you to Trish.

19 GERRY GARINO: Okay.

20 PATRICIA HOLAHAN: Hello, this is Trish  
21 Holahan.

22 GERRY GARINO: Hey, Trish, Gerry Garino.

23 PATRICIA HOLAHAN: Okay.

24 GERRY GARINO: How are you?

25 PATRICIA HOLAHAN: Good, thanks.

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1 GERRY GARINO: The only thing I think we  
2 need to follow up on, on the source term is, you know,  
3 is to try understand this discrepancy and are we sure  
4 it's 25 percent of the total core --

5 PATRICIA HOLAHAN: No. I think --

6 GERRY GARINO: -- or is it just --

7 PATRICIA HOLAHAN: -- it was 25 percent of  
8 the 33 percent melted fuel. So 25 percent --

9 GERRY GARINO: Right, can --

10 PATRICIA HOLAHAN: -- times 33 would be about  
11 seven.

12 GERRY GARINO: Yes, I agree. And is there  
13 some way to get some confirmation of that because on  
14 the phone call we had with NARAC and NRC and DOE just  
15 I'd say two hours ago, that question specifically came  
16 up and we were told no it's 25 percent of the total core,  
17 75 percent of the melted core.

18 PATRICIA HOLAHAN: Okay. I'll have Gary  
19 Purdy, who's our RASCAL, send you, now where do I send  
20 the email to, or to NARAC or to you?

21 GERRY GARINO: Well you can send it to NIT  
22 Ops --

23 PATRICIA HOLAHAN: Okay.

24 GERRY GARINO: -- and to NARAC.

25 PATRICIA HOLAHAN: Nit Ops and NARAC, okay.

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1 All right.

2 GERRY GARINO: Okay.

3 PATRICIA HOLAHAN: And NARAC, okay. All  
4 right.

5 GERRY GARINO: All right.

6 PATRICIA HOLAHAN: Okay. Bye-bye.

7 GERRY GARINO: Yes, thanks. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: NRC PMT, Vince Holahan.

4 This is a recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: I have  
6 Angela Toggins from the Chairman's Office on the line  
7 for you.

8 VINCE HOLAHAN: Very good.

9 HEADQUARTERS OPERATIONS OFFICER: Please  
10 hold.

11 ANGELA TOGGINS: Hello?

12 VINCE HOLAHAN: Hi, Angela, Vince Holahan.

13 ANGELA TOGGINS: Hey, Vince. It's Angela  
14 again. I'm so sorry to bug you. I am, is Trish, is she  
15 off the phone?

16 VINCE HOLAHAN: Yes, she is.

17 ANGELA TOGGINS: Oh, she is. Could I, is  
18 she free or she really, really busy?

19 VINCE HOLAHAN: Let me see if I can find  
20 her, well I gotta find her.

21 ANGELA TOGGINS: Oh.

22 VINCE HOLAHAN: Hold on.

23 ANGELA TOGGINS: If she's busy then I can  
24 chat with you and I'm sure you could pass it on.

25 VINCE HOLAHAN: Let me see if I can find

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1 her first.

2 ANGELA TOGGINS: Okay.

3 PATRICIA HOLAHAN: Hi, Angela.

4 ANGELA TOGGINS: Hey, Trish. I know I handed  
5 you that press thing from the White House or I showed  
6 it to you where they were quoting the Chairman?

7 PATRICIA HOLAHAN: Yes.

8 ANGELA TOGGINS: Do you have that in front  
9 of you?

10 PATRICIA HOLAHAN: Oh, I gave it to --

11 ANGELA TOGGINS: Oh, that's --

12 PATRICIA HOLAHAN: -- I gave it back to David.

13 ANGELA TOGGINS: Okay. That's okay. I have  
14 found the email finally.

15 PATRICIA HOLAHAN: Oh, okay.

16 ANGELA TOGGINS: And I don't think it says  
17 the same thing and so I'm trying to figure out which  
18 they quoted him with, but I wanted, I'm just going to  
19 send this quote. I'm not sure how to get it to you,  
20 whether just send it to your regular email or P-M-T-01?

21 PATRICIA HOLAHAN: Send it to, well send  
22 it to my regular email because if it's sent to this --

23 ANGELA TOGGINS: Yes.

24 PATRICIA HOLAHAN: -- everything on the PMT  
25 is going to get (indiscernible).

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1 ANGELA TOGGINS: Gotcha, okay. And, Trish,  
2 what is --

3 PATRICIA HOLAHAN: Oh, Patricia --

4 ANGELA TOGGINS: Patricia --

5 PATRICIA HOLAHAN: -- dot Holahan --

6 ANGELA TOGGINS: It should come up. There  
7 it is, okay. And I'm going to try to double check and  
8 see if this is out there and I'll put a little context  
9 in there. I just thought maybe you had it in front,  
10 and so this is what this one said.

11 (b)(5)  
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20 PATRICIA HOLAHAN: No, I don't --

21 ANGELA TOGGINS: I don't think --

22 PATRICIA HOLAHAN: -- it didn't.

23 ANGELA TOGGINS: Yes, I didn't think it did  
24 either.

25 PATRICIA HOLAHAN: Yes.

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ANGELA TOGGINS: So I'm trying --

PATRICIA HOLAHAN: Yes.

ANGELA TOGGINS: -- (b)(5)

(b)(5),(b)(6)

PATRICIA HOLAHAN: Okay.

ANGELA TOGGINS: (b)(5)

(b)(5)

PATRICIA HOLAHAN: Yes. Now we just talked, I just was on a phone call with the White House and DOE and NARAC.

ANGELA TOGGINS: Okay.

PATRICIA HOLAHAN: (b)(5)

(b)(5)

Also he, you know, he said the same thing we did, that there are either no cows in Alaska or the likelihood that the cows aren't eating grass because it's wintertime --

ANGELA TOGGINS: Right. It's Alaska.

PATRICIA HOLAHAN: -- in Alaska and so that number would basically go down to the same number as

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1 the ground shine doses.

2 ANGELA TOGGINS: Okay. Can I ask this, even  
3 I should have asked this over there so I apologize, but  
4 with the year old who drinks the milk all year long from  
5 this cow who's eating the grass, did that then result  
6 in a number higher than what our regs would allow or  
7 what or where the --

8 PATRICIA HOLAHAN: The PAGs would allow.

9 ANGELA TOGGINS: -- where the PAGs would  
10 allow?

11 PATRICIA HOLAHAN: Yes.

12 ANGELA TOGGINS: So the PAGs would at that  
13 point require some protective actions to go into place?

14 PATRICIA HOLAHAN: Is that greater than the  
15 PAGS? I'm looking at Vince.

16 VINCE HOLAHAN: Thirty-five is  
17 (indiscernible).

18 PATRICIA HOLAHAN: Yes, 35 is. So what would  
19 we do in that case?

20 VINCE HOLAHAN: For that?

21 PATRICIA HOLAHAN: Yes.

22 VINCE HOLAHAN: KI, introduce the milk, take  
23 all the cows off --

24 PATRICIA HOLAHAN: Okay.

25 VINCE HOLAHAN: -- the land.

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1 PATRICIA HOLAHAN: Well they're off pasture  
2 lands anyways because that was the call we had. Sorry,  
3 okay.

4 ANGELA TOGGINS: No, no, no. Okay, so the  
5 dose to that one-year-old under all of those assumptions  
6 was 35 what?

7 PATRICIA HOLAHAN: Thirty-five rem.

8 ANGELA TOGGINS: Thirty-five rem.

9 PATRICIA HOLAHAN: Yes, .5 --

10 ANGELA TOGGINS: And our PAG limit is?

11 PATRICIA HOLAHAN: Twenty-five.

12 ANGELA TOGGINS: Twenty-five.

13 PATRICIA HOLAHAN: Yes, it was a range of  
14 .5 to 35 rem, but that was assuming the cows ate grass.

15 ANGELA TOGGINS: Okay.

16 PATRICIA HOLAHAN: And NARAC said, well  
17 that's their basic assumptions, but --

18 ANGELA TOGGINS: (b)(5)

19 (b)(5)  
20  
21

22 PATRICIA HOLAHAN: Well, they weren't going  
23 --

24 ANGELA TOGGINS: -- with this regardless?

25 PATRICIA HOLAHAN: No. They weren't going

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1 (b)(5)  
2  
3  
4

5 ANGELA TOGGINS: Okay.

6 PATRICIA HOLAHAN: But he wanted to talk  
7 to us all beforehand to get clarification, but what he's  
8 going to put in is the basic numbers that are equivalent  
9 to the ground shine doses because they're not ingesting  
10 milk.

11 ANGELA TOGGINS: Okay. (b)(5)

12 (b)(5)  
13

14 PATRICIA HOLAHAN: Yes. (b)(5)

15 (b)(5)  
16  
17

18 ANGELA TOGGINS: Okay.

19 PATRICIA HOLAHAN: But --

20 ANGELA TOGGINS: Is somebody running one  
21 that they were going to make public?

22 PATRICIA HOLAHAN: No.

23 ANGELA TOGGINS: Okay.

24 PATRICIA HOLAHAN: We weren't going to ask  
25 them to, now we've got the source term almost developed

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1 and then we'll run it past the Chairman.

2 ANGELA TOGGINS: Okay. And the source term

3 --

4 PATRICIA HOLAHAN: What we put in RASCAL  
5 and then with the worst case scenario, the four reactors,  
6 no, the three reactors and the four spent fuel pools.

7 ANGELA TOGGINS: And that'll still only get  
8 us 50 miles though? We're not still talking --

9 PATRICIA HOLAHAN: No.

10 ANGELA TOGGINS: -- about the U.S.?

11 PATRICIA HOLAHAN: No. We'd get it to NARAC.

12 Before --

13 ANGELA TOGGINS: Oh, I see. (Indiscernible)

14 --

15 PATRICIA HOLAHAN: -- we give it to NARAC

16 --

17 ANGELA TOGGINS: -- those numbers.

18 PATRICIA HOLAHAN: -- we wanted --

19 ANGELA TOGGINS: Got it, okay.

20 PATRICIA HOLAHAN: -- to run a source term.

21 ANGELA TOGGINS: So those are the ones  
22 that'll get worse?

23 PATRICIA HOLAHAN: Yes.

24 ANGELA TOGGINS: Okay, gotcha. Sorry,  
25 Trish. Okay, I'll send this to your personal email,

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1 but first I'm going to try to see if this is anywhere  
2 quoted out there.

3 PATRICIA HOLAHAN: Okay.

4 ANGELA TOGGINS: And I will let you know  
5 that in the email to your personal account.

6 PATRICIA HOLAHAN: Okay. And I'll go and  
7 see if David still has that. I thought you had taken  
8 it from David?

9 ANGELA TOGGINS: Yes, I took it from Neile,  
10 I think, or somebody. So if you gave it back to them  
11 I'm sure they still have it.

12 PATRICIA HOLAHAN: Okay.

13 ANGELA TOGGINS: So, yes, this one says "so  
14 I want to be very clear even under the worst case scenario."

15 PATRICIA HOLAHAN: Okay.

16 ANGELA TOGGINS: See if that one has that.

17 PATRICIA HOLAHAN: Okay.

18 ANGELA TOGGINS: Thanks so much, Trish.

19 PATRICIA HOLAHAN: Okay, all right.

20 ANGELA TOGGINS: Okay, bye.

21 PATRICIA HOLAHAN: Bye-bye.  
22  
23  
24  
25

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(CONFERENCE CALL INITIATED)

VINCE HOLAHAN: NRC PMT, Vince Holahan.

This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, I have someone from DOE I'm going to transfer to you right now.

VINCE HOLAHAN: Okay, thank you. Hello?

GERRY GARINO: Hello.

VINCE HOLAHAN: Hi, this is Vince Holahan.

GERRY GARINO: Hey, Vince. Gerry Garino from DOE, how are you?

VINCE HOLAHAN: I'm doing good. Who do you need to talk to?

GERRY GARINO: I guess you're good. I don't, I just wanted to, this came up earlier, there was a question and I just wanted to pass it along since I'm seeing some more direction from our Senior guys here.

In terms of the source terms that we're using and stuff, (b)(5)

(b)(5)

VINCE HOLAHAN: I think we're pretty much in agreement on that.

GERRY GARINO: Okay.

VINCE HOLAHAN: My understanding when we

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1 were talking with the Chairman Assistant and Charlie  
2 Miller who's on our ET is (b)(5)

3 (b)(5) (b)(5)

4 (b)(5)  
5

6 GERRY GARINO: Right. Yes, okay. Just, I  
7 guess if it goes outside the DOE, NRC community, in other  
8 words, if you're just not sending it to NARAC and not  
9 using it yourself, we'd probably, there would probably  
10 need to be some higher level concurrence and I don't  
11 know who that is, Under Secretary or Deputy Secretary  
12 or something level.

13 VINCE HOLAHAN: (b)(5)

14 (b)(5)  
15

16 GERRY GARINO: Yes, okay. (b)(5)

17 (b)(5)  
18  
19  
20

21 VINCE HOLAHAN: Okay. I can make sure I  
22 pass that along and let me catch your name again when  
23 I get a piece of paper and a pen. Your name again was?

24 GERRY GARINO: Gerry, G-E-R-R-Y, Garino.

25 VINCE HOLAHAN: Can you spell that please?

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1 GERRY GARINO: G-A-R-I-N-O.

2 VINCE HOLAHAN: All right, Gerry, thank you  
3 very much. I'll pass it along.

4 GERRY GARINO: Could I ask on this, on the  
5 new extreme source term with four pools going and four  
6 cores going is that, are you guys working that one?  
7 Are you actually going to generate that one?

8 MICHELLE HART: We're working on a scenario  
9 with three cores and four spent fuel pools, that's correct.

10 GERRY GARINO: Okay.

11 MICHELLE HART: That's something we should  
12 share with NARAC.

13 GERRY GARINO: Okay. Then we need a good  
14 unique name for that to distinguish it from the super  
15 core scenario that we've --

16 MICHELLE HART: Okay. Among ourselves we  
17 were calling it extreme case, but we'll think some more  
18 about that.

19 GERRY GARINO: Okay. And was there any  
20 follow up on whether the, on the definitive answer on  
21 the meltdown percent, I mean the release percent from  
22 Core 2?

23 MICHELLE HART: I hadn't done anymore  
24 thinking about it. I mean we do have to realize that  
25 this is not, the spent fuel pool there is no building

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1 around it whatsoever. For that particular case the  
2 building is retaining some of it as well --

3 GERRY GARINO: No, but the --

4 MICHELLE HART: -- from the core.

5 GERRY GARINO: -- just in terms of (b)(6)

6 (b)(6)

question. The question came up is it, for the  
7 super core source term is it 25 percent of the total  
8 core or 25 percent of the melted core that was released?

9 We were told and we put in the document that  
10 it's 25 percent of the total core, but, you know, back  
11 of the envelope calculation of the release inventory  
12 looks like it's more like 25 percent of the melted core.

13 MICHELLE HART: I would say given that the  
14 number's that are there, it is 25 percent of the melted  
15 core.

16 GERRY GARINO: Is there anyway to verify  
17 that or --

18 MICHELLE HART: The assumptions that went  
19 into that calculation were 33 percent of the core was  
20 melted.

21 GERRY GARINO: Yes.

22 MICHELLE HART: However the containment was  
23 still at least partially intact.

24 GERRY GARINO: Right.

25 MICHELLE HART: So the release you're seeing

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1 is from the containment. The only way we can verify  
2 it is just to do the calculations like he was doing,  
3 you know, for that overall number.

4 GERRY GARINO: Okay, so that, so when you  
5 do your calculations to get that, so where did this  
6 number 25 percent of the total core come from?

7 MICHELLE HART: I did not write that, but  
8 I don't know why they said that. I don't have any  
9 documentation on that.

10 GERRY GARINO: Is this Michelle?

11 MICHELLE HART: This is Michelle. Yes, hi,  
12 Gerry.

13 GERRY GARINO: Hi. Do we know who came up  
14 with that so we could verify this?

15 MICHELLE HART: They are not in the building  
16 now. They were on a previous shift, so I don't --

17 GERRY GARINO: Do they come in tomorrow?

18 MICHELLE HART: I don't know what the genesis  
19 of the 25 percent was. I probably, if I had sent it  
20 I wouldn't have said something along those lines. I  
21 would've just said this is 33 percent of fuel melting  
22 with a partially intact containment or whatever the  
23 assumptions were.

24 GERRY GARINO: Okay. So you're saying the  
25 25 percent really doesn't even enter into RASCAL, is

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1 that right?

2 MICHELLE HART: Right. The 25 percent was  
3 not put into RASCAL as an assumption.

4 GERRY GARINO: That's something that  
5 somebody came up with afterwards looking at the data?

6 MICHELLE HART: That's what it looks like,  
7 yes.

8 GERRY GARINO: Okay. I guess, so if we're  
9 certain about that, the only concern I have is that,  
10 you know, (b)(5)

11 (b)(5)

12  
13  
14  
15  
16  
17 MICHELLE HART: Okay. I understand.

18 GERRY GARINO: All right. Thanks,  
19 Michelle.

20 MICHELLE HART: All right. Thank you.

21 GERRY GARINO: Okay, bye.

22 MICHELLE HART: Bye.  
23  
24  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 PATRICIA HOLAHAN: PMT, this is Trish  
4 Holahan.

5 HEADQUARTERS OPERATIONS OFFICER:  
6 Transferring an individual from San Onofre.

7 PATRICIA HOLAHAN: Okay. Thank you.

8 HEADQUARTERS OPERATIONS OFFICER: Standby.

9 PATRICIA HOLAHAN: Hello?

10 MIKE MCBURITY (phonetic): Hi. This is Mike  
11 McBurity. I'm with Nuclear Regulatory Affairs at San  
12 Onofre.

13 PATRICIA HOLAHAN: Okay.

14 MIKE MCBURITY: So I --

15 PATRICIA HOLAHAN: And this is Trish Holahan.  
16 I'm the Director of the PMT tonight, Protective Measures  
17 Team.

18 MIKE MCBURITY: Okay, yes. We were asked  
19 by Region IV if we would make the call and let you know  
20 what we're seeing on air sampling that we've been doing  
21 --

22 PATRICIA HOLAHAN: Yes.

23 MIKE MCBURITY: -- at San Onofre. And I'm  
24 going to let one of our HP Specialists, John Scott, speak  
25 to that.

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1 PATRICIA HOLAHAN: Okay. Yes, we have his  
2 number.

3 JOHN SCOTT: Oh, you do?

4 MIKE MCBURITY: You do?

5 PATRICIA HOLAHAN: Yes. Region IV gave it  
6 to us.

7 MIKE MCBURITY: Okay.

8 PATRICIA HOLAHAN: But I was hoping you'd  
9 call because I didn't want to bother you while you were  
10 busy.

11 JOHN SCOTT: Yes, well we've been, as you  
12 can imagine, struggling to set up a program because neither  
13 our regulatory required radiological environmental  
14 monitoring program so it works real well for us because  
15 of the samples being counted by the DEL Laboratory in  
16 Georgia takes a two to three week turnaround.

17 PATRICIA HOLAHAN: Oh, okay.

18 JOHN SCOTT: Our routine in-plant air  
19 sampling program typically does not have the volume  
20 through the air sample that we need to get down to the  
21 detection levels that we want to look at.

22 PATRICIA HOLAHAN: Okay. So what's the  
23 limits of your detection?

24 JOHN SCOTT: Well if we run a 24-hour air  
25 sample our minimum detectible concentration for

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1 iodine-131 is in the range of  $2 \text{ E}^{-13}$  microcuries per cc.

2 That's with a 24-hour sample.

3 PATRICIA HOLAHAN: Okay.

4 JOHN SCOTT: So we ran a 24-hour sample that  
5 was running from the 16th at 2255 to the 17th at 2245,  
6 so it was virtually a 24-hour sampling. But we pulled  
7 that and analyzed it and we saw iodine-131 at  $1.4 \times 10^{-13}$   
8 microcuries per cc, which is above the 95 percent  
9 confidence level, but our detection limits are set at  
10 99 percent confidence level.

11 So we have to say that that is below our  
12 detection limits.

13 PATRICIA HOLAHAN: Okay.

14 JOHN SCOTT: So I had them pull the sample  
15 again this morning and it only had a 10-hour run on it.  
16 The program, actually a 9-hour run. It ran from 03/18  
17 at 0147 to 03/18 at 1007, and we counted it again and  
18 we were up to  $1.79 \text{ E}^{-13}$ , which is still below our detection  
19 limit, but now we're at 90 percent of the detection limit.

20 PATRICIA HOLAHAN: Okay.

21 JOHN SCOTT: So I still can't positively  
22 say the 99 percent confidence level that I'm seeing  
23 iodine-131 above our detection limit, but it looks like  
24 we are right at the verge of our minimum detectible activity  
25 of being able to confirm that there is iodine present.

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1 PATRICIA HOLAHAN: Okay.

2 JOHN SCOTT: I see no other, we are seeing  
3 no other particulate isotopes.

4 PATRICIA HOLAHAN: Okay.

5 JOHN SCOTT: We currently are not sampling  
6 for noble gas.

7 PATRICIA HOLAHAN: Okay. And then you said  
8 this was an independent sample, you're convinced that  
9 it wasn't from your site?

10 JOHN SCOTT: Well that's one thing I need  
11 to explain. Right now this sample that we ran, and we  
12 initially set it up and it is on our (indiscernible,  
13 possibly "turban") deck, so it is inside our protected  
14 area.

15 Our routine release through our plant vent  
16 vac is right at about this level for iodine. You know,  
17 we're in the  $1 E^{-13}$  to  $2 E^{-13}$  ranges, our routine release  
18 for iodine.

19 PATRICIA HOLAHAN: Okay.

20 JOHN SCOTT: So it's conceivable that this  
21 could be our own plant isotopes, but it's, I would have  
22 to be directing it directly from the plant vents back  
23 to the air sampler which is not the case, no dispersion.

24 PATRICIA HOLAHAN: Okay.

25 JOHN SCOTT: So I think it's unlikely,

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1 although it is conceivable, but once we get to the point  
2 where we are significantly above our detection limit  
3 which just coincidentally happens to be about the  
4 concentration releasing it for plant vents back, then  
5 I can definitively say yes I am or lacking that information,  
6 but I'm still in the same situation that I am unless  
7 I see nothing.

8 PATRICIA HOLAHAN: Okay. Now you're  
9 sampling from one air sampler?

10 JOHN SCOTT: Well that's what we have right  
11 now, but we've started the process yesterday to augment  
12 our sampling with a sample North of our plant, but still  
13 inside of our under controlled area, and one outside  
14 of our under controlled area co-located with one of our  
15 radiological environmental monitoring program samples.

16 PATRICIA HOLAHAN: Okay.

17 JOHN SCOTT: So we just started the first  
18 one this morning at 5:00 a.m. We started the second  
19 one at about 1600 local time and we will be pulling those  
20 tomorrow and we'll have long runs on them.

21 We are switching from the counting room inside  
22 the station, which also does our (indiscernible, possibly  
23 "radricon") analysis to a counting room that we have  
24 at our retired unit to minimize the potential for  
25 cross-contamination and to get a lower background as

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1 the one in the station has the high background because  
2 it's in the operating unit.

3 PATRICIA HOLAHAN: Okay.

4 JOHN SCOTT: But I did want to share with  
5 you the detection limits that we counted with this long  
6 sample for cesium, is  $60^{-14}$ . So we're less than that value  
7 on our particulate filters.

8 PATRICIA HOLAHAN: Okay.

9 JOHN SCOTT: But for (indiscernible,  
10 possibly "therium-144") our detection limit would be  
11  $2.4 E^{-13}$ .

12 PATRICIA HOLAHAN: 2.14?

13 JOHN SCOTT: 2.4.

14 PATRICIA HOLAHAN: Okay. E- --

15 JOHN SCOTT: Thirteen. So we haven't seen  
16 any particulates above those levels, at least with those  
17 two (indiscernible) isotopes.

18 PATRICIA HOLAHAN: Okay.

19 JOHN SCOTT: Now we are, like I said, going  
20 to be sampling. I have people set up to come in over  
21 the weekend to pull and analyze those samples and then  
22 as we get up to speed on Monday we're also going to be  
23 starting to do deposition evaluation.

24 And I can share with you that, unlike many  
25 licensees, we have pressurized ion chambers permanently

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1 installed outside the perimeter of our plant and our  
2 pressurized ion chambers typically read six to eight  
3 micro (indiscernible) per hour, and we have seen no change  
4 in any of those monitors.

5 PATRICIA HOLAHAN: Okay.

6 JOHN SCOTT: So that's all the data we have.  
7 We'll have more for you. And if we see anything  
8 significant we'll work with the licensing organization  
9 and get back to you, but at this point I can't confirm  
10 that I am above my minimum detectible activities.

11 PATRICIA HOLAHAN: Okay. All right. Well  
12 thank you very much. But, you know, when you get more  
13 information let us know either way.

14 JOHN SCOTT: Okay. I can make sure that  
15 the staff will work with the Regulatory Affairs group  
16 and pass that information on.

17 PATRICIA HOLAHAN: Okay.

18 MIKE MCBURITY: Trish, are you looking for  
19 a specific frequency for updates?

20 PATRICIA HOLAHAN: Basically once a day,  
21 I think.

22 MIKE MCBURITY: Okay. That's if that what  
23 you're getting from other plants like Diablo?

24 PATRICIA HOLAHAN: Yes. They're now  
25 sampling every four hours. And they called me today

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1 and they're going to get back to me tomorrow.

2 JOHN SCOTT: Hey, Trish, let me ask you on  
3 their 4-hour samples does that significantly reduce their  
4 minimum detectible activity or are they running high  
5 volume air samples?

6 PATRICIA HOLAHAN: They're running high  
7 volume air samples.

8 JOHN SCOTT: Okay.

9 PATRICIA HOLAHAN: So their minimal  
10 detectible is 1 to 2 E<sup>-13</sup>.

11 JOHN SCOTT: Okay. So they're --

12 PATRICIA HOLAHAN: So it's about the same.

13 JOHN SCOTT: They're compensating for the  
14 long sample by drawing at a higher flow rate?

15 PATRICIA HOLAHAN: Yes.

16 JOHN SCOTT: Okay. Have you heard anything  
17 from Columbia?

18 PATRICIA HOLAHAN: No, I haven't.

19 JOHN SCOTT: Okay. All right. Well we'll  
20 go back and look at getting something that gets us a  
21 higher flow rate, I just, I don't know if we have anything  
22 that can do that.

23 PATRICIA HOLAHAN: Okay.

24 MIKE MCBURITY: So what I heard is, it sounds  
25 like what you're getting from Diablo is comparable to

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1 what we're reporting?

2 PATRICIA HOLAHAN: Yes.

3 MIKE MCBURITY: Okay.

4 JOHN SCOTT: So they're about the same  
5 minimum detectible activity and I had heard earlier today  
6 they reported  $60^{-13}$ ?

7 PATRICIA HOLAHAN: Yes,  $60^{-13}$ , and on the outer  
8 ring it was  $3.8 E^{-13}$ .

9 JOHN SCOTT: Oh, okay. So they had some,  
10 I talked to the Supervisor up there yesterday and he  
11 was co-locating with his REMP samples so it sounds like  
12 his REMP samples are showing down at the same level that  
13 we are and his inside the plant is showing higher than  
14 we may be affected by his --

15 PATRICIA HOLAHAN: Yes.

16 JOHN SCOTT: -- cooperation.

17 PATRICIA HOLAHAN: Yes.

18 JOHN SCOTT: Okay.

19 PATRICIA HOLAHAN: So, anyways. But --

20 JOHN SCOTT: Well we suspected to, that's  
21 why we're moving towards getting some samplers further  
22 out.

23 PATRICIA HOLAHAN: Okay. All right. Well  
24 anything you can give us will help.

25 JOHN SCOTT: All right.

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1 MIKE MCBURITY: Hey, Trish. This is Mike  
2 McBurity again. As far as what you're using the  
3 information for, I mean, would we expect to see this  
4 in the media?

5 PATRICIA HOLAHAN: No. You know, not from  
6 us.

7 MIKE MCBURITY: Okay.

8 PATRICIA HOLAHAN: We're just monitoring  
9 it and making sure that nothing significant is coming  
10 over to this Country.

11 MIKE MCBURITY: Okay. I understand.

12 JOHN SCOTT: All right. So, Patricia, tell  
13 me what you would classify as significant so we would  
14 know if we see that number to expedite communication  
15 with you. Do you have a feel for what you're looking  
16 for?

17 PATRICIA HOLAHAN: I don't. I can ask my  
18 folks what they think.

19 JOHN SCOTT: All right. Well we'll just  
20 keep communicating what we got. I just wanted to know  
21 if you had predefined trigger.

22 PATRICIA HOLAHAN: Yes, if you could.

23 JOHN SCOTT: Okay.

24 PATRICIA HOLAHAN: And maybe we'll have a  
25 better answer for you tomorrow.

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25

JOHN SCOTT: Okay.

PATRICIA HOLAHAN: Okay.

MIKE MCBURITY: Okay.

PATRICIA HOLAHAN: All right. Thanks very  
much.

MIKEMCBURITY: Okay. You have a good night.

PATRICIA HOLAHAN: You too.

MIKE MCBURITY: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 PATRICIA HOLAHAN: PMT, Director Trish  
4 Holahan. Hello?

5 HEADQUARTERS OPERATIONS OFFICER: Hey,  
6 Trish. This is Norwood. I got Mr. Foster on the line  
7 for you.

8 PATRICIA HOLAHAN: Okay.

9 HEADQUARTERS OPERATIONS OFFICER: Hold.

10 PATRICIA HOLAHAN: Okay, thanks. Hello?

11 JACK FOSTER: Hey, Trish. Jack Foster, how  
12 are you?

13 PATRICIA HOLAHAN: Good. How are you?

14 JACK FOSTER: Not too bad. You caught some  
15 information that was being discussed on the AT bridge  
16 earlier today.

17 PATRICIA HOLAHAN: Yes.

18 JACK FOSTER: Is this a good time for you?

19 PATRICIA HOLAHAN: Yes.

20 JACK FOSTER: I mean never is a good time,  
21 but it is acceptable to talk to you right now about that?

22 PATRICIA HOLAHAN: Yes.

23 JACKFOSTER: Okay. Just to give you a little  
24 bit of background, you know, this is sort of sketchy  
25 for me --

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1 PATRICIA HOLAHAN: Okay.

2 JACK FOSTER: -- but Chuck had mentioned  
3 that he had had a meeting with the Ambassador and  
4 essentially the Ambassador wanted what they had called  
5 (b)(5) and what I think he means by that and I'm  
6 trying to follow up --

7 PATRICIA HOLAHAN: Just a minute, Jack.  
8 Can I put you on the speaker?

9 JACK FOSTER: Yes, you're on the speaker.  
10 I mean, yes, you can put me on the speaker.

11 PATRICIA HOLAHAN: Okay.

12 JACK FOSTER: Okay.

13 PATRICIA HOLAHAN: Are you there?

14 JACK FOSTER: Okay.

15 PATRICIA HOLAHAN: Okay.

16 JACK FOSTER: So essentially what has  
17 transpired is the Ambassador had a meeting with Chuck  
18 and the request is that (b)(5)  
19 and the actions associated with it, and I think what  
20 they mean by that is that just recently there (b)(5)  
21 (b)(5) was that that dependants of Federal workers or  
22 Government workers would be allowed to go home.

23 So I'm trying to pull a thread on this exactly,  
24 you know, how we're going to go forward (b)(5)  
25 (b)(5) But in the meantime I'm also getting the

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1 data for the monitoring points around Daiichi that you  
2 had talked about earlier.

3 PATRICIA HOLAHAN: Okay.

4 JACK FOSTER: Okay, so I'm assuming that  
5 if I get those and I'm able to get those to you on a  
6 regular basis that I would just send it to P-M-T-02 at  
7 H-O-C dot N-R-C dot G-O-V?

8 PATRICIA HOLAHAN: P-M-T-12.

9 JACK FOSTER: P-M-T-12 at H-O-C, right?

10 PATRICIA HOLAHAN: P-M-T-12 dot H-O-C at  
11 N-R-C dot gov.

12 JACK FOSTER: Got it.

13 VINCE HOLAHAN: Hey, Jack?

14 JACK FOSTER: Yes, who is this?

15 VINCE HOLAHAN: It's Vince Holahan.

16 JACK FOSTER: Hey, Vince. How are you?

17 VINCE HOLAHAN: Not too bad. Have you guys  
18 seen any of the DOE aerial monitoring results?

19 JACK FOSTER: Yes, actually I'm not able  
20 to get the actual data here because I guess you have  
21 to log in on CMweb and we don't have access to it now.

22 VINCE HOLAHAN: Do you have internet?

23 JACK FOSTER: I know Lou Brandon does and  
24 some other folks there may also, but haven't seen that  
25 data. And that data from what I understand is not

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1 necessarily what is needed to, you know, at the, sort  
2 of ground zero so to speak.

3 VINCE HOLAHAN: Hey, Jack, hold on. Do you  
4 have an internet address?

5 JACK FOSTER: Yes. If you just send it to  
6 my, Jack Foster at N-R-C dot gov that would work or,  
7 you know, the liaison team has our overall list of folks  
8 that are in Japan that you could send it to that.

9 But if it's just pertaining to PMT type stuff  
10 you could just send it directly to my email address for  
11 the PMT.

12 VINCE HOLAHAN: Okay. The reason I say that,  
13 we just got in the last couple of hours the results from  
14 the flights that they did on the 17th and 18th and there  
15 are a number of areas to the Northwest of the plant between,  
16 my guess would be 15 to 20 miles where the (indiscernible,  
17 possibly "board a") dose to the ground deposition is  
18 going to be between 2 to 4 rem, which --

19 JACK FOSTER: Exactly. I mean it's pretty  
20 elevated. I have seen that track, the latest track,  
21 but it's just a track I don't have the data.

22 VINCE HOLAHAN: Well what we're doing, is  
23 we're looking at it, it's color coded --

24 JACK FOSTER: Okay.

25 VINCE HOLAHAN: -- and they've got it at

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1 10 to 20 mr per hour and they've got points at 20 to  
2 40 mr per hour and if you multiply that by 96 hours,  
3 boom, you're getting these 2 to 4 rem doses.

4 (b)(5)

5  
6  
7 JACK FOSTER: Okay. Now that's good. The

8 (b)(5)

9 that we're talking about is not  
10 necessarily the protective measure, the protective  
11 actions for the civilian side.

12 (b)(5)

13  
14 But I agree with you. If you could write  
15 that up and send that in an email your thoughts on that  
16 then we can start rolling with that side of the issue  
17 as well.

18 VINCE HOLAHAN: Now I don't know who's --

19 JACK FOSTER: Does that make sense Trish  
20 and Vince?

21 VINCE HOLAHAN: Yes.

22 JACK FOSTER: We actually have two things  
23 here. One is the civilian, the civil service type of  
24 (b)(5) that we're going to, that the next event is,  
25 you know, once we hit that threshold, and perhaps we'll

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1 start sending civilian employees, you know, our fellow  
2 service employees home, except for exempt ones that are,  
3 you know, important to have here.

4 I meant, most people are important to have  
5 here anyway, but we need to be thinking about in terms  
6 of that particular (b)(5) But I do agree with you  
7 that the elevations are pretty high and perhaps there  
8 needs to be a reconciliation of what the exclusion's  
9 on right now. Okay?

10 VINCE HOLAHAN: Agreed.

11 JACK FOSTER: Okay. So my takeaway is that  
12 you guys are going to start thinking about (b)(5)

13 I'll provide more information as it unfolds. The second  
14 thing is I'll also try to provide on a routine basis  
15 some of the monitoring points that are around, within  
16 the compound so to speak of Daiichi, okay?

17 I do know that, I've met with NISA several  
18 times and the last time I met with them they said, I  
19 mean they showed me, and this was a couple of days ago,  
20 but they showed me a spreadsheet that actually had all  
21 the monitoring points on an hour by hour basis and then  
22 a key shape that showed a map of the area with all the  
23 plants and where those monitoring stations were.

24 It's similar to the data that was first  
25 released by IEEA, but this is more current and from my

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1 understanding with the NISA, and NISA oh, by the way,  
2 is sort of the counterpart for the NRC. They have a  
3 different structure, a little bit of a different  
4 structure.

5 And JNES (phonetic) is sort of the inspection  
6 side of it and although they're not necessarily a Federal  
7 Agency like NISA is they are a sort of a brother or,  
8 you know, a connected type of regulatory situation.  
9 Kind of different, kind of strange, but that's the way  
10 they do it.

11 But in any case, I've got a phone call in  
12 with NISA and I think we're going to meet later on today,  
13 and even if we don't meet later on today, we'll make  
14 sure that we start getting the data that you guys  
15 desperately need regarding a dose at different points  
16 around Daiichi compound, okay?

17 VINCE HOLAHAN: Okay, hold on, Jack.

18 JACK FOSTER: Okay.

19 BILL RULAND: This is Bill Ruland. Hey,  
20 Jack.

21 JACK FOSTER: Hey, Bill. How are you?

22 BILL RULAND: Good. I just talked to the  
23 Chairman and the Chairman said he wants a list of all  
24 the dose information that we need and wants us to give  
25 it to him.

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1                   And if it's going up to him it's got to be  
2 the high level. So if you write that down, we give it  
3 to the Chairman and he claims he will do whatever it  
4 is, whether it's DOE --

5                   JACK FOSTER: Okay. I don't think pushing  
6 from that way is necessary at this point, Bill, but I  
7 do, let me give it one good try to make sure that NISA  
8 will provide that.

9                   I want to get a confirmation. I got somebody  
10 on the phone right now in the other room trying to connect  
11 with the right people over there, okay?

12                  BILL RULAND: Okay. Well --

13                  JACK FOSTER: But I do realize what you're  
14 saying, and I, we have had, you know, from the Ambassador  
15 all the way down, if you can't get it done let us know.

16                  And, yes, I will, if you want, Bill, I'll make sure  
17 that if it comes to a point where I cannot get the data,  
18 I will let you know --

19                  BILL RULAND: Okay, well --

20                  JACK FOSTER: -- and the type of data it  
21 is, okay?

22                  BILL RULAND: Yes, well --

23                  JACK FOSTER: Is that what you're asking?  
24 I'm sorry if I'm cutting you off.

25                  BILL RULAND: No, no.

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1 VINCE HOLAHAN: Hey, Jack.

2 JACK FOSTER: Yes, sir.

3 VINCE HOLAHAN: Just one kind of light note.

4 JACK FOSTER: Yes.

5 VINCE HOLAHAN: It's not the generic safety  
6 issue program.

7 JACK FOSTER: Oh, yes. And you know what  
8 that makes me smile.

9 VINCE HOLAHAN: Okay. Now that we got that  
10 over, are we certain that the dose data needs that we  
11 have here in Headquarters is the same as the dose data  
12 needs that they have at the site? Do we know that?

13 JACK FOSTER: I don't know. I don't know  
14 if they pair up, but if I do get that, the spreadsheet,  
15 and the location, then at least Headquarters can look  
16 at it and say, yes, thumbs up, thumbs down, right? But,  
17 you know --

18 BILL RULAND: Okay. Now, but give me a  
19 timeframe when you're thinking of having this answer  
20 that yes, no, you're going to get the data.

21 JACK FOSTER: You know, the clock is burning  
22 right now and the longer I stay on the phone, I would  
23 say I'll try to get back to you in an hour or so. And  
24 this is important for the PMT to have, right? I mean  
25 it's a critical point for the PMT to have.

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1 VINCE HOLAHAN: Well, Jack, what we're doing  
2 is we're trying to figure out what the doses look like  
3 around the different facilities. I mean are there danger  
4 areas where we cannot go into one way or the other?

5 BILL RULAND: I'm leaving. Jack, thank you.  
6 I'm leaving. I'll let you guys do your thing. Actually  
7 the reason I need to get this answer is the Chairman  
8 told me to go do this. So last time I checked, I worked  
9 for him.

10 JACK FOSTER: Okay.

11 BILL RULAND: So I want to make sure --

12 JACK FOSTER: Bill, don't leave yet, okay.

13 BILL RULAND: -- (indiscernible) not going  
14 to give any information to him.

15 JACK FOSTER: Bill, just hang around a little  
16 bit. Vince, standby just a second. You want to know  
17 a timeframe. Okay, I'll tell you two hours from right  
18 now hopefully we'll get the data. I mean I, this is,  
19 you know --

20 BILL RULAND: Okay.

21 JACK FOSTER: -- beyond my control, Bill

22 --

23 BILL RULAND: Okay.

24 JACK FOSTER: -- to give you an exact time.

25 BILL RULAND: No, no. I understand that.

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1 I'll go talk to the Chairman --

2 VINCE HOLAHAN: We'll be here.

3 BILL RULAND: -- and I'll tell him this.

4 JACK FOSTER: Okay, you know, (b)(5)

5 (b)(5)

6  
7 BILL RULAND: And you're working through  
8 NISA?

9 JACK FOSTER: I'm working through NISA and  
10 they may end up, you know, having to get the data from  
11 JNES and, Bill, as soon as I get any information on it  
12 I will tell the PMT, Trish, or Beth, and let them know  
13 that they need to forward that information to you, okay?

14 BILL RULAND: Okay. (b)(5)

15 (b)(5)

16  
17 JACK FOSTER: And that's fine, (b)(5)

18 (b)(5)

19 BILL RULAND: Okay.

20 JACK FOSTER: You hear what I'm saying?  
21 I don't think they do. I mean if they do then, you know,  
22 good on, but I haven't heard anything about that and  
23 we're talking about ground level, ground zero monitoring  
24 that's going on right now that NISA has set up, okay.

25 BILL RULAND: Thank you.

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1 JACK FOSTER: And I had seen a couple of  
2 days ago the spreadsheets that they had and I already  
3 requested that they periodically send them to us. Now  
4 there is a little bit of a lag there because a lot of  
5 the information is in Japanese and we have interpreters  
6 here, translators here that will have to hand mark them  
7 and then we'll PDF them and send them to you.

8 But that's just the way it is. And, Bill,  
9 like I said, I will, as soon as I, you know, get the  
10 handshake going you'll be the first to know.

11 VINCE HOLAHAN: Okay, Jack. If there's --

12 JACK FOSTER: We're working on it real hard.

13 VINCE HOLAHAN: -- anything you need let  
14 us know, too.

15 JACK FOSTER: Yes, well that's what I'm  
16 saying, Vince. Vince is going to be the, or the PMT,  
17 will be the first people to get the data and I will let  
18 them know also when it's coming.

19 VINCE HOLAHAN: And I'll send that file to  
20 you here in the next couple seconds.

21 JACK FOSTER: Okay, I do appreciate it.  
22 Bill, are we okay?

23 VINCE HOLAHAN: He's gone.

24 JACK FOSTER: Okay. He walked off while  
25 I was talking --

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1 VINCE HOLAHAN: Yes, but I'm here for you,  
2 Jack.

3 JACK FOSTER: -- (indiscernible) Bill.  
4 Huh?

5 VINCE HOLAHAN: I'm here for you.

6 JACK FOSTER: Okay. I'll talk to you later.

7 VINCE HOLAHAN: Okay. Bye for now.

8 JACK FOSTER: Bye-bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 VINCE HOLAHAN: PMT, Vince Holahan. This  
4 is a recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: Standby,  
6 I'm transferring a member of the Expand Team.

7 VINCE HOLAHAN: Hello?

8 JACK FOSTER: Hi, Jack Foster. Who am I  
9 speaking to?

10 VINCE HOLAHAN: Hey, Jack. It's Vince.

11 JACK FOSTER: Vince, how's everything.

12 VINCE HOLAHAN: Hey, just finished dinner.

13 JACK FOSTER: Okay, that's great. I just  
14 wanted to kind of give you another update. You may want  
15 to put us on speaker phone if you'd like.

16 VINCE HOLAHAN: I've done that.

17 JACK FOSTER: If everybody, if you have the  
18 time. Is this a good time?

19 VINCE HOLAHAN: Yes. We got Michelle Hart  
20 here, too. So, I mean, she can listen in.

21 JACK FOSTER: Okay. Just a quick overview  
22 of what we got going right now for the data that we're  
23 trying to get to you. I went ahead and got the PDF from  
24 NISA, Mr. Motta (phonetic), and most of it, a lot of  
25 the headers and everything are in Japanese.

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1 I think you can for the most part read the,  
2 you know, the units are in microsieverts per hour. It  
3 has the column at the top of the actual timeframe and  
4 then it also is separated by the monitoring point, which  
5 there is a map that goes with it that shows where the  
6 monitoring points are around the Daiichi compound.

7 Okay, so we're going to go ahead and have  
8 a translator, interpreter, go over and look at it, but  
9 I thought if you would like I can go ahead and send you  
10 the PDF version of this immediately if you want to just  
11 take a look at it and get your thoughts on it because  
12 there may be other things you have questions about.

13 VINCE HOLAHAN: Jack, why don't you --

14 JACK FOSTER: Does that reasonable?

15 VINCE HOLAHAN: Jack, go ahead and do that.

16 The reason, I've got two folks here that speak Japanese.

17 JACK FOSTER: Awesome. Maybe you can  
18 translate it and send it back to us.

19 VINCE HOLAHAN: Okay.

20 JACK FOSTER: Just kidding. With that being  
21 said, I also have an individual with me from DOE and  
22 we had already talked about the (b)(5) aspect of the  
23 threshold in which we would take the next level in sort  
24 of a protective action or a protective measure type  
25 situation for here in Tokyo.

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So I'm going to let him speak to it. His name is Bruce Howard (phonetic), and like I say he's with the Safety Department?

BRUCE HOWARD: State Department.

JACK FOSTER: State Department, excuse me.

So he knows some of the lingo here and so I'll hand it over to Bruce. Thank you, Bruce.

BRUCE HOWARD: Hi. (b)(5)

(b)(5)

(b)(5)

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1 (b)(5)  
2  
3  
4  
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6  
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12

13 JACK FOSTER: And I think, Vince, the science  
14 based aspect of it could get us, also include, you know,  
15 like the RASCAL runs and, you know, the MET data associated  
16 with the change of, I guess, the plume direction that  
17 it's heading towards Tokyo and the stability class and  
18 the like.

19 VINCE HOLAHAN: Okay, Jack, Bruce, I'm just  
20 picking off the top of my head right --

21 JACK FOSTER: Do you think (indiscernible)  
22 assigned to the basis would have to be more in line with  
23 the threshold and also the probability, a possibility  
24 of, you know, change in direction of the plume.

25 VINCE HOLAHAN: Hey, Jack?

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1 JACK FOSTER: Yes.

2 VINCE HOLAHAN: Hey, here's my thought on  
3 that. What we can do is we can defer back to the 1992  
4 EPA PAGs --

5 JACK FOSTER: Okay.

6 VINCE HOLAHAN: -- put you in an emergency  
7 phase that if you're going to exceed 2 rem, let's say  
8 in Tokyo, normally you would have to evacuate that area.

9 JACK FOSTER: Okay.

10 VINCE HOLAHAN: And then we can't return  
11 to that area if the dose in the first year is greater  
12 than 2 rem and it has to be greater than 500 millirem  
13 in the second year.

14 JACK FOSTER: Okay.

15 VINCE HOLAHAN: That might be a  
16 consideration to look at. (b)(5)  
17 would be a 2 rem exposure. The other thing you might  
18 do is just declare those workers to be emergency workers  
19 and we can kick that up to 5 rem. So that's what you'd  
20 be able to --

21 JACK FOSTER: You know what? I think that  
22 what we do on this, and I think you're going down an  
23 exact perfect path, and I think that ultimately we're  
24 going to have to brief the Ambassador and probably the  
25 other folks.

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1 So as we're working through this model can  
2 we develop the PowerPoint presentation or the step methods  
3 that we're taking to make these determinations. Okay?

4 MALE PARTICIPANT: He wants us to do it here?

5 MICHELLE HART: Do you want us to do it here?

6 JACK FOSTER: If you would do that and that  
7 way we can sort of have the logical sequences of, I mean,  
8 you know, the justification or the understanding, I think  
9 you guys have a better understanding than I do, you know.

10 And it doesn't have to be elaborate. We're  
11 talking maybe a page or two, you know, of a PowerPoint  
12 presentation.

13 VINCE HOLAHAN: Okay.

14 MICHELLE HART: Okay.

15 JACK FOSTER: With some bullets.

16 BRUCE HOWARD: If I could add in one thing,  
17 that your mention of emergency workers would fit very  
18 well into what we do. Right now all dependants are allowed  
19 to leave, about half of them have left.

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

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1 (b)(5)  
2

3 VINCE HOLAHAN: Yes. Let us pull something  
4 together, send it to Jack, he can take a look at it,  
5 and edit the file however you'd like.

6 BRUCE HOWARD: That would be wonderful.

7 (b)(5)  
8  
9  
10  
11

12 JACK FOSTER: Yes, actually, I think the  
13 idea is that Chuck Casto is going to be talking with  
14 him around 6:00 tonight, our time, which is about 7 hours  
15 from now.

16 So, you know, I don't think, we're not going  
17 to have all, everything completed, but at least have  
18 a sort of general direction in which we're going, some  
19 of the highlights of what we're thinking.

20 BRUCE HOWARD: Down and dirty rough draft?

21 JACK FOSTER: Yes, quick and dirty. You  
22 know, starting out and, you know, are you okay with that  
23 Vince?

24 VINCE HOLAHAN: Yes. Let me start working  
25 on something for you.

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1 JACK FOSTER: Okay. Now like I said I want  
2 to go ahead and send this information that I got to P-M-T-12,  
3 you know, H-O-C dot N-R-C dot G-O-V. If you have any,  
4 you know, questions, you can call us up.

5 Do you have ability to, yes, I guess you  
6 call the HOO and they can call out, right? And I'll  
7 give you the numbers here if you want to call me direct.

8 Okay, the line here is 03 --

9 VINCE HOLAHAN: Hold on.

10 MICHELLE HART: Wait.

11 JACK FOSTER: Okay.

12 BRUCE HOWARD: Hold on. There's a better  
13 way, they can call through the State Department.

14 JACK FOSTER: Do you want to tell them or  
15 do you have it written down?

16 BRUCE HOWARD: I've got the number on my  
17 (indiscernible). Hang on, I'll be right back.

18 JACK FOSTER: Okay, this is a direct line  
19 into the --

20 BRUCE HOWARD: It is, but that's an  
21 International call.

22 JACK FOSTER: Okay. Okay.

23 BRUCE HOWARD: There's a way they can call  
24 directly through, well (indiscernible).

25 JACK FOSTER: I'll give them this one.

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1 BRUCE HOWARD: It'd be 011 --

2 JACK FOSTER: Okay.

3 BRUCE HOWARD: -- then you have 2, get the  
4 International, right --

5 JACK FOSTER: Okay.

6 BRUCE HOWARD: -- and then 81 for Japan and  
7 then 3 for Tokyo, 3224 5000, that's the Embassy operator,  
8 and our number would be this one here.

9 JACK FOSTER: Okay.

10 BRUCE HOWARD: Consider (indiscernible).

11 JACK FOSTER: Okay. Okay are you ready?

12 VINCE HOLAHAN: Ready to copy.

13 JACK FOSTER: Okay. Yes, the Country Code  
14 and we'll go down from the Country Code, City Code, you  
15 know, it's 011 81 3 3224 and then the last four digits,  
16 I'm going to give you two last four digits because they  
17 go different places, but this 5000 is one and that goes  
18 to the State Department --

19 BRUCE HOWARD: It goes to the Embassy  
20 Operator and you can track down anybody you want.

21 JACK FOSTER: -- Embassy Operator and  
22 basically they have, you know, a case key list including  
23 myself on it and all the other NRC team members in Japan  
24 and they can do it.

25 But if you want to go directly into our EOC

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1 so to speak, then 5066, and whoever picks the phone up  
2 just ask them for whoever you need to talk to, okay.  
3 Have you got that, Vince? And all those numbers I started  
4 out with and then the last four, there's one that's the  
5 Embassy and then there's one that goes directly into  
6 our room.

7 VINCE HOLAHAN: Okay, for example, if I want  
8 to go into to your room that would be 011 81 3 3224 5066?

9 JACK FOSTER: Exactly. Exactly. Then if  
10 I'm not in that room or if you need to talk to anyone  
11 else in the Embassy, basically you could just call the  
12 other number and ask by name for that person and probably  
13 get them pretty quick.

14 So be expecting this spreadsheet, it's about  
15 12 pages, you know, if you could take the data as is  
16 and make sense out of it it would save us some critical  
17 time that we're tight on for doing other things, but  
18 if you can take it as is let me know and then we'll make  
19 sure that it goes on a periodic basis of at least 12  
20 hours, yes, every 12 hours.

21 VINCE HOLAHAN: Okay, Jack.

22 JACK FOSTER: And it'll be there in a few  
23 minutes.

24 VINCE HOLAHAN: Very good.

25 JACK FOSTER: Okay. Talk to you later.

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VINCE HOLAHAN: Okay. Be good.

MICHELLE HART: Bye-bye.

JACK FOSTER: Talk to you, bye-bye.

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**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Japan's Fukushima Daiichi  
PMT RAAD ASST Director Audio Files

Docket Number: N/A

Location: N/A

Date: March 19, 2011

Work Order No.: NRC-4222

Pages 1-201

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI  
5 PMT RAAD ASST DIRECTOR AUDIO FILES

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7 SATURDAY,  
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1 (CONFERENCE CALL INITIATED)

2 0%HIH#5\_04065094

3 ANSWERING MACHINE: You have reached the  
4 Nuclear Regulatory Commission Resident Inspector's  
5 office at Diablo Canyon.

6 The Resident Inspector is not in the office.

7 If your call is an emergency, please call the NRC  
8 Operations Officer collect at Area Code 301-816-5100.

9 The number again is Area Code 301-816-5100.

10 If your call is not an emergency, please  
11 leave your name, the time and date you called, your message  
12 and your telephone number at the sound of the tone.  
13 And the Resident Inspector will return your call.

14 Hi, this is Greg Casto. And I'm at  
15 Headquarters. I'm in the Operations Center right now.

16 I'd like to speak to one of the residents.

17 Reason for the call is to get further  
18 information on a rumor that we have from either Diablo  
19 Canyon or SONGS, and I believe this was licensee personnel  
20 who took air samples and got iodine activities or  
21 concentrations.

22 And we're not even sure what the  
23 concentrations were. But anyway, it's being attributed  
24 to the Japanese incident at Fukushima.

25 If somebody can give a call back, I'm at

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the Protective Management Team table. And the phone number at the desk is 301-816-5415.

But the best number would probably be through the HOO at 301-816-5100 and ask for the PMT. And we'll be able to tell you what we're looking at.

And maybe you can help us with understanding what we're hearing. Please give me a call when you get this message. Thank you. Bye.

1 (CONFERENCE CALL INITIATED)

2 0%HINT\$L04065094

3 GREG CASTO: NRC Operations Center.

4 MALE PARTICIPANT: Hello, I have Jack Foster  
5 on the other line.

6 GREG CASTO: Yes.

7 MALE PARTICIPANT: Hold on please.

8 JACK FOSTER: Yes.

9 GREG CASTO: Hello, is this Jack?

10 JACK FOSTER: Yes, this is Jack. How's it  
11 going? Who is this, Greg?

12 GREG CASTO: This is Greg, yep.

13 JACK FOSTER: Yeah, listen,

(b)(5)

14 (b)(5)

15 (b)(5)

If you want to put me on speaker  
16 phone that's okay too. Who all do you have there?

17 GREG CASTO: Right now just me.

18 JACK FOSTER: Okay, well that's cool. Then  
19 no speaker phone needed. I have a State Department  
20 individual here named Bruce Howard.

21 GREG CASTO: Okay.

22 JACK FOSTER: And also I've been working  
23 with the DOE folks, and they're connected to the NARAC  
24 modeling thing that they've got going.

25 And also recently I think I've sent you some

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1 data from NISA regarding the monitoring positions at  
2 Daiichi, okay? Some of it's in Japan. So when I talked  
3 to Trish and Vince Holahan they said they would get to  
4 me if they needed to on that data.

5 GREG CASTO: Okay.

6 JACK FOSTER: So that data should be pretty  
7 close to real time. I just got it from the regulatory  
8 agency similar to ours earlier today, which means early  
9 this morning for me, probably earlier last night for  
10 you guys.

11 GREG CASTO: Okay.

12 JACK FOSTER: You should see the mail  
13 somewhere on pmt12, hoc.nrc.gov. But all that being  
14 said --

15 GREG CASTO: Yes.

16 JACK FOSTER: -- apparently Chuck had gone  
17 up to the Ambassador at a request to look at some data  
18 that DOE had provided.

19 And essentially they have a hypothetical  
20 model that had a 12 core release scenario. And I guess  
21 the original question was for us to determine (b)(5)

22 --

23 GREG CASTO: Right.

24 JACK FOSTER: -- (b)(5) in the way of  
25 at what point of a scenario would there be actions

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1 associated with evacuation of Government employee  
2 dependents/Government employee non-emergency personnel  
3 and (b)(5) in other words  
4 all Government personnel.

5 GREG CASTO: And I have seen that somewhere,  
6 yes.

7 JACK FOSTER: And actually my kudos, hats  
8 off to the Holahans. They sent me a two-page thing that  
9 basically drove the thresholds, they basically drew out  
10 at what point do you cross that line for the trip levels  
11 --

12 GREG CASTO: Okay.

13 JACK FOSTER: -- or (b)(5)

14 GREG CASTO: Right.

15 JACK FOSTER: And I don't have any problem  
16 with that. But I think that what I need to is understand  
17 where you guys are at with any type of analysis. Because  
18 I just talked to Chuck, and he said you guys were doing  
19 analysis on things.

20 GREG CASTO: Okay.

21 JACK FOSTER: Now, when I just talked to  
22 the DOE guys, Greg --

23 GREG CASTO: Uh-huh.

24 JACK FOSTER: -- they had mentioned that,  
25 I think, NARAC and maybe you and NARAC, but they said

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1 that they were doing an analysis on a full offload of  
2 a three core, four pool release and a plume model on  
3 it.

4 GREG CASTO: Three core, four pool?

5 JACK FOSTER: Three core, four plume, I mean  
6 four pool.

7 GREG CASTO: Four pool, okay.

8 JACK FOSTER: Sound familiar?

9 GREG CASTO: It doesn't, but I'm looking  
10 at Randy. I don't believe that is the case. I'm going  
11 to --

12 JACK FOSTER: Okay, well, can you tell me  
13 what you guys are working?

14 GREG CASTO: Okay, hold on. I'm going to  
15 attempt to put this on speaker. And I've got Randy right  
16 here.

17 JACK FOSTER: Okay. If I loose you I'll  
18 just call you back.

19 GREG CASTO: Okay, here we go. Randy, I've  
20 got Jack Foster.

21 RANDY SULLIVAN: Yes, Jack. Here you go.  
22 Jack? Hi, Jack.

23 GREG CASTO: Can you hear us?

24 JACK FOSTER: Hey, how's it going? Who is  
25 this, Randy Sullivan?

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1 GREG CASTO: Yes. Randy and me. Okay,  
2 first question for Randy that I heard from you is what  
3 models are we working on. Jack understands that DOE  
4 is working on a three core, four pool --

5 RANDY SULLIVAN: Yes.

6 GREG CASTO: -- model.

7 RANDY SULLIVAN: Yeah.

8 JACK FOSTER: Full offload, right?

9 RANDY SULLIVAN: Yeah. That's exactly  
10 right, Jack. I think Kathy just came back from an ET  
11 briefing. We may have been redirected.

12 We worked up a source term a day ago. And  
13 it was used to assess the impact on the U.S.

14 JACK FOSTER: Okay.

15 RANDY SULLIVAN: Alaska.

16 JACK FOSTER: Okay. I was telling Greg just  
17 a minute ago, we got a request from the Ambassador basically  
18 to figure out where the (b)(5) are associated with  
19 individual Government workers and how they are required,  
20 at certain levels of --

21 RANDY SULLIVAN: We've got the (b)(5)

22 I understand.

23 JACK FOSTER: -- required to leave. In other  
24 words, at (b)(5) 1 it would be the individual people,  
25 not necessarily the Government worker but their

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1 dependants.

2 And at (b)(5) it would be actually the  
3 mandatory of non-essential people. And then (b)(5)

4 (b)(5) it's doses above 5 rem, it's --

5 RANDY SULLIVAN: Jack?

6 JACK FOSTER: -- actually all.

7 RANDY SULLIVAN: Jack, I'm looking at the  
8 (b)(5) that we wrote up.

9 JACK FOSTER: Okay, yeah. And I got that  
10 from Vince and Trish. And that's great.

11 But I think that the next step that the  
12 Ambassador -- see, I went out to lunch, go figure, DOE  
13 came in with a presentation that basically had a RASCAL  
14 model and plume release that was done awhile back, a  
15 couple of days ago, that was a 12 core release.

16 (b)(5)

17  
18  
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23  
24 (b)(5) I understand the threshold. I understand the  
25 regulatory requirements for those thresholds, because

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1 that was a great second page by Vince and Trish.

2 But what I need to do is be able to have  
3 the realistic data in the plume models to say this is  
4 how long we have after something may happen. And then  
5 where do we fall into those thresholds with that realistic  
6 data of worst case scenario? Now, Randy --

7 RANDY SULLIVAN: Hey, Jack.

8 JACK FOSTER: I know that between you and  
9 I, I'm not a RASCAL person, but I've been looking at  
10 these RASCAL runs for this thing since last week, early  
11 last week when I was at the PMT.

12 And the indication that I got is that out  
13 to -- well, we can only can do 50 miles out, (b)(5)

14 (b)(5)  
15  
16  
17  
18

19 RANDY SULLIVAN: (b)(5)

20 JACK FOSTER: -- (b)(5)

21 RANDY SULLIVAN: (b)(5)

22 JACK FOSTER: (b)(5)

23 (b)(5) So I guess what I'm saying is  
24 that I got a briefing from the Ambassador today which  
25 I'm going to have the Holahan information.

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1 I'm probably going to take that 12 core  
2 release scenario with the promise that we're working  
3 on a worst case a little bit more realistic scenario.

4 (b)(5)

5  
6 FEMALE PARTICIPANT: Jack?

7 JACK FOSTER: Yes.

8 FEMALE PARTICIPANT: What do you mean by  
9 a 12 core model?

10 JACK FOSTER: Okay, I did not do the model  
11 itself. But I'm not sure if you were listening when  
12 I first started talking. But DOE had actually gone up  
13 ahead of Chuck Casto and was briefing the Ambassador  
14 about a worst case scenario in the trip wires.

15 Well, they didn't have the Holahan briefing  
16 that I had gotten. In fact, I hadn't even gotten it.

17 It hadn't even been sent by the time they were going.

18 (b)(5)

19  
20  
21 RANDY SULLIVAN: Where?

22 JACK FOSTER: -- 12 core release scenario.  
23 This was, I guess, done two or three days ago

24 RANDY SULLIVAN: Jack, Jack?

25 JACK FOSTER: Yes.

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1 RANDY SULLIVAN: Do you know where the 12  
2 core scenario came from?

3 JACK FOSTER: Yes, it came from NARAC?

4 RANDY SULLIVAN: No, no, no. But where's  
5 that source term that modeled the 12 core scenario?

6 JACK FOSTER: I have no idea. I would say  
7 that it may be a SWAG. (b)(5)

8 (b)(5)

9  
10 Maybe they were using the IAEA data that  
11 was first published right when the incident happened.  
12 I don't know.

13 FEMALE PARTICIPANT: Is that the one that  
14 the 50 mile evacuation was based on?

15 JACK FOSTER: You know what, I can't tell  
16 you.

17 RANDY SULLIVAN: Hey, Jack. To the best  
18 of our knowledge, let me tell you where we're at.

19 JACK FOSTER: Oh, please do.

20 RANDY SULLIVAN: Yes, we have worked up a  
21 new source term based on some work that research did  
22 that realistically estimates what happened and what could  
23 happen.

24 JACK FOSTER: Right.

25 RANDY SULLIVAN: But to the best of my

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1 knowledge, that calculation will be used to project what  
2 could happen in the U.S.

3 I did not think we were going to use that  
4 estimate for in-country dose projections.

5 JACK FOSTER: Okay.

6 RANDY SULLIVAN: In-country dose  
7 projections will be based on measurements and AMS data  
8 and stuff like that. So I don't believe you should mix,  
9 in your mind, the NARAC projections --

10 JACK FOSTER: Twelve core.

11 RANDY SULLIVAN: -- that we're talking.  
12 At least that's my hope.

13 JACK FOSTER: Okay, the NARAC 12 core is  
14 off the model or off the radar screen (b)(5)

15 (b)(5)

16 RANDY SULLIVAN: Right.

17 JACK FOSTER: Okay, I got you.

18 RANDY SULLIVAN: I do not believe they are  
19 related (b)(5) That is --

20 JACK FOSTER: Okay. Let me ask you a question.

21 And I'm just asking you for advice. I'm not asking you  
22 to do anything.

23 If you were in my position, and you had the  
24 Ambassador and he was saying, okay, we need to know what  
25 a worst case scenario is. Where would I get that

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1 information? And what would that information look like?

2 RANDY SULLIVAN: Yeah.

3 JACK FOSTER: In other words, would it be  
4 a three core, four pool? Because that's about the only  
5 inventory that could probably go wrong at this point.

6 RANDY SULLIVAN: That is the source term  
7 we're working on. Well, actually we sent that to NARAC  
8 just recently.

9 JACK FOSTER: Okay. And I was talking to  
10 NARAC probably about an hour ago --

11 RANDY SULLIVAN: That's right.

12 JACK FOSTER: -- about this. And they  
13 mentioned that.

14 RANDY SULLIVAN: But slow down just a second  
15 --

16 JACK FOSTER: Okay.

17 RANDY SULLIVAN: -- because there are source  
18 terms and there are source terms. This three reactor  
19 source term ends up bubbling through the torus. So it's  
20 much lower than, for instance, a LOCA source term.

21 JACK FOSTER: All right, okay.

22 RANDY SULLIVAN: Right? Because it's a  
23 station blackout source term. And it vents through the  
24 SRVs into the torus.

25 JACK FOSTER: Uh-hum.

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1 RANDY SULLIVAN: And then if it leaves the  
2 containment, it's been bubbled through water.

3 JACK FOSTER: Right. And it's worked over.

4 RANDY SULLIVAN: Scrubbed, I guess, is the  
5 term.

6 JACK FOSTER: Scrubbed, right.

7 RANDY SULLIVAN: Yeah. And then as far as  
8 the spent fuel pools, three of them are being hosed down  
9 right now.

10 But, yes, we have developed a four spent  
11 fuel pool source term, because we were asked to, for  
12 impact on the West Coast. I would hate to use that source  
13 term for in-country.

14 JACK FOSTER: Right.

15 RANDY SULLIVAN: You have actual  
16 measurements in-country.

17 JACK FOSTER: But what do I tell the  
18 Ambassador?

19 RANDY SULLIVAN: To use measurements. We  
20 have all kinds of field data between Tokyo and the plant.

21 JACK FOSTER: And what --

22 RANDY SULLIVAN: And we will be able to use  
23 that data to better project what's going to happen in  
24 Tokyo. And in fact, the wind usually doesn't blow in  
25 that direction.

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1 JACK FOSTER: Yeah, I know. Okay, so let  
2 me get an idea, a taste of this. That we have monitoring  
3 equipment between Daiichi and Tokyo.

4 And the prevailing winds are typically  
5 between five and ten miles an hour. So we typically  
6 would have at least 20 hours once we first start picking  
7 something up when the winds change.

8 RANDY SULLIVAN: I don't know that it's 20  
9 hours, Jack. But in general, the wind seldom blows in  
10 that direction.

11 JACK FOSTER: All right.

12 RANDY SULLIVAN: The wind generally is  
13 blowing out to sea.

14 JACK FOSTER: I can't see myself telling  
15 the Ambassador that we're not going to do anything, because  
16 the wind really doesn't blow in this direction.

17 RANDY SULLIVAN: And I don't know that's  
18 the right answer anyway. Because then you're looking  
19 at wind and trying to predict an action just based on  
20 the wind.

21 JACK FOSTER: What I was thinking is if,  
22 whatever, 360 degrees, whichever way it blows, I know  
23 it's a difference from over land probably to sea.

24 But if it goes out 170 miles, basically in  
25 a worst case scenario, how much does it attenuate it,

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1 and what is it when it reaches that 170 miles?

2 That way I can plug it in and say, Ambassador,  
3 within about 20 hours after we find out by monitoring  
4 that it's going to be at a level and a direction that  
5 it's coming towards Tokyo, (b)(5)

6 (b)(5)

7  
8  
9 RANDY SULLIVAN: I don't know that.

10 JACK FOSTER: (b)(5) you  
11 probably read it exceeds from one to five rems.

12 GREG CASTO: In Tokyo.

13 RANDY SULLIVAN: I don't know that, Jack.

14 JACK FOSTER: Okay. Then all I need to do  
15 is just figure out how to make a knowledgeable statement  
16 and if there is none, and if all I can say is, well,  
17 we don't believe the wind's going to blow in that direction  
18 --

19 RANDY SULLIVAN: That won't work. Well,  
20 wait a second. If you're going to use a dose projection,  
21 a projection that would involve real or expected  
22 meteorology, what these NARAC guys are going to do is  
23 they're going to go find a weather case from three months  
24 ago and blow it at Alaska. They're not using today's  
25 weather at all.

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1 JACK FOSTER: Right. And that's what I was  
2 saying, that you might have to use something hypothetical.

3 RANDY SULLIVAN: It's a real weather case,  
4 but it's from three months ago.

5 JACK FOSTER: Okay. So you're saying that  
6 it would probably be more beneficial to use a real weather  
7 case where the --

8 RANDY SULLIVAN: Yeah, I mean --

9 JACK FOSTER: -- the wind was blowing towards  
10 Tokyo, right?

11 RANDY SULLIVAN: This source term we're using  
12 --

13 JACK FOSTER: Right.

14 RANDY SULLIVAN: -- we're putting it in real  
15 time, when the reactors were vented, et cetera. So we're  
16 actually spacing it out over several days. Jack, I'm  
17 dragging you through too many details.

18 JACK FOSTER: I appreciate that. I  
19 understand conceptually some of the details you're  
20 dragging me through. But I think that the line that  
21 we're on different sides of is that I'm just talking  
22 about really a WAG, okay --

23 RANDY SULLIVAN: Right, right. I  
24 understand.

25 JACK FOSTER: -- and something that will

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1 probably not happen. And I will explain that this is  
2 just a really SWAG, and that there's --

3 RANDY SULLIVAN: (b)(5)

4 (b)(5)

5  
6 JACK FOSTER: I agree, I agree.

7 BRUCE HOWARD: Can I just, excuse me --

8 JACK FOSTER: But the genie's already been  
9 let out of the bottle, by the way, by DOE.

10 RANDY SULLIVAN: Okay.

11 BRUCE HOWARD: Could I just jump in there  
12 a little bit? This is Bruce Howard again. I am the  
13 Embassy's science officer.

14 RANDY SULLIVAN: Hey.

15 BRUCE HOWARD: But I think we're actually  
16 talking about two separate questions here. The first  
17 question is that the Embassy already has (b)(5)  
18 into their rules.

19 RANDY SULLIVAN: Okay.

20 BRUCE HOWARD: We've passed the (b)(5)

21 (b)(5) which is the 50 mile zone that was recommended.

22 And that caused the Ambassador to authorize, what we  
23 call authorize, departure, which means that people can  
24 voluntarily, their dependents can voluntarily leave.

25 (b)(5) basically says that if the

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1 Government of Japan declares Tokyo to be a disaster zone,  
2 then we evacuate the Embassy, essential and non-essential  
3 personnel.

4 And what they would like to see instead of  
5 that is a (b)(5) that's based on some sort of scientific  
6 finding --

7 RANDY SULLIVAN: Right.

8 BRUCE HOWARD: (b)(5)

9 (b)(5)

10 RANDY SULLIVAN: Okay.

11 BRUCE HOWARD: That's a lot easier to defend,  
12 in any case. And that's one of the reasons why they'd  
13 like to do it.

14 But I think that what Jack's questions are  
15 based on is, (b)(5) are in place, how do  
16 you judge whether or not a dangerous dose is likely or  
17 not.

18 But the question that the Ambassador really  
19 wants right now, today, is what sort of scientific (b)(5)  
20 (b)(5) could we suggest to Washington and propose to them  
21 so that they can either pass on it or tell us to keep  
22 the present rule.

23 RANDY SULLIVAN: Wait, wait, I thought we  
24 gave you a --

25 BRUCE HOWARD: What we saw about the five

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1 rem limit and the ten rem limit --

2 RANDY SULLIVAN: Right, we gave you a dose  
3 --

4 BRUCE HOWARD: -- is just exactly the kind  
5 of thing that he wants, if it is generally agreed that  
6 those are realistic limits to base a (b)(5) on.

7 RANDY SULLIVAN: Well, those are typical  
8 protective action guides.

9 GREG CASTO: (b)(5)  
10 I guess that's the question. Because we gave you a  
11 scientifically based (b)(5)

12 Hey, Kathy, may I see those. I'm sorry to  
13 interrupt you --

14 RANDY SULLIVAN: Have you seen those.

15 GREG CASTO: -- but we're talking to the  
16 Ambassador's rep here.

17 JACK FOSTER: Yeah, are you talking about  
18 the two-page --

19 RANDY SULLIVAN: (b)(5) for Embassy  
20 decisions. Oh, this is pre-decisional, draft for comment.

21 Have we not sent these to you?

22 BRUCE HOWARD: No, no. We're looking at it.  
23 (b)(5) order of the mandatory evacuation  
24 of non-essential Embassy staff and family members from  
25 Tokyo, projected or actual doses in Tokyo exceed one

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1 to five rem.

2 RANDY SULLIVAN: Yeah, that's correct.

3 BRUCE HOWARD: Yeah.

4 RANDY SULLIVAN: That's where we're at.

5 BRUCE HOWARD: If you guys have confidence  
6 in that sort of number, then I --

7 RANDY SULLIVAN: And then for essential staff,  
8 we have a higher level, ten rems.

9 BRUCE HOWARD: Because they could be  
10 considered to be emergency workers.

11 RANDY SULLIVAN: Yes.

12 JACK FOSTER: Let me roll it back. I'm telling  
13 you, I'm going to go ahead and get my butt kicked again.

14 Because Chuck Casto basically said, no, that's not what  
15 I want.

16 (b)(5) But  
17 I'm telling you, I understand what these are. But he  
18 said, in addition to that, there has to be some type  
19 of empirical data or some kind of scientific data that  
20 says, okay, not only does this matter on (b)(5)  
21 (b)(5) but the Ambassador wants to see, for the model,  
22 it says this is what the worst can happen.

23 BRUCE HOWARD: Well, yeah. But the language  
24 here --

25 JACK FOSTER: And I agree with you.

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1 BRUCE HOWARD: -- says projected.

2 JACK FOSTER: I know.

3 BRUCE HOWARD: He's going to ask how do you  
4 project that. And that's your question.

5 JACK FOSTER: How do you project it, yeah.

6 And so --

7 RANDY SULLIVAN: You do not use the word  
8 --

9 JACK FOSTER: -- once we get five rems in  
10 there we said, okay, it's okay to leave, or do we say,  
11 okay, 20 hours from now you're probably going to exceed  
12 this (b)(5) So what do we do now?

13 RANDY SULLIVAN: Jack?

14 JACK FOSTER: And I guess he doesn't want  
15 to wait until the time of --

16 RANDY SULLIVAN: Jack?

17 JACK FOSTER: -- zero hours. Go ahead, I'm  
18 sorry.

19 RANDY SULLIVAN: When we say projected, we  
20 mean an actual ongoing release is projected to deliver  
21 that dose. We do not mean the hypothetical source term  
22 we are developing for the White House.

23 JACK FOSTER: Okay, yeah.

24 RANDY SULLIVAN: Did I say that plainly?

25 BRUCE HOWARD: Yeah, we got that.

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1 RANDY SULLIVAN: So --

2 KATHY: (Indiscernible) a hypothetical  
3 source term for the (b)(5)

4 RANDY SULLIVAN: I know we did. But let's  
5 do what we're doing now, which is what I think.

6 GREG CASTO: Which is what we do public here.

7 RANDY SULLIVAN: We mean projected to happen.  
8 We don't mean hypothetical, could maybe happen if  
9 everything goes wrong.

10 KATHY: But what if we have numbers in our  
11 --

12 JACK FOSTER: Well, can you give me the  
13 projected or --

14 RANDY SULLIVAN: So when there's a release  
15 ongoing and TEPCO and whoever's doing doses there is  
16 projecting five rem or one rem for Tokyo, then we would  
17 say, okay, that's a real release with real meteorology.

18 And it looks like it's going to happen to  
19 the best of their knowledge. And you're going to fall  
20 over (b)(5)

21 JACK FOSTER: Okay, but you're saying also  
22 that it wouldn't be our projected, it would be TEPCO's.

23 RANDY SULLIVAN: Well, we don't have --

24 GREG CASTO: No.

25 RANDY SULLIVAN: I'm sorry, Greg, what'd

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1 you --

2 GREG CASTO: No. We have that capability  
3 now. We have AMS. We have --

4 JACK FOSTER: Right, the plane is in the  
5 air right now.

6 GREG CASTO: We have a means to calculate  
7 offsite dose. So we would have a means to make that  
8 determination, which is just like we would do and state  
9 and locals and licensees would do for an accident in  
10 the U.S. to protect the general public, same  
11 (indiscernible).

12 JACK FOSTER: And I think that's what the  
13 Ambassador's going to want to hear, that this is the  
14 same as what we would do domestically.

15 GREG CASTO: Yes, that's correct.

16 KATHY: (Indiscernible) calculations?

17 RANDY SULLIVAN: Now, here's the kind of  
18 data that we've been getting. Now, if we have to do  
19 this here, there's a bit of lag time. But they have  
20 regular measurements that they're taking in the environs  
21 and at the site boundary.

22 When those measurements start showing a huge  
23 release, it would be tens of rems, where we're getting  
24 millirem at the moment.

25 That would look like there's a plume headed

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1 towards Tokyo. And the dose projections may show or may  
2 not show that we're going to cross the (b)(5) We  
3 don't have those kinds of plumes headed towards Tokyo  
4 ever in the data we've seen.

5 JACK FOSTER: We probably don't have any  
6 MET data in the near, or recent or just in past that  
7 would indicate that there would be a plume coming towards,  
8 is that --

9 RANDY SULLIVAN: The wind did blow towards  
10 Tokyo for awhile. It's not right now, I don't think.

11 GREG CASTO: No. We do have meteorology  
12 though.

13 RANDY SULLIVAN: Yeah, we have meteorology.  
14 And like I say, we get these periodic readings.

15 (Offline comments)

16 RANDY SULLIVAN: No, Jack, I think our  
17 question --

18 MALE PARTICIPANT: I can't read it, but --

19 RANDY SULLIVAN: -- to you would be what's  
20 in place or what could be put in place to get either  
21 routine or live radiological measurements as far as --

22 JACK FOSTER: Meteorological measurements?

23 RANDY SULLIVAN: Not meteorological,  
24 radiological.

25 JACK FOSTER: Well, I don't know if you got

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1 it, I'm sure you did get it, but we've been meeting with  
2 NISA, who's basically our counterpart, regulatory  
3 counterpart here in Japan.

4 And we were able to orchestrate, get together  
5 a package of what they call MPs, monitoring points, around  
6 the Daiichi site.

7 RANDY SULLIVAN: Right, that's not what we're  
8 talking about.

9 JACK FOSTER: That's not what you're talking  
10 about?

11 RANDY SULLIVAN: What I'm talking about is  
12 live radiological monitoring. In other words, detectors  
13 around the site that we would use that would record live  
14 information.

15 JACK FOSTER: Well, you guys have access  
16 to the AMS.

17 RANDY SULLIVAN: That's correct. And  
18 that's good when AMS is up after they have done their  
19 analysis and --

20 GREG CASTO: AMS lags by about seven hours,  
21 man.

22 RANDY SULLIVAN: Right.

23 JACK FOSTER: Yeah, yeah, I got you.

24 RANDY SULLIVAN: Right. So we're wondering

25 --

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1 JACK FOSTER: (Indiscernible) package with  
2 the best 12 sheets on it. And that's not helping?

3 RANDY SULLIVAN: Well, it helps. It's  
4 interesting. But it's not the kind of thing we would  
5 use for a dose projection to tell you that we're not  
6 or we are going to exceed PAGs at Tokyo.

7 GREG CASTO: Right, we're talking --  
8 (Offline comments)

9 JACK FOSTER: Okay. Does this exist, what  
10 you're asking me for?

11 RANDY SULLIVAN: Oh, man, I'm --

12 GREG CASTO: It would normally.

13 RANDY SULLIVAN: It would normally, yeah.  
14 But we haven't seen it. Jack, I'm sorry, where we were  
15 going was, isn't TEPCO projecting doses?

16 JACK FOSTER: I would imagine so. I haven't  
17 --

18 MALE PARTICIPANT: That's what this is.

19 RANDY SULLIVAN: And isn't NISA aware of  
20 what TEPCO is projecting? If we could tap into that  
21 information, we'd be better set to tell you guys what  
22 we think a dose projection is.

23 JACK FOSTER: Okay, oh, well standby then.  
24 What's the address for that.

25 GREG CASTO: Give me an email, I'll mail

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1 it to them.

2 RANDY SULLIVAN: That's the question we  
3 should be asking NISA.

4 JACK FOSTER: You want to send it to pmt12,  
5 hoc?

6 KATHY: He's with TEPCO, right?

7 JACK FOSTER: Randy --

8 RANDY SULLIVAN: I'm sorry, say that again.

9 JACK FOSTER: We've got a link for TEPCO's  
10 dose projections. They're modeling too, with their --

11 RANDY SULLIVAN: Cool.

12 JACK FOSTER: -- plume projections.

13 RANDY SULLIVAN: Yeah, yeah.

14 MALE PARTICIPANT: With SPEEDI, I don't know  
15 what --

16 JACK FOSTER: SPEEDI or something like that  
17 -- randy.sullivan@ --

18 RANDY SULLIVAN: No, no, no, wait. SPEEDI  
19 is not that, no. We know what SPEEDI is.

20 JACK FOSTER: Oh, you know what SPEEDI is  
21 and that's not what you're looking for?

22 RANDY SULLIVAN: Those are --

23 JACK FOSTER: Never mind.

24 RANDY SULLIVAN: They call them smoke plumes.

25 JACK FOSTER: Oh, okay.

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1 RANDY SULLIVAN: That's not live data or  
2 active --

3 JACK FOSTER: Okay, okay.

4 RANDY SULLIVAN: Well, let's get that  
5 question into NISA. We're being asked for questions  
6 for NISA. Are we too late?

7 GREG CASTO: No.

8 RANDY SULLIVAN: No, no. We're queing up  
9 to ask NISA some questions, Jack. Why don't we ask that  
10 question of them and see what they've got or can find.

11 JACK FOSTER: Are you guys going to be talking  
12 to NISA?

13 RANDY SULLIVAN: That's what I'm told, boss.  
14 They just asked us for input.

15 JACK FOSTER: You think that information  
16 will probably come to me, because I'm the primary  
17 interface?

18 RANDY SULLIVAN: Well, I don't know.

19 TOM BLOUNT: And, Jack, we can do that.  
20 This is Tom Blount.

21 JACK FOSTER: Okay.

22 TOM BLOUNT: We were trying to get in through  
23 the desk officer to see if there was a way that we could  
24 talk to them. And what he asked for was --

25 JACK FOSTER: Okay, if you want to talk to

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1 him directly, I don't think I can set that up tonight  
2 or today. But maybe tomorrow or --

3 TOM BLOUNT: Oh, I see.

4 JACK FOSTER: -- over the next few, I know  
5 that time is critical here. But I don't think I can  
6 put it together today.

7 RANDY SULLIVAN: Oh, we thought that --

8 TOM BLOUNT: We thought we could do this  
9 directly from here.

10 JACK FOSTER: Okay, that'll be fine. Could  
11 you set up a bridge line and let me know when you get  
12 it set up?

13 TOM BLOUNT: We certainly will. And we'll  
14 send you -- what they asked for was tell us what you  
15 want to talk about first and we'll set up a call.

16 JACK FOSTER: Who did you talk to? Do you  
17 remember?

18 TOM BLOUNT: The desk officer.

19 JACK FOSTER: Okay, and that was the desk  
20 officer here at the Embassy, right?

21 TOM BLOUNT: It was NISA's desk officer is  
22 all I --

23 JACK FOSTER: Okay, okay, that sounds good.  
24 Well, there is a Mr. Noda (phonetic) who actually is  
25 involved. So that's one of the people that should be

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1 at that meeting.

2 TOM BLOUNT: Okay. We were trying it through  
3 the liaison team just to get a connection.

4 JACK FOSTER: Okay, that sounds good then.

5 TOM BLOUNT: We're not trying to cut anybody  
6 out, we're just trying to find ways in.

7 JACK FOSTER: No. And I can appreciate that.

8 I know there's a lot of things happening (b)(5)

9 (b)(5)

10 What you'll find out from NISA is that there's  
11 also another part of the oversight, and that's JNEF  
12 (phonetic).

13 And even at that point there's an independence  
14 that TEPCO has from both of those people. And then there's  
15 the actual military that is, in some cases, responsible  
16 for some of the enforcement.

17 RANDY SULLIVAN: Well hey, Jack, in order  
18 to address the Ambassador's questions --

19 JACK FOSTER: And that's where I want to  
20 go back to, yes.

21 RANDY SULLIVAN: Right, yes. The best way  
22 to do that is, yes, we can probably string together a  
23 dose projection to tell him what the dose would be in  
24 Tokyo from a real release.

25 But to do that, we would need current readings

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1 in the environs between the site and Tokyo. And a spectrum  
2 would be nice too, but I know we're not going to get  
3 that.

4 And with that data we could do a calculation  
5 pretty quick, kind of crude, and at least make a projection.

6 Even with that projection, we would prefer  
7 to have field monitoring follow-up before we actually  
8 say it's time to leave.

9 BRUCE HOWARD: Yeah. But you can use the  
10 AMS data and MET data --

11 RANDY SULLIVAN: No, absolutely not.

12 BRUCE HOWARD: -- as sort of a quick and  
13 dirty projection, right?

14 RANDY SULLIVAN: No. Absolutely not. The  
15 AMS data lags by seven or eight hours. And it's ground  
16 deposition.

17 JACK FOSTER: But, Randy, I don't know.  
18 I guess I'm just missing something. But we're not talking  
19 about a real thing here.

20 Even if it's seven or eight hours behind,  
21 it's going to be 20 hours behind by the time it gets  
22 to where it's going anyway.

23 But my point is that, pick a random day,  
24 pick a random wind speed, and drive it in a direction.

25 And maybe the science is such that you really need to

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1 be more precise.

2 But I think the end product at 170 miles,  
3 the answer is going to be an order of magnitude either  
4 yes or no whether it's a problem or not.

5 And there's not going to be that much  
6 deviation in whether you change the MET data that much,  
7 if it's going to change that much in the end result at  
8 170 miles.

9 RANDY SULLIVAN: Are we back to a  
10 hypothetical, Jack?

11 JACK FOSTER: I am. And I can't help but  
12 get back. That's what I've been sort of tasked to do.  
13 But, okay, but if you change it to a hypothetical then  
14 that's good. And I'll --

15 RANDY SULLIVAN: We don't evacuate people  
16 based --

17 BRUCE HOWARD: Your hypothetical is based  
18 on if we have these (b)(5) in place --

19 JACK FOSTER: Right.

20 BRUCE HOWARD: -- as are proposed. And then  
21 we have a plume --

22 RANDY SULLIVAN: Yes.

23 BRUCE HOWARD: -- how do you advise? That's  
24 the hypothetical.

25 JACK FOSTER: That's what I'm saying.

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1 BRUCE HOWARD: Right. Is it going to be  
2 possible to make that kind of a projection in time for  
3 the Ambassador to make a decision, granted that the source  
4 is 170 miles away?

5 GREG CASTO: And we would say yes, because  
6 that's what we do in the United States.

7 RANDY SULLIVAN: Right, okay.

8 BRUCE HOWARD: I think that would satisfy  
9 the Ambassador at this point and then probably satisfy  
10 our bosses in the State Department.

11 RANDY SULLIVAN: Okay. But we would need  
12 cooperation from the locals. Using AMS that may not  
13 even be in the air or may be several hours old, maybe  
14 even predates the release we're talking about, is not  
15 the way to go.

16 BRUCE HOWARD: Well, we have assurances from  
17 the Japanese Government that they will give us all their  
18 data.

19 RANDY SULLIVAN: Okay. Well then we'd be  
20 good.

21 JACK FOSTER: Okay.

22 RANDY SULLIVAN: We'd have to drop what we're  
23 doing, which we would do, of course --

24 BRUCE HOWARD: Yeah.

25 RANDY SULLIVAN: -- and get on it. And we

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1 would do that.

2 JACK FOSTER: And that's what we do, I guess.

3 But monitoring post data that I sent to you, are you  
4 telling me that I don't need to be sending that to you?

5 RANDY SULLIVAN: Oh, no, we love it. We do.

6 JACK FOSTER: Okay.

7 RANDY SULLIVAN: And we need it. What's the  
8 lag time for getting that data now?

9 JACK FOSTER: I requested it from NISA every  
10 12 hours.

11 GREG CASTO: Okay. So they provide 12 hour  
12 updates, and then we get it right away.

13 JACK FOSTER: I'm sorry, what'd you say,  
14 Greg?

15 GREG CASTO: Okay, last data taken to the  
16 time you get it, in other words, you get data from NISA  
17 every 12 hours.

18 JACK FOSTER: Yeah, and I just started that  
19 about three hours ago.

20 GREG CASTO: Hold on. Okay, and when you  
21 get that data, the last recorded reading was recorded  
22 four hours prior to you getting that, 12 hours prior  
23 to you getting that?

24 JACK FOSTER: Hold on, let me look at it.

25 BRUCE HOWARD: If I'm reading this correctly,

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1 the last time on here is 1440 on the 18th. And we got  
2 it at 10 o'clock on the 19th.

3 JACK FOSTER: That's 24 hours.

4 GREG CASTO: Okay, (b)(5)

5 BRUCE HOWARD: Yeah, that's about --

6 GREG CASTO: Yeah, but --

7 JACK FOSTER: Okay. Well, (b)(5)

8 (b)(5) Maybe even to get on the bridge we can mention  
9 that.

10 RANDY SULLIVAN: Hey, Jack --

11 JACK FOSTER: (b)(5)

12 (b)(5)

13 RANDY SULLIVAN: Jack, (b)(5)

14 (b)(5) well, you know --

15 JACK FOSTER: Right, I got you.

16 RANDY SULLIVAN: -- you know the operation  
17 better than me. What we really need is, if there's a  
18 factor of ten increase, we need it immediately.

19 JACK FOSTER: Okay, yeah. Well, nevermind.  
20 The 19th is on there. When did we get it?

21 BRUCE HOWARD: So this is the 19th. So the  
22 last one was at 9:00 a.m.

23 JACK FOSTER: Okay. And that's --

24 BRUCE HOWARD: So we're getting them one  
25 hour later.

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1 JACK FOSTER: Yeah, it's only one hour later.

2 RANDY SULLIVAN: Oh, one hour later. Good.

3 That would work.

4 BRUCE HOWARD: The third page of this, the  
5 third page, the last reading, is at 9:00 a.m. And the  
6 printout was at 9:57. So it's 57 minutes old at that  
7 point?

8 RANDY SULLIVAN: No, no, that's --

9 JACK FOSTER: (Indiscernible) a little while  
10 to print it out.

11 BRUCE HOWARD: Right.

12 RANDY SULLIVAN: That's plenty good.

13 GREG CASTO: Right.

14 RANDY SULLIVAN: Yeah, we can work with that.

15 JACK FOSTER: Okay. So we will continue to  
16 have these sent to you.

17 RANDY SULLIVAN: Yes. So I'll tell you what.  
18 What we need to do maybe is get a little bit more formal  
19 about this. We've just been reading that stuff for  
20 interest. And it's good. And thank you for sending it.

21 We've been getting it periodically. But  
22 we ought to set up a regimen where it's reviewed for  
23 protective action purposes.

24 JACK FOSTER: I agree, I agree. And I think  
25 that was the general idea. I had heard from the ET briefings

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1 that there was a need to have a regimen, modeling or  
2 PAG.

3 RANDY SULLIVAN: Yeah.

4 JACK FOSTER: And that's one of the reasons  
5 why I started digging. We had these meetings the last  
6 couple of days to try to set this up. And so we were  
7 able to break the yolk on that egg this morning.

8 RANDY SULLIVAN: I mean it's --

9 JACK FOSTER: So I was able to get it --

10 RANDY SULLIVAN: -- for us to do. When it's  
11 ten and 20 MR, we don't got to do nothing. But if we  
12 were to see something that was all of sudden two R --

13 JACK FOSTER: Right.

14 RANDY SULLIVAN: -- we ought to be doing  
15 calculations and letting you guys know if there's a problem  
16 or not.

17 JACK FOSTER: My main question to you is  
18 we've got the 12 hour cycle. I think we've got it nailed  
19 down.

20 The data, some of the headers are in Japanese.  
21 I think the one we sent you, actually we had an interpreter  
22 do a little --

23 JACK FOSTER: But he sent us a translation.  
24 If it doesn't get lost, we can always use that.

25 GREG CASTO: Right. And we can translate

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1 --

2 JACK FOSTER: The last one we sent to you,  
3 the front page, I think, had the translation. And  
4 basically that covers all the headers for all the pages.

5 RANDY SULLIVAN: Yeah. We're working three  
6 shifts --

7 JACK FOSTER: Well, you don't have to explain,  
8 but we don't have a technology that much here. We have  
9 a handmade EOC that's been basically my laptop, some  
10 other people's laptops, maybe a couple of NRC laptops.  
11 We just don't have the ability to do the fancy footwork  
12 with --

13 RANDY SULLIVAN: That's cool.

14 JACK FOSTER: -- file attachments and things  
15 like that. So it is an effort to PDF something and to  
16 get it into the system. So --

17 RANDY SULLIVAN: I think I'm going to --

18 JACK FOSTER: -- that being said, if you  
19 could use that --

20 RANDY SULLIVAN: (Indiscernible) up on the  
21 wall here.

22 JACK FOSTER: -- original page, where you  
23 have the translation on there, that would be a help for  
24 us.

25 RANDY SULLIVAN: Yeah, yeah. Anyway, so

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1 let's try to get this set up and let me talk to my boss  
2 here and see if we can --

3 JACK FOSTER: Okay. Liaison program also,  
4 they have a Japanese interpreter there, a translator  
5 there.

6 MALE PARTICIPANT: Yes, we do. And we're  
7 using him.

8 JACK FOSTER: Okay, I just wanted to make  
9 sure you're aware of that.

10 We have translators here, but it's not  
11 necessarily the translation part that's killing us.

12 (b)(5)

14 GREG CASTO: Right. Just get it to us.

15 JACK FOSTER: (b)(5)

16 (b)(5)

17 RANDY SULLIVAN: Hey, Jack, I just slipped  
18 a gear here. Let me verify something with you and the  
19 Ambassador's rep. The latest dose information you have  
20 is only an hour old.

21 JACK FOSTER: That's what it appears.

22 RANDY SULLIVAN: But they're only going to  
23 send it to you every 12 hours.

24 JACK FOSTER: Well, the reason why is that's  
25 what I asked. I don't know, do we want it every half

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1 an hour?

2 RANDY SULLIVAN: You know what I really want  
3 is I want it every 12 hours and any time it increases  
4 by a factor of ten. But I don't know if they can do  
5 that. You better get it every six hours or something.

6 JACK FOSTER: Yeah, okay. We're going to  
7 get a bridge up with them, okay. (b)(5)

8 (b)(5)  
9  
10

11 RANDY SULLIVAN: Oh, yeah. No, I bet, I bet.

12 JACK FOSTER: And I would love to see the  
13 next one come.

14 RANDY SULLIVAN: Oh, I see, before we start  
15 asking --

16 JACK FOSTER: In 12 hours, if you get my  
17 drift.

18 RANDY SULLIVAN: Yeah.

19 JACK FOSTER: So I'll make an attempt. (b)(5)

20 (b)(5)

21 (b)(5) But --

22 RANDY SULLIVAN: Jack, yeah, I understand.

23 JACK FOSTER: (b)(5)

24 (b)(5)  
25

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1 hours. (b)(5)

2 (b)(5)

3 RANDY SULLIVAN: No, no, no. (b)(5)

4 (b)(5) But for us to do protective  
5 actions for you --

6 JACK FOSTER: Right, right, right, right.

7 RANDY SULLIVAN: -- we would need them to  
8 let us know if something important happens, like if it  
9 increases by a factor of ten or 50 or something.

10 JACK FOSTER: Okay.

11 RANDY SULLIVAN: Maybe 12 hours is fine,  
12 but please to let us know if it bumps up dramatically,  
13 in which case send it immediately.

14 JACK FOSTER: I got you, okay.

15 RANDY SULLIVAN: You know what I mean? I  
16 don't want to give more routine work to do when it doesn't  
17 matter.

18 JACK FOSTER: Yeah, yeah. (b)(5)

19 (b)(5)  
20  
21

22 And I can relate to when we're trying to  
23 talk to them. (b)(5)

24 (b)(5)  
25

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(b)(5)

(b)(5)

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RANDY SULLIVAN: No, really, I assume that all the people working at the plant got dead family. Right?

JACK FOSTER: You see what I'm saying.

RANDY SULLIVAN: Yeah.

JACK FOSTER: Yeah, the main thing is that we work together.

(b)(5)

(b)(5)

(b)(5)

(b)(5)

So that

being said, do me a favor. You've got my email address.

RANDY SULLIVAN: Yes.

JACK FOSTER: Or my cell phone number.

RANDY SULLIVAN: Well, do we have your email address?

JACK FOSTER: You should have it. It's jackfoster@nrc.gov.

RANDY SULLIVAN: Well, I guess we do, right, sorry. Sure, of course.

JACK FOSTER: But I don't have my Blackberry.

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1 If you can hold on and talk to Bruce for a minute, I'll  
2 go get my Blackberry and I'll give you that number too.

3 Basically 24 hours, seven days a week, I'm on call.  
4 But I'll be right back, okay?

5 RANDY SULLIVAN: Okay.

6 (Offline comments)

7 BRUCE HOWARD: So this is Bruce again. If  
8 I could ask, just to make absolutely sure. The thing  
9 that you sent me with the (b)(5) projections on it,  
10 this is standard practice in the United States, right?

11 RANDY SULLIVAN: Well, yeah. The ten rem  
12 for emergency workers, that would be plant personnel  
13 usually.

14 BRUCE HOWARD: Yeah.

15 RANDY SULLIVAN: But, I mean --

16 GREG CASTO: As far as populations, yes.

17 RANDY SULLIVAN: You wouldn't have the public  
18 go up to ten rem. But you guys aren't the public.

19 BRUCE HOWARD: No. And when they're talking  
20 essential staff, they're talking about the skeleton crew  
21 necessary to keep the Embassy in operation.

22 RANDY SULLIVAN: I'm a health physicist.  
23 In my opinion, ten rem is just fine for essential personnel.

24 BRUCE HOWARD: Right. And I think the only  
25 question the Ambassador would have is if it came to (b)(5)

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1 (b)(5) and he ordered evacuation of everybody, how much  
2 time would that give him to get everybody actually out?

3 And I guess that's going to depend on how strong the  
4 wind is and things of that sort, right?

5 RANDY SULLIVAN: Yeah, and how timely this  
6 data is so we can make our projections.

7 BRUCE HOWARD: Right, right. Well, given  
8 those --

9 RANDY SULLIVAN: Five hours probably.

10 BRUCE HOWARD: -- I think this is what the  
11 Ambassador asked for. And I think we should give it  
12 to him.

13 JACK FOSTER: And I think you're right, Randy,  
14 that the devil, a lot of times, is in the details. You  
15 start giving people hypotheticals and they don't  
16 necessarily know what the parameters are to make those  
17 hypotheticals real or not.

18 RANDY SULLIVAN: Right.

19 JACK FOSTER: And so I'm with you. I'm going  
20 to try to make that sale. But I think Chuck, the reactor  
21 guy, and it's like, okay, you know you bust a bolt on  
22 a head and you get a leak and blah, blah, blah, straight  
23 forward.

24 But I'm not sure about the modeling side  
25 and also the hypotheticals and the assumption side, how

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1 --

2 RANDY SULLIVAN: Hey, give me your phone  
3 number.

4 JACK FOSTER: -- how much we can walk down  
5 that road. It's a slippery slope. Let me give you my  
6 number, guys.

7 RANDY SULLIVAN: Okay.

8 JACK FOSTER: It's (b)(6) -

9 RANDY SULLIVAN: (b)(6)

10 JACK FOSTER: (b)(6) -

11 RANDY SULLIVAN: (b)(6)

12 JACK FOSTER: (b)(6) And you can put a Post-It  
13 note on top of the speaker there, if you want, on the

14 --

15 RANDY SULLIVAN: It's written down on our  
16 list.

17 JACK FOSTER: -- staff phone or whatever.  
18 And you can give me a call. And typically, if I'm sleeping,  
19 I'll just tell you I'll call you back.

20 RANDY SULLIVAN: Do you guys have shifts  
21 set up?

22 JACK FOSTER: Well, we just don't have enough  
23 people. Basically we had a meeting with TEPCO last night.  
24 Our RST guys were there. But we were up last night until  
25 4:00.

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1 RANDY SULLIVAN: Okay, understand.

2 JACK FOSTER: And I started my, if you want  
3 to call it a shift, the day before at 4:00.

4 RANDY SULLIVAN: Okay

5 JACK FOSTER: So it was a 24 hour thing.  
6 And then basically you had to go home. We had another  
7 meeting. They had another meeting at 7:30 or 8:00. So  
8 it was like getting in at 7:00, got a couple of hours  
9 sleep. It's rolling real quick around here.

10 RANDY SULLIVAN: Got you, got you. Well,  
11 anyway, we'll set up this regimen. And see what we can  
12 do to help.

13 JACK FOSTER: Okay. Randy, do me a favor  
14 too. And Chuck gave me this specific request. If you  
15 could let me know what the PMT is doing, when it comes  
16 to the modeling. And it doesn't have to be lengthy.  
17 It can just say we're doing X, we're doing Y and we're  
18 doing Z.

19 RANDY SULLIVAN: And we'd email you that?  
20 Would that be the easiest?

21 JACK FOSTER: If you would. It doesn't have  
22 to be in the Power Point. It doesn't have to be that  
23 explicit.

24 RANDY SULLIVAN: I got it.

25 JACK FOSTER: But just let me know what you're

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1 doing.

2 RANDY SULLIVAN: All right.

3 JACK FOSTER: And I will do the same with  
4 you. Because we actually are tied into JNEF (phonetic)  
5 and NISA. And also there's a lot of other things, a  
6 lot of other regulatory agencies that I'm working with.

7 And I'm trying to dig into figure out where  
8 we can get some of this important data. Because  
9 everybody's doing a little bit of something, even the  
10 people here. And even DOE and USAIDs guy, they're doing  
11 stuff.

12 So it's really a question of figuring out  
13 the lay of the land. And we've been here about a week  
14 now, not even a whole week. But I think we're making  
15 pretty good waves, okay?

16 RANDY SULLIVAN: Okay. Got it.

17 JACK FOSTER: You guys have a good morning,  
18 evening, or whatever time it is where you're at, middle  
19 of --

20 GREG CASTO: Hey, Jack, it's hard to tell.

21 RANDY SULLIVAN: Thanks a lot, Jack. We'll  
22 get back to you.

23 JACK FOSTER: Okay, talk to you later.

24 RANDY SULLIVAN: Thanks.

25 BRUCE HOWARD: Okay, thanks.

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JACK FOSTER: . Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%HLCF-604065094

3 BOB KAHLER: NRC, Bob Kahler.

4 GREG CASTO: Bob, Greg Casto. How are you?

5 BOB KAHLER: Hi, Greg. Nice to talk to you,  
6 man.

7 GREG CASTO: Hi. We've got a few people  
8 around the table.

9 BOB KAHLER: All right, I'll tell you what.  
10 I'm on a conference line right now. Can I call you back  
11 at whatever number you're at?

12 GREG CASTO: Absolutely. You can call at  
13 301 --

14 BOB KAHLER: Okay.

15 GREG CASTO: 816 --

16 BOB KAHLER: Yes.

17 GREG CASTO: 5415.

18 BOB KAHLER: 5415, okay.

19 GREG CASTO: Or if for some reason that  
20 doesn't work, call the HOO at 5100 and just ask for the  
21 PMT.

22 BOB KAHLER: PMT.

23 GREG CASTO: Yeah.

24 BOB KAHLER: I got it. Okay, I'll call within  
25 the next minute.

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GREG CASTO: Next minute, understand.

BOB KAHLER: Thank you. Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%HLG-IL04065094

3 GREG CASTO: NRC Ops Center.

4 MALE PARTICIPANT: I have Bob Kahler on the  
5 other line.

6 GREG CASTO: Hey, Bob.

7 BOB KAHLER: Hello, Bob Kahler here.

8 GREG CASTO: Hey, Bob. Can you hear?

9 BOB KAHLER: Sure can.

10 GREG CASTO: Okay, good. All right. Okay,  
11 we're ready for you.

12 BOB KAHLER: Okay. Who've we got there, Greg,  
13 just to ask, from what groups and all that?

14 GREG CASTO: Okay, we have Jennifer Ewell.  
15 Mike Norris is here.

16 BOB KAHLER: Okay.

17 GREG CASTO: And, let's see, do want to be  
18 part on this, Kathy? Or are you working on the --

19 (Offline Comments)

20 GREG CASTO: And Kathy Gibson.

21 BOB KAHLER: Kathy Gibson?

22 GREG CASTO: Yep.

23 BOB KAHLER: Do we have some representation  
24 from PMT and RST?

25 GREG CASTO: That's what you've got.

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1 BOB KAHLER: Oh, that's great. Okay, very  
2 good. What's going on here, everyone, is that I'm working  
3 as a liaison along with Lee Tracine (phonetic), who's  
4 in the room with me here.

5 LEE TRACINE (phonetic): Hi, everybody.

6 PARTICIPANTS: Hi, Lee.

7 BOB KAHLER: And we're at the USAID, the  
8 arm of the State Department that's been the humanitarian  
9 aid and also is actually on the ground leading the entire  
10 response team over in Japan, DART is what they're doing.

11 And we're part of that team or are on the ground crew,  
12 as you probably know.

13 So that's just a quick background. But their  
14 mission is to provide humanitarian aid on an international  
15 level for disasters.

16 And we got a request just now, I guess within  
17 the last 15 minutes to half hour, that they know what  
18 the situation is on the ground there now. And they know  
19 what the current humanitarian need is now, based upon  
20 what is currently happening. The earthquake is over,  
21 tsunami.

22 But what they need is more of some sort of  
23 thought as to what could occur at the nuclear power plant,  
24 Daiichi, based upon some of our best scientific guesses  
25 and the fact that the Japanese put out a 20 kilometer

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1 EVAC for their own citizens.

2 So let's just look at the Japanese 20 mile  
3 EVAC, 20 kilometer EVAC, I guess. Because what they're  
4 saying is that's who there're providing the aid to, as  
5 this need to provide evacuation sheltering locations,  
6 the food supplies that would be needed --

7 GREG CASTO: Right.

8 BOB KAHLER: -- whatever goes along with  
9 that. They've taken care of that. But they don't know  
10 if the NRC is saying that if the current efforts fail  
11 and the situation worsens, what is the predictability  
12 of the Japanese expanding that 20 kilometer evacuation  
13 order.

14 And also with that, when that may occur based  
15 upon best guess meteorological conditions. They're not  
16 looking for dose rates.

17 They're not looking for anything other than  
18 saying that if the current status and if what's going  
19 on, if we can't get in place this pump rig that we're  
20 putting out there, what do we think's going to happen?

21 What would the next flyover of DOE show?  
22 I guess that's what they're trying to say, so they know  
23 what kind of contingency plans they should have in place.

24 Do they have enough in the country right  
25 now or should they say this could get worse. So a

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1 contingency plan would be if I need to find more resources,  
2 where would I look to.

3 Not to say they would procure them, but just  
4 that they would want to know if they would need to maybe  
5 plan for that.

6 GREG CASTO: Okay. Let me ask, have they  
7 looked at -- you said they're currently addressing the  
8 20 kilometer, 12 mile evacuation.

9 BOB KAHLER: Yes. That's because --

10 GREG CASTO: I know, I know. Hold on, hold  
11 on. I just got it. Do they have, for instance, projected  
12 populations at 30 kilometers, at 50 kilometers, 100  
13 kilometers, that they could use as part of their planning  
14 effort? That sounds like what they may really be asking  
15 for.

16 BOB KAHLER: Right. They don't need the  
17 population numbers. They would have that.

18 GREG CASTO: Okay.

19 BOB KAHLER: And we'd know how many people  
20 would be impacted. But if it went out to 30 kilometers,  
21 what they need to know is does the NRC believe there  
22 may be a probability associated with it going out to  
23 30 kilometers. And then they can figure out what  
24 humanitarian aid would be needed for that.

25 The issue is if we would say that if what they're

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1 doing now, the Japanese and such, would not cause anything  
2 to worsen, they need to know that, or have we not reached  
3 a peak yet.

4 GREG CASTO: You know, it's --

5 (Offline comments)

6 JENNIFER EWELL: (Indiscernible)

7 supposedly getting offsite power restored. And I think  
8 that would allow them to take much more effective measures  
9 than have been available by the fire trucks and other  
10 means.

11 And so I personally think that it's unlikely  
12 that they would go beyond the 20 kilometer range. But  
13 we can't say that for sure.

14 BOB KAHLER: I understand that. The for sure  
15 part, that's part of our judgement call. And they say  
16 you can load this with caveats. They don't mind that.

17 They just need to know, just as you said, if they were  
18 to restore power --

19 JENNIFER EWELL: It'll get better.

20 BOB KAHLER: And that's what they need to  
21 know. Or if the restoration of power has no impact upon  
22 the outcome. This is the kind of stuff they need to  
23 know. So --

24 JENNIFER EWELL: Power is the big challenge.

25 If they restore power, then they'll have a lot of other

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1 options. So I would say that it's getting closer to  
2 the restoration of power.

3 So if they haven't already evacuated beyond  
4 the 20, I can't imagine them choosing to evacuate beyond  
5 the 20 unless there's something else that happens that  
6 we don't think is --

7 BOB KAHLER: Right. And I understand. And  
8 that's what they're trying to say. If you can give them  
9 -- and even saying that power restoration would better  
10 the chances of not expanding, then that's the information  
11 they need to know. Or is it such that it's not going  
12 to do anything for them?

13 GREG CASTO: Okay, I think we just gave you  
14 that.

15 BOB KAHLER: Well, I understand that. But  
16 they like to have a little bit more, I don't want to  
17 say a basis for it, but they like to have something outlined  
18 on not just the power.

19 We're looking at if everything stays the  
20 same, as it is, and the wind shifts, at what point would  
21 it get to the level of the Japanese saying, based upon  
22 what they used to go out to 20 kilometers, at what point  
23 would they expand it to 30.

24 And would that be two days from now or would  
25 that be five days from now?

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1 GREGCASTO: Bob, that's information we don't  
2 have. It sounds like they're asking us to --

3 JENNIFER EWELL: Predict the outcome of this.

4 GREG CASTO: Yeah, to predict and put on  
5 paper something we don't know. I think you could do  
6 that as well as we could.

7 BOB KAHLER: I can't predict two days or  
8 five days, Greg.

9 GREG CASTO: Well, neither can I.

10 JENNIFER EWELL: Well, neither can we.

11 BOB KAHLER: Well, no. I think that, quite  
12 honestly, knowing the core condition is it going to be  
13 something that would occur

14 JENNIFER EWELL: And the problem, Bob, I  
15 think is that we don't necessarily know the core conditions.  
16 There is a lot of uncertainty in the information that  
17 we do have.

18 So we have some information about levels  
19 in the core and they're injecting seawater. But then  
20 we hear that they're not injecting seawater in some units,  
21 and the core is at mid-plane level.

22 So we don't know for sure, but the bottom  
23 line is, is that they appear to have core cooling capability  
24 by seawater injection. They appear to be providing some  
25 amount of seawater injection to one of the spent fuel

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1 pools. But --

2 BOB KAHLER: Is this Jennifer?

3 JENNIFER EWELL: Yep, yep. But could this  
4 all go away by some unforeseen complication? Yes.

5 BOB KAHLER: Jennifer, you just gave me  
6 another scenario. And that's what they're trying to  
7 ask. Is if this happens, what's the outcome.

8 GREG CASTO: Okay. We had a similar  
9 conversation with the U.S. Ambassador to Japan's aid  
10 just a little while ago.

11 BOB KAHLER: Okay.

12 GREG CASTO: And it was a similar scenario  
13 as far as predictability of actions for --

14 FEMALE PARTICIPANT: We've got breaking news  
15 up here. Can we turn that up? It's got seven hours of  
16 (indiscernible).

17 GREG CASTO: Oh.

18 (Offline comments)

19 GREG CASTO: -- of trying to predict actions  
20 for the U.S. Embassy in Tokyo and their dependents.

21 And what we discussed with them is exactly  
22 what we would do for a licensee in this country. And  
23 what the licensee does is, based on plant conditions,  
24 you do so much. I know you're aware of all this.

25 BOB KAHLER: Sure.

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1 GREG CASTO: And that was the answer that  
2 we gave them. And then we based anything further on  
3 projected offsite dose based on what we're seeing,  
4 particularly that onset of any releases from the plant.

5 And that answer, after we explained it for  
6 awhile, seemed to be satisfactory to them. And I would  
7 say to USAID the very same thing.

8 Right now plant conditions dictated the  
9 Government of Japan to go out 12 kilometers as an evacuation  
10 or, I'm sorry, 20 kilometers as an evacuation and 30  
11 kilometers as the shelter.

12 If conditions change, then populations would  
13 have some time to go out farther to avoid picking up  
14 PHE level doses.

15 How far they would go, we don't know. But  
16 if they have an understanding of the populations that  
17 could be affected, then they could determine future needs  
18 and plan ahead accordingly based on those kind of  
19 scenarios.

20 Not from plant conditions and potential for  
21 what might happen at the plant but based on given that  
22 something additional happens at the plant, what additional  
23 populations would be affected?

24 Just like what we do as a planning effort  
25 here that you've done for years and years. Yes?

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(Offline comments)

BOB KAHLER: Yes, I understand, Greg. But

--

GREG CASTO: It sounds like they're asking for us to predict or to estimate a consequence from future degradation at the plant. And I don't think we're prepared to do that.

FEMALE PARTICIPANT: If anything, things are stabilized.

GREG CASTO: Yeah, yeah.

FEMALE PARTICIPANT: Is that everybody's opinion?

GREG CASTO: Yeah.

MALE PARTICIPANT: Well, she just came back from the ET saying something different. Yeah, it's been my opinion for two days.

FEMALE PARTICIPANT: Yeah,

(b)(5)

(b)(5)

BOB KAHLER: (b)(5)

(b)(5)

This is one of those things where, based upon what we even know, we have some capability of understanding based upon the information we've received.

Or should I just give out they should contingency plan out to 50 miles? But they don't know

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1 when that may happen. It could happen when, next hour  
2 or it could happen in five days?

3 JENNIFER EWELL: Bob, I think --

4 BOB KAHLER: Based upon the actions that  
5 are currently taking place?

6 JENNIFER EWELL: Bob, I think what we're  
7 saying is at this point it looks like things are stabilizing.

8 But, however, we don't know the condition of some of  
9 the spent fuel pools.

10 So if for instance they begin to get to a  
11 lower level where they're starting to really heat up,  
12 then we would have the concern of another release from  
13 a spent fuel pool getting to a zirconium fire.

14 But off the top of my head, I'm not sure  
15 how much of a source term that would come out of that  
16 spent fuel pool, and then looking at the wind conditions  
17 and everything, to tell you whether or not that would  
18 warrant further evacuation out toward 30 kilometers.

19 So I would say, at this point, they're getting  
20 closer to restoring power, which is a good thing. They're  
21 asking and they're getting help from other people,  
22 hopefully, which is a good thing, more equipment coming  
23 in hopefully. But it hasn't arrived

(b)(5)

(b)(5)

24  
25 But to turn on and off the switch with regard

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1 to providing humanitarian aid, I would really be hesitant  
2 to say turn off the plans to go out to 50 kilometers.

3 BOB KAHLER: No, this is not to turn on or  
4 turn off humanitarian aid. This is to create contingency  
5 plans. That's what I'm trying to say. This not to say  
6 that they're going to put product on a plane.

7 GREG CASTO: No.

8 BOB KAHLER: That's not what we're talking  
9 about. What we're talking about is does the NRC believe  
10 that USAID should prepare to have a contingency plan  
11 in place in case the Japanese would expand beyond 20  
12 kilometers.

13 Or does the NRC at this time, given the  
14 conditions, and you're saying it's stable, should they  
15 just continue business as currently exists? Or should  
16 we recommend to them, as we did to our U.S. citizens  
17 before, to put a contingency plan together out to 50  
18 miles.

19 GREG CASTO: Yep.

20 BOB KAHLER: That's all they're asking off  
21 of us. And they just want to know what our engineering  
22 judgement would say.

23 GREG CASTO: Okay. I think, and we all shook  
24 our heads around the table, based on a contingency plan  
25 they should plan for a 50 mile contingency plan. Will

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1 they use that? Who knows. But they should certainly  
2 plan for it.

3 BOB KAHLER: Okay. And we think that if that  
4 were to happen based upon what we know and we're saying  
5 it's a stable condition --

6 JENNIFER EWELL: Well, I wouldn't say stable  
7 condition, because they don't have the AC power restored.

8 But things haven't changed much over the last 24 hours.

9 But again, there's hot fuel bundles that  
10 are boiling off water. So it may be to the point where  
11 they start to uncover and they fail to get it --

12 MALE PARTICIPANT: (Indiscernible) fire  
13 trucks (indiscernible) on it.

14 JENNIFER EWELL: Yeah, right, right.

15 MALE PARTICIPANT: So we wouldn't say this  
16 is a great time right now.

17 JENNIFER EWELL: Yeah, it's stable, but what  
18 we're trying --

19 BOB KAHLER: No, I understand. And maybe  
20 the word stable, but based upon current conditions.

21 GREG CASTO: Right. I would say that --

22 RANDY SULLIVAN: Hey, Bob?

23 BOB KAHLER: Uh-huh.

24 RANDY SULLIVAN: Before we finalize this,  
25 Randy here --

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1 BOB KAHLER: Yeah.

2 RANDY SULLIVAN: I want to understand. Is  
3 this going to prevent them from providing aid within  
4 50 miles?

5 BOB KAHLER: No.

6 RANDY SULLIVAN: Okay.

7 BOB KAHLER: Not at all.

8 RANDY SULLIVAN: Well then, we're all nodding  
9 our heads.

10 GREG CASTO: Yeah.

11 RANDY SULLIVAN: The U.S. has said 50 miles  
12 is worth considering. You might say these people aren't  
13 really the public, that they're workers of some kind,  
14 right?

15 BOB KAHLER: Oh, no. I'm not even talking  
16 about --

17 GREG CASTO: They're talking about --

18 BOB KAHLER: I'm not talking about that.  
19 I'm talking about should they even give a consideration  
20 to the fact that they may need --

21 GREG CASTO: Right.

22 BOB KAHLER: -- in the future, provide  
23 humanitarian aid for the population out to 50 miles.

24 GREG CASTO: Right.

25 BOB KAHLER: Japanese population.

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1 GREG CASTO: Right, okay.

2 BOB KAHLER: Or is that probability of that  
3 happening, knowing what we have currently in front of  
4 us, is that probability so low that they shouldn't even  
5 have to put a contingency plan in place, at this point  
6 in time --

7 GREG CASTO: Okay, we --

8 FEMALE PARTICIPANT: Fifty/fifty.

9 GREG CASTO: We understand. And they should  
10 make the contingency plan. And it would seem reasonable  
11 that the geographic area they should use is 50 miles.

12 BOB KAHLER: Okay.

13 GREG CASTO: Okay.

14 RANDY SULLIVAN: But it would be a lower  
15 priority than the people that have already been, it's  
16 a contingency plan.

17 BOB KAHLER: So the contingency plan doesn't  
18 put anything in action.

19 GREG CASTO: Correct.

20 RANDY SULLIVAN: Yeah, yeah. Not at all.

21 BOB KAHLER: Okay. It does not change the  
22 on the ground project right now.

23 GREG CASTO: Yes. Okay, so it's just a plan.

24 BOB KAHLER: Yeah, it's a plan.

25 GREG CASTO: They're thinking ahead.

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1 BOB KAHLER: Yes.

2 GREG CASTO: They should.

3 BOB KAHLER: What I'm wondering is, do they  
4 need to maybe find where they can get an additional 20  
5 tons of rice and not actually even call it, but just  
6 say we may have to do this.

7 Can we find somebody? Do we have the contact  
8 information to be able to do that. Because we've already  
9 sent some over and we've exhausted that product in that  
10 one location.

11 Do we even need to begin to think about trying  
12 to find another location to obtain it from, and not even  
13 get it or even make the phone call, just should they  
14 be looking for it, contingency plans. And that's what  
15 they're trying to figure out. Or is that a wasted effort  
16 at this point?

17 GREG CASTO: Okay, we all think they should  
18 have a contingency plan.

19 BOB KAHLER: Okay, out to 50 miles.

20 GREG CASTO: Out to 50 miles.

21 BOB KAHLER: Can you give them -- and this  
22 is the other thing -- can you give them any concept,  
23 with the current conditions that are in place, if the  
24 worst case scenario were to begin at what point the  
25 evacuation may begin?

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1 In other words, if it were to occur, would  
2 they have one day, two days, a week to put that contingency  
3 plan in place?

4 RANDY SULLIVAN: Hey, Bob?

5 BOB KAHLER: Yes, sir.

6 RANDY SULLIVAN: Randy.

7 BOB KAHLER: Or should they be ready to hit  
8 the ground running if things begin to go south.

9 RANDY SULLIVAN: No, they have time.

10 BOB KAHLER: Okay. And that's what they're  
11 wondering. How much time? In other words, is this going  
12 to take place in 24 hours or is it a week?

13 They don't want anything that's detailed. You  
14 can have caveats over it. All they want to know is 30,000  
15 foot level information.

16 JENNIFER EWELL: All right.

17 BOB KAHLER: See, that's all we're asking  
18 for. So that's all they're asking for from us.

19 RANDY SULLIVAN: Okay. The information I  
20 was about to give you might not be quite what you're  
21 looking for. But bear with me for a second.

22 BOB KAHLER: Absolutely.

23 RANDY SULLIVAN: We have monitor point data  
24 in the environs. And right now we're getting it every  
25 12 hours, and we're begging for them to give it to us

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1 immediately should it increase by a factor of ten.

2 BOB KAHLER: Okay.

3 RANDY SULLIVAN: Right now it's 10 MR from  
4 ground deposition kind of doses, right. And the plume's  
5 blowing out to sea.

6 So we think maybe we are setting up a system  
7 where we would know with some advance warning when a  
8 release is occurring and it's elevated.

9 That would allow us to project doses and  
10 say we think we should suggest to somebody that the  
11 protective actions be expanded. Now, you were asking  
12 me how much time would they have.

13 BOB KAHLER: Well I guess, Randy, what I'm  
14 trying to ask is out to 50 miles right now we see from  
15 the flyovers -- or I shouldn't say out to 50, because  
16 they didn't go out that far -- but out to say, like,  
17 about 15 miles, we know what the RAD levels are on the  
18 ground by the flyover.

19 RANDY SULLIVAN: Right.

20 BOB KAHLER: Okay. If we say we have this  
21 worst case scenario commence, when should we start seeing  
22 levels out at that area such that evacuation would occur.

23 And, Randy, and I'm not talking about if  
24 it's going to be an hour, so be it. If it's going to  
25 be, you know, Bob, it's going to take an additional three

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1 days to get those numbers out there to cause them to  
2 exceed PAGs at 15 miles, that's the kind of information  
3 they would like to know.

4 FEMALE PARTICIPANT: And if so, we need all  
5 that --

6 BOB KAHLER: They don't need the dose numbers.  
7 They don't want the dose numbers. That just muddies  
8 the water for them.

9 RANDY SULLIVAN: Yeah. If I had to put my  
10 finger on it, we were thinking that if we got really  
11 timely information Tokyo would have ten, 15 hours notice.  
12 Closer in, they've have five, six, seven hours notice.

13 BOB KAHLER: Okay.

14 RANDY SULLIVAN: But that's for the exposure  
15 to begin. And it would take some time to deliver PAG  
16 doses. And people would start moving.

17 BOB KAHLER: You know, because honestly that  
18 number that we gave out for the protective action to  
19 50 miles was a dose over four days, right?

20 RANDY SULLIVAN: Yeah, that's right.

21 BOB KAHLER: Ninety-six hours.

22 RANDY SULLIVAN: Right.

23 BOB KAHLER: So that's the kind of thing.  
24 I can give them that. But it's a matter of does that  
25 still hold true based upon the information we have today?

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1 And that's what they're asking us, to not re-evaluate  
2 but just provide to them, knowing what we know now.

3 RANDY SULLIVAN: Well, but you're mixing  
4 -- and I can understand why you are -- our calculational  
5 model with how people might move. And they're not really  
6 the same thing.

7 If people are ordered to evacuate, I imagine  
8 they'd start moving, and what, they'd be moving in a  
9 few hours and they'd need help a few hours after that.

10 BOB KAHLER: Right. I understand that. And  
11 they're wondering, the help is part of when would USAID  
12 have to put the wheels in motion? And then I think I'm  
13 getting answers out there at this point.

14 RANDY SULLIVAN: Yeah, we think there'd be  
15 some notice. But it'd be as matter of hours, not a matter  
16 of days.

17 BOB KAHLER: And that's a help right there.

18 RANDY SULLIVAN: Yeah.

19 BOB KAHLER: That's what we're saying.

20 RANDY SULLIVAN: Yeah.

21 BOB KAHLER: Okay.

22 RANDY SULLIVAN: If one of these things burns,  
23 and it happens to be blowing in the wrong direction as  
24 opposed to out to sea the way it mainly blows, then we'd  
25 have some hours notice, I guess, if the dose information

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1 we're begging for actually comes through.

2 BOB KAHLER: Okay. And let me ask you one  
3 more thing, Randy. Based upon what we're seeing now  
4 and the activities that are going on now, do we believe  
5 at this point that we shouldn't see an increase of dose  
6 offsite?

7 RANDY SULLIVAN: Yeah, there're some  
8 uncertainties.

9 BOB KAHLER: I totally agree with you.

10 RANDY SULLIVAN: Like we think one of the  
11 spent fuel pools might really have been damaged, and  
12 the configuration might be weird. And we don't understand  
13 it. But on the other hand, if it was going to burn it  
14 should have burned by now.

15 BOB KAHLER: That's the kind of thing I think  
16 I need to explain.

17 RANDY SULLIVAN: Well, that might be over  
18 their heads.

19 BOB KAHLER: No, I don't need to tell them  
20 the technical part of it. All I need to tell them is  
21 that if the condition that we would have anticipated  
22 the fuel pool to be in at this point, based upon some  
23 assumptions we have, we would have been seeing a steady  
24 rise in dose levels offsite. And we're not seeing that.

25 RANDY SULLIVAN: You'd see a great big fire

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1 plume and roilings of hope.

2 BOB KAHLER: Yeah.

3 RANDY SULLIVAN: And we don't see that.

4 BOB KAHLER: Okay.

5 RANDY SULLIVAN: We just don't see that.

6 Now, could that happen?

7 BOB KAHLER: Of course. If there's another  
8 earthquake and things crack open again. I understand  
9 that.

10 But we believe right now that the spent  
11 fuel pool is in a condition such that we shouldn't expect  
12 to see, if things continue at the current progress, that  
13 we should not see dose levels rising offsite.

14 RANDY SULLIVAN: Let me say this a different  
15 way.

16 BOB KAHLER: Okay.

17 RANDY SULLIVAN: If fuel begins to burn,  
18 it should be pretty obvious.

19 BOB KAHLER: Yes.

20 RANDY SULLIVAN: Not that it couldn't happen.

21 I know they're trying to keep it from happening. But  
22 it wouldn't be a secret event that we would miss.

23 BOB KAHLER: Okay. But we would have thought  
24 that by now if the fuel was uncovered it would be burning.

25 RANDY SULLIVAN: No kidding.

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1 BOB KAHLER: Yeah, that's what I mean. And  
2 I'm just trying to confirm this so whenever we go back  
3 and we talk to them about we can give them something  
4 to work with.

5 RANDY SULLIVAN: But there's worry. One of  
6 the buildings is truly devastated. And we don't know  
7 the configuration, et cetera, et cetera.

8 But Unit 3 just looks, we can't see the fuel  
9 pool. The building is really leveled. You see the top  
10 of containment. But nevertheless, if it was going to  
11 burn it should be burning.

12 BOB KAHLER: I agree. And that's where all  
13 the caveats come in. And they understand that.

14 RANDY SULLIVAN: And it wouldn't be a secret  
15 thing. There'd be a great big smoke plume.

16 BOB KAHLER: Yeah, that's the caveat we can  
17 put in there. If the spent fuel pool starts to burn,  
18 then the information we provided you earlier is invalid.

19 RANDY SULLIVAN: Well, we still don't know.  
20 If the plume's blowing out to sea, it usually blows  
21 out to sea, Bob.

22 BOB KAHLER: I understand.

23 RANDY SULLIVAN: So --

24 BOB KAHLER: Well, that's another thing.  
25 Have we received anything on meteorological predictions

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1 past Sunday?

2 RANDY SULLIVAN: I'm looking at a 48 hour  
3 forecast right now.

4 BOB KAHLER: Okay.

5 RANDY SULLIVAN: I'm not sure I know what  
6 it means, but it's up there.

7 MALE PARTICIPANT: Wind shift on Sunday.

8 RANDY SULLIVAN: Wind shift on Sunday, yeah.

9 MALE PARTICIPANT: Blowing onshore towards  
10 Fukushima.

11 RANDY SULLIVAN: Yeah. It's going to blow  
12 inland on Sunday.

13 BOB KAHLER: Will it continue through Monday?

14 RANDY SULLIVAN: I'm sorry, I don't have  
15 that information.

16 GREG CASTO: Last projection is no.

17 RANDY SULLIVAN: Last projection is no,  
18 according to Greg.

19 GREG CASTO: Couple of hours.

20 RANDY SULLIVAN: So we have MET data.

21 BOB KAHLER: Okay. So Sunday's the worst  
22 day, it sounds like. Okay got you.

23 RANDY SULLIVAN: I hope that helps.

24 BOB KAHLER: Well, because we've been talking  
25 about if the wind shifts inland, based upon what we see

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1 right now from the flyovers, will that increase the numbers  
2 based upon those flyovers such that they may expand beyond,  
3 if everything remains constant --

4 RANDY SULLIVAN: No, the answer is no.

5 BOB KAHLER: Okay.

6 RANDY SULLIVAN: No.

7 BOB KAHLER: The wind shift should not have  
8 an impact upon the current --

9 RANDY SULLIVAN: Well, there'll be some more  
10 contamination here and there. But no, you're not going  
11 to go out beyond the 20 kilometers, based on what we  
12 have going on right now.

13 BOB KAHLER: Okay.

14 RANDY SULLIVAN: Because the wind's  
15 periodically shifted and nothing's changed. This is  
16 not like a nuclear safety grade -- well, you know all  
17 that.

18 BOB KAHLER: Okay. And quite honestly, they  
19 are only looking for, like I said, 30,000 even 50,000  
20 foot engineering judgement input.

21 RANDY SULLIVAN: I hope we gave it to you.

22 BOB KAHLER: Okay. And that's all I'm  
23 looking for, Randy, nothing more, nothing less.

24 RANDY SULLIVAN: My new boss is looking at  
25 me and tapping her foot so --

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1 BOB KAHLER: Your new boss?

2 RANDY SULLIVAN: Yeah, I'm working for Kathy.

3 BOB KAHLER: Gibson, that's not a new boss,  
4 that's a rent through boss.

5 RANDY SULLIVAN: Well, tonight it's my boss.

6 KATHY GIBSON: He just can't tick me off  
7 no matter how hard he tries.

8 (Laughter)

9 BOB KAHLER: Kathy, good to hear your voice.  
10 Hey, doesn't this take you back two years on shift.

11 KATHY GIBSON: That's what I tell people.  
12 I haven't worked shift work since I was right out of  
13 college.

14 BOB KAHLER: There you go. Now you know why  
15 you haven't been working it for the last 20 years.

16 All right, hey, thank you very much all. I'll  
17 try to put something together for them here to try to  
18 give them at least a concept of what may or may not happen,  
19 or what they should maybe put a contingency plan for.

20 And like I say, I just wanted, and I think  
21 I heard it, confirmation of probably contingency planning  
22 to 50 miles might be a good thing.

23 RANDY SULLIVAN: Yep.

24 KATHY GIBSON: Yep.

25 RANDY SULLIVAN: But not to divert current

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1 priorities.

2 BOB KAHLER: Absolutely not. And they will  
3 not.

4 RANDY SULLIVAN: Okay, thanks, man.

5 BOB KAHLER: Okay. Thank you.

6 RANDY SULLIVAN: Happy traveling.

7 BOB KAHLER: Uh-huh, bye-bye.  
8  
9  
10  
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1 (CONFERENCE CALL INITIATED)

2 0%HPI6(604065094

3 FEMALE PARTICIPANT: Protective Measures  
4 Team.

5 MIKE DILLON: Hello. My name is Mike Dillon.  
6 I'm with NARAC. And I was calling Duane Schmidt back.

7 FEMALE PARTICIPANT: Wayne Schmidt?

8 MIKE DILLON: Yes, ma'am.

9 FEMALE PARTICIPANT: Pardon me?

10 MIKE DILLON: Is it Wayne or Duane? It's  
11 Wayne, I apologize.

12 FEMALE PARTICIPANT: Just a minute. Wayne  
13 Schmidt? Is he here?

14 MALE PARTICIPANT: We don't even know Wayne  
15 Schmidt, do we?

16 MALE PARTICIPANT: Duane.

17 MALE PARTICIPANT: Oh, Duane.

18 FEMALE PARTICIPANT: Oh.

19 MALE PARTICIPANT: Oh, Duane. Sorry,  
20 Duane.

21 FEMALE PARTICIPANT: The NRC does have a  
22 Wayne Schmidt that works in Region I. Sorry, I know  
23 we have people -- just a minute.

24 DUANE SCHMIDT: Not a problem.

25 FEMALE PARTICIPANT: NARAC, yeah.

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1 DUANE SCHMIDT: Okay. I was trying to get  
2 them over there. This is Duane Schmidt.

3 MIKE DILLON: Hello, Duane. This is Mike  
4 Dillon with NARAC. How are you?

5 DUANE SCHMIDT: I am okay. How are you?  
6 What was your name again? Mike --

7 MIKE DILLON: Dillon, D-I-L-L-O-N.

8 DUANE SCHMIDT: Okay.

9 MIKE DILLON: And I'm with NARAC.

10 DUANE SCHMIDT: Right, okay.

11 MIKE DILLON: All right, mostly calling you  
12 back, but I assume this is with respect to the updated  
13 source term?

14 DUANE SCHMIDT: Right. I had just called  
15 to check on you all's status of performing the TransPacific  
16 calculations, I guess.

17 MIKE DILLON: Uh-huh.

18 DUANE SCHMIDT: But when I was talking to  
19 -- who was I talking to, Ron Baskett --

20 MIKE DILLON: Ron Baskett.

21 DUANE SCHMIDT: -- Baskett. He said that  
22 you might have a question for us or something.

23 MIKE DILLON: Well, wanted to walk through  
24 the source term, make sure I both understand what you  
25 need delivered and, preferably, how to use it.

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1 DUANE SCHMIDT: Okay.

2 MIKE DILLON: Were you involved in the, what  
3 should we say, the exercise last night and this morning?

4 DUANE SCHMIDT: I came in at the tail end  
5 of that, so I was here. In fact I hit the send button  
6 whatever time that was, 12:28 this morning, when we sent  
7 it.

8 So I got some of the download on how it was  
9 calculated when I came in. And we cleaned up the  
10 spreadsheet to send to you all.

11 MIKE DILLON: Okay.

12 DUANE SCHMIDT: So I --

13 MIKE DILLON: But in terms of what we just  
14 asked the White House on your earlier Supercore source  
15 term, I think, you were not involved?

16 DUANE SCHMIDT: I think I was involved in  
17 that, because that was the source term that we had developed,  
18 I want to say about 24 hours ago.

19 MIKE DILLON: Yeah, that's about right.

20 DUANE SCHMIDT: Something like that.  
21 Because I left here, yeah, I left here right before we  
22 sent that one to you that day, yesterday, whatever day  
23 it was.

24 MIKE DILLON: Fair enough.

25 DUANE SCHMIDT: Sorry.

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1 MIKE DILLON: Not a problem.

2 DUANE SCHMIDT: Yeah. So I think I have at  
3 least a basic understanding of both of those source terms.

4 MIKE DILLON: Okay. For the newer source  
5 terms, do you have any sort of case summaries or that  
6 sort of thing available?

7 DUANE SCHMIDT: Okay. We have a fairly brief  
8 summary that's like a page. And I think we could send  
9 that to you.

10 MIKE DILLON: I'm mostly keeping this for  
11 archive purposes.

12 DUANE SCHMIDT: Okay.

13 MIKE DILLON: They seem to appear rather  
14 quickly.

15 (Laughter)

16 MIKE DILLON: So having a little background  
17 data --

18 DUANE SCHMIDT: Right.

19 MIKE DILLON: -- is always useful.

20 DUANE SCHMIDT: Right.

21 MIKE DILLON: Still, if it's anything you're  
22 not comfortable with, if that makes sense, then I'm  
23 certainly not pushing.

24 DUANE SCHMIDT: Yeah, I'll check. I think  
25 that's okay to send that. That's not necessarily getting

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1 released or anything, right?

2 MIKE DILLON: I'm planning to keep it in  
3 here. But I thought if you release it to me I'm assuming  
4 you don't mind the DOE seeing it.

5 DUANE SCHMIDT: Right, at least that far.  
6 Yeah, okay.

7 MIKE DILLON: Yeah, we're talking interior  
8 sort of thing. But again, I'm mostly asking for context.  
9 But if you have some more specific ones with respect  
10 to your actual source term --

11 DUANE SCHMIDT: Okay.

12 MIKE DILLON: --organized for plum modeling.  
13 I'm concerned I just spent four hours dealing with the  
14 exterior (phonetic) case summaries. I wanted to get  
15 out of that curve (phonetic).

16 DUANE SCHMIDT: Right.

17 MIKE DILLON: I did have one question on  
18 your email itself.

19 DUANE SCHMIDT: Okay.

20 MIKE DILLON: Big, bold letters at the bottom  
21 it says, "This information should not be released at  
22 this time."

23 DUANE SCHMIDT: Right. I think that's some  
24 standard wording. My understanding is, I don't know  
25 what my understanding is.

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1 I think my understanding is that meant that  
2 information should not be posted on the Web at that time.

3 We were okay with that being sent to DOE. Because we  
4 copied DOE, NIT, and some other --

5 MIKE DILLON: You copied the NIT, CM Home  
6 Team?

7 DUANE SCHMIDT: Right.

8 MIKE DILLON: I just wanted to make sure  
9 was that supposed to be publicly released? And there's  
10 always sorts of nuances there.

11 DUANE SCHMIDT: I think that was my  
12 understanding. It should not be public, it should be  
13 within our limited --

14 MIKE DILLON: Work group.

15 DUANE SCHMIDT: Work group, right.

16 MIKE DILLON: Okay, so it's not indicating  
17 a draft that you're (indiscernible) too early or something  
18 like that.

19 DUANE SCHMIDT: No.

20 MIKE DILLON: Okay.

21 DUANE SCHMIDT: No.

22 MIKE DILLON: Okay. And then just that the  
23 META level, from my point of view, what I'm going to  
24 be doing is parsing this source term into a form I could  
25 use for flip dispersion.

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1 (Indiscernible) clear in my tasking on  
2 Wednesday, that's one dispersion that's going to happen.

3 But that's what I'm doing right now, is getting it staged  
4 to go.

5 The previous source term, the Supercore,  
6 we essentially sent you folks back the parsed version  
7 for your concurrence that that was correctly parsed,  
8 which was quite helpful actually.

9 DUANE SCHMIDT: Right.

10 MIKE DILLON: I was planning on doing that  
11 with this.

12 DUANE SCHMIDT: Okay. In fact, I didn't see  
13 all of those. I think I'm clear, but the one you refer  
14 to as the Supercore is the one we sent roughly 24 hours  
15 ago.

16 MIKE DILLON: Yes.

17 DUANE SCHMIDT: And we actually sent, what  
18 was the day we sent, what was it? There were multiple  
19 CSV files --

20 MIKE DILLON: Correct.

21 DUANE SCHMIDT: -- I think. And we asked  
22 you, at least on one of them, that you had to multiply  
23 by three.

24 MIKE DILLON: There were a couple of scale  
25 factors --

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1 DUANE SCHMIDT: Yeah, okay, okay.

2 MIKE DILLON: -- that were received. And  
3 Unit 4 was what, the two independent -- I could pull  
4 with (phonetic) you back the original one.

5 DUANE SCHMIDT: No, that's okay. I actually  
6 just ran them when I was looking through some of yesterday's  
7 emails, just to see what I had missed in between. And  
8 I saw some of those. I didn't open them, but I saw it.  
9 They're there in their emails.

10 MIKE DILLON: Okay, sounds good.

11 DUANE SCHMIDT: But, I guess, what I haven't  
12 looked at is the parsing. So I guess I'm not sure what  
13 I'm expecting to see when you do that.

14 MIKE DILLON: Fair enough. So what I was  
15 going to do was two levels. The first one is for the  
16 TransPacific run.

17 We had previously, our work group, had  
18 previously agreed to collapse the entire release into  
19 a 24 hour period for the first order of scoping that  
20 we needed yesterday, or today actually, not yesterday.

21 DUANE SCHMIDT: Okay.

22 MIKE DILLON: And so essentially what I was  
23 doing is taking all of those source terms by an appropriate  
24 scaling factor and giving like a total quantity released  
25 from all sources by isotope.

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1 DUANE SCHMIDT: Okay.

2 MIKE DILLON: And then looking to you folks  
3 to verify that I had done that correctly. Or you're  
4 welcome to do it and I can clarify, however you want  
5 to play the game.

6 DUANE SCHMIDT: Okay.

7 MIKE DILLON: You made life much easier since  
8 you've only given me the sum totals. That was fine not  
9 doing that, just so we have that data point checked.

10 DUANE SCHMIDT: Okay.

11 MIKE DILLON: The second type of release  
12 -- and that'll lead to a few other follow-up minor fault  
13 (phonetic) questions over the TransPacific runs, what  
14 needs to be done.

15 For the regional Japan run, time  
16 (indiscernible) are considered more important because  
17 the wind's variable.

18 DUANE SCHMIDT: Yeah.

19 MIKE DILLON: So I wanted to walk through  
20 the constant (phonetic) release duration. Do you have  
21 kind of total curies here in that release duration as  
22 opposed to the RASCAL output (indiscernible) time  
23 intervals? Are you saying a constant release of the  
24 specified release duration? Do you have the leakage  
25 afterwards? They tend to be more complex.

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1 DUANE SCHMIDT: Let's see, right. Yeah.  
2 So part of what's substantially different this time with  
3 this latest source term is these were not calculated  
4 out of RASCAL.

5 We stepped back, especially on the spent  
6 fuel pool. We were not happy with what RASCAL was doing  
7 in terms of what we thought made sense on the understanding  
8 of what should happen in spent fuel fire cases.

9 And that's beyond what I truly know. So  
10 folks went back. And I will try and send that case summary.  
11 It's really brief, but it might help.

12 So we had used -- and I'm probably wrong  
13 on the details, so don't quote me -- but we had used  
14 MELCOR, I'm pretty sure, to do calculations for the reactor  
15 core releases and for the spent fuel pool releases.

16 There's some pretty different, I don't know,  
17 assumptions. But they looked at it significantly  
18 differently, I guess, than does RASCAL. And so that's  
19 why we were just saying that those reactor core releases  
20 were essentially short term --

21 MIKE DILLON: Leakage?

22 DUANE SCHMIDT: -- with no leakage, right.

23 MIKE DILLON: And just to confirm, these  
24 are what you folks consider to be the newly definitive  
25 scenarios?

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1 DUANE SCHMIDT: Say again?

2 MIKE DILLON: And just to confirm, this  
3 sentence here is what you folks, your executive group,  
4 believe are the correct definitive scenarios?

5 DUANE SCHMIDT: Well, the correct definitive,  
6 more realistic, but still worst case, I guess. Yeah,  
7 they're the best we have at this time for looking at  
8 somewhat of a worst case scenario.

9 MIKE DILLON: Does this group of scenarios  
10 have a name?

11 DUANE SCHMIDT: I'm not sure if they do.  
12 Maybe we can agree on one.

13 MIKE DILLON: We're pretty flexible, except  
14 to not use Supercore.

15 DUANE SCHMIDT: Yeah. I think we don't want  
16 to call it Supercore. We're not happy with Supercore.

17 (Laughter)

18 MIKE DILLON: Like that's going to cause  
19 some confusion.

20 DUANE SCHMIDT: Name for, well, we might  
21 be able to, maybe we have one --

22 MIKE DILLON: Sure.

23 DUANE SCHMIDT: -- that we can use going  
24 forward to refer to it.

25 MIKE DILLON: Okay. If you wouldn't mind

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1 forwarding it at that point, it would be useful.

2 DUANE SCHMIDT: Yeah, okay.

3 MIKE DILLON: Okay. So just summarizing  
4 then, what I heard is we're assuming a competent release  
5 rate as specified trans-duration. And you're finding  
6 total curies released here. We're assuming no leakage  
7 post of the initial release.

8 DUANE SCHMIDT: Right.

9 MIKE DILLON: So essentially I'm going to  
10 take these, just a constant release rate, whatever it  
11 takes to make up the total curie to reach isotope. You're  
12 going to send me a name. These are not draft scenarios,  
13 hopefully not definitive, but draft scenarios.

14 DUANE SCHMIDT: Right.

15 MIKE DILLON: And you are comfortable sending  
16 a brief summary of the assumptions that go into these  
17 particular choices.

18 DUANE SCHMIDT: I think. I do have to check  
19 on that. But I think we will be. We talked about it.  
20 And we weren't sure that you all needed it. So we hadn't  
21 sent it already.

22 MIKE DILLON: All right, all right. And I'm  
23 mostly getting ahead of the curve for that one.

24 DUANE SCHMIDT: Yeah, that makes sense, might  
25 as well. When are they going to ask?

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1 MIKE DILLON: And I'm not really pushing.  
2 I'm just flying around.

3 DUANE SCHMIDT: Yeah, understand.

4 MIKE DILLON: I'm not going to hurt that.

5 DUANE SCHMIDT: Nope.

6 MIKE DILLON: Not a, hey, what do you mean  
7 you didn't, sort of thing. If you have it, great. If  
8 not, don't worry about it.

9 DUANE SCHMIDT: Yeah.

10 MIKE DILLON: Understand, no push on that,  
11 I'm sure. I did have one other detail in, I believe  
12 it is the reactor.

13 DUANE SCHMIDT: And so you saw it for the,  
14 I'm sure you did, the --

15 (Offline comments)

16 DUANE SCHMIDT: (Indiscernible) doing it  
17 at NARAC?

18 RANDY SULLIVAN: Can I talk to Duane when  
19 you're done?

20 DUANE SCHMIDT: Yeah. When we're done,  
21 Randy Sullivan is going to want to talk to you as well.  
22 So don't let me hang up on you.

23 MIKE DILLON: Fair enough.

24 DUANE SCHMIDT: I'm sure you were noticing  
25 the spent fuel pool releases are over a different time

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1 period there. One was eight and --

2 MIKE DILLON: Sixteen was the other.

3 DUANE SCHMIDT: -- 16 maybe for, I forget.

4 I don't have it right in front of me right now.

5 MIKE DILLON: Sixteen and eight.

6 DUANE SCHMIDT: Yeah, okay.

7 MIKE DILLON: And the other element you have  
8 in here is plume energy.

9 DUANE SCHMIDT: Right. I guess, my  
10 understanding is that you all thought or we all thought  
11 you could use that to look at plume rise, since these  
12 are coming from supposed fires.

13 MIKE DILLON: So fires is a good descriptive  
14 term. But ultimately we're looking at heat projected  
15 at the local --

16 DUANE SCHMIDT: Yes.

17 MIKE DILLON: Whether it's directly from  
18 a reactor, so to speak, because obviously those are not  
19 cooled.

20 DUANE SCHMIDT: Right, right.

21 MIKE DILLON: Or an outright fire or however  
22 that works.

23 DUANE SCHMIDT: Yeah.

24 MIKE DILLON: But one thing I would add is  
25 we certainly do have models for it. I'm a touch worried

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1 in this situation because we're within buildings, venting  
2 around buildings, and that makes life nasty.

3 If you concur, I was going to do a more averaged  
4 sort of, I won't go as far as to say it's hand waving,  
5 but it's a very approximate method, just because we don't  
6 have a lot of good information about the details of the  
7 site.

8 I'm not sure it really matters that much  
9 to be spending the time to make that all --

10 DUANE SCHMIDT: Okay.

11 MIKE DILLON: --modeled up. So I appreciate  
12 including that. But unless you feel it's necessary,  
13 I was going to note it and not do it in any quantitative  
14 manner.

15 DUANE SCHMIDT: Okay. But were you going  
16 to somehow try, I think --

17 MIKE DILLON: I do put some vertical  
18 distribution in there.

19 DUANE SCHMIDT: Okay.

20 MIKE DILLON: Both for heat being input as  
21 well, frankly, wind going through. Because these  
22 industrial areas, a lot of the buildings will produce  
23 a lot of extra turbulence and will apparently mix things  
24 more than you would expect otherwise.

25 DUANE SCHMIDT: Right.

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1 MIKE DILLON: So again, at the qualitative  
2 level, we have that in there.

3 DUANE SCHMIDT: Right. Okay, I think that  
4 makes sense to me, as much as I understand it. It seems  
5 reasonable to not try and get excruciating detail on  
6 that.

7 MIKE DILLON: Yep.

8 DUANE SCHMIDT: Yeah.

9 MIKE DILLON: I absolutely agree. I don't  
10 think we know the scenarios well enough, just based on  
11 our conversation --

12 DUANE SCHMIDT: Yeah.

13 MIKE DILLON: -- as one that justifies the  
14 expense of truly building up a site detail specific to  
15 get reliable answers.

16 DUANE SCHMIDT: Right.

17 MIKE DILLON: But if you feel a need to push  
18 back there let me know. And we can have a longer  
19 conversation.

20 DUANE SCHMIDT: Right, okay.

21 MIKE DILLON: But it is useful to know for  
22 context for the --

23 DUANE SCHMIDT: Okay.

24 MIKE DILLON: All right. Let's see. I  
25 think that basically covers this. Anything else from

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1 your side? I know Randy would like to talk as well.

2 DUANE SCHMIDT: Well, so Randy wanted to  
3 talk. And I guess I'll ask, and he might ask the same  
4 thing. The runs, the regional Japan runs, were we asking  
5 you for that? Or was that request coming from somewhere  
6 else?

7 I don't know, that might be what he's going  
8 to ask you about. So I don't know if I should even start  
9 that conversation.

10 MIKE DILLON: Well, I'll say in general that  
11 our tasking comes directly (indiscernible). Our  
12 conversations here are extremely helpful for phrasing  
13 that.

14 DUANE SCHMIDT: Right, okay.

15 MIKE DILLON: Well, actually I shouldn't  
16 say. As of approximately three hours ago when I last  
17 checked in on the priority list, it wasn't in. But I  
18 haven't checked in recently. I know there have been  
19 some conversations after that.

20 DUANE SCHMIDT: Okay.

21 MIKE DILLON: I don't know where that  
22 particularly stands.

23 DUANE SCHMIDT: Okay, fine.

24 MIKE DILLON: That seems to move here.

25 (Laughter)

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1 DUANE SCHMIDT: I think --

2 MIKE DILLON: I'm sure you have the same  
3 problem.

4 DUANE SCHMIDT: I think this is what Randy  
5 wants to talk about. And I think there might be a concern  
6 about, this source term is still somewhat worst case.

7 And as you saw from the release time, date  
8 times, some of this has already happened. So it's not  
9 necessarily the best for looking at regional to model  
10 what's already happened.

11 Because we are getting a certain amount of  
12 fuel data already that's probably more useful. But I  
13 think that's what he's going to want to talk to you about  
14 in part.

15 MIKE DILLON: Well, let me give a two cent  
16 thought on this one --

17 DUANE SCHMIDT: Yeah.

18 MIKE DILLON: -- just because you've brought  
19 it up. The regional, there's actually multiple uses  
20 for regional products. Some of them are to guide field  
21 measurement teams. So they are looking for what was  
22 previously released.

23 DUANE SCHMIDT: Right, sure. That makes,  
24 yeah.

25 MIKE DILLON: And the other is more for

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1 planning purposes, if you will, both in terms of  
2 hypothetical if something truly went boom, try to put  
3 some sort of bounding on it if the Tokyo risk came.

4 DUANE SCHMIDT: Right.

5 MIKE DILLON: Or the other way is something  
6 did go boom --

7 DUANE SCHMIDT: Yeah, yeah, yeah.

8 MIKE DILLON: -- our risk is Tokyo.

9 DUANE SCHMIDT: Yeah, and I was not  
10 remembering the other purpose of guiding the field teams.  
11 Of course, that's important. I wasn't thinking about  
12 that, sorry.

13 MIKE DILLON: No problem. That's why I  
14 wanted to mention it, just so you'd have it in the back  
15 of your head.

16 DUANE SCHMIDT: Sure.

17 MIKE DILLON: There are multiple uses for  
18 these. The prior releases are useful.

19 DUANE SCHMIDT: Sure.

20 MIKE DILLON: And just to confirm, these  
21 times in here are NRC's belief that that's got on the  
22 (indiscernible) for this time?

23 DUANE SCHMIDT: Yes. And you used the word  
24 best guess, but --

25 (Laughter)

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1 MIKE DILLON: I use it a lot these days.

2 DUANE SCHMIDT: Some of them have more --

3 MIKE DILLON: Confidence than others?

4 DUANE SCHMIDT: -- more confidence than  
5 others.

6 MIKE DILLON: You know, actually that would  
7 be a useful addition, either to the strike (phonetic)  
8 itself versus the polished (phonetic) email statement.

9 Just list the times with how much confidence you are  
10 that that's the correct release time.

11 One thing we're doing is trying to match  
12 field data as refined models. And knowing which are  
13 the free parameters and which ones are not is a really  
14 handy thing.

15 DUANE SCHMIDT: Yeah. I will see if we can,  
16 I don't know. We'll see.

17 MIKE DILLON: I understand. That's one of  
18 those, if you can it would be nice. If not, please don't  
19 kill yourself.

20 DUANE SCHMIDT: Right, okay. That sounds  
21 good. And I guess in terms of parsing the source terms,  
22 are we leaving it at -- we didn't totally decide, I guess,  
23 whether you were going to initiate that or we were.

24 MIKE DILLON: Why don't I do that. I will  
25 parse it and combine the total. Because I do appreciate

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1 (indiscernible) there. I'll give it a combined total,  
2 give it a check to make sure I did the math right.

3 DUANE SCHMIDT: Okay.

4 MIKE DILLON: And that will provide a  
5 validation check.

6 DUANE SCHMIDT: Okay. That sounds good.  
7 And so are we good and I should get Randy?

8 MIKE DILLON: I'm good if you're good.

9 DUANE SCHMIDT: Okay. I hope he's available.  
10 He looks like he should be. Just a second.

11 MIKE DILLON: Not a problem, thank you, sir.

12 DUANE SCHMIDT: Yep.

13 (Offline comments)

14 RANDY SULLIVAN: Hi, there.

15 MIKE DILLON: Hello.

16 RANDY SULLIVAN: So I guess you received  
17 our latest, bestest worst case scenario, right?

18 MIKE DILLON: Yes.

19 RANDY SULLIVAN: And do you guys have plans  
20 running that sometime?

21 MIKE DILLON: It's not clear to me if we're  
22 running this or when we're running this, is probably  
23 a better phrase, in terms of priority. Actually, I'm  
24 going to put you on speaker phone.

25 RANDY SULLIVAN: Yeah.

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1 MIKE DILLON: Hold on one second.

2 RANDY SULLIVAN: Hey, hey.

3 MIKE DILLON: Hello? Hello, Randy?

4 RANDY SULLIVAN: I'm still here.

5 MIKE DILLON: All right, this is Mike Dillon.

6 Ron Baskett's here as well.

7 RANDY SULLIVAN: Hey, hey.

8 RON BASKETT: Hey, Randy.

9 RANDY SULLIVAN: Hey, guys.

10 MIKE DILLON: And so Randy's question was  
11 we've received the new source term. My current tasking  
12 is to parse it into a form that we can use. But I wasn't  
13 quite sure in terms of what runs are actually going to  
14 be done with it, when.

15 RON BASKETT: Yeah, Randy. We have the two  
16 sets of runs, basically it's a regional scale that's  
17 for in-country in Japan, that's primarily in DOE use  
18 and in-country use. And then the second scale is the  
19 TransPacific atmospheric model run.

20 RANDY SULLIVAN: Uh-huh.

21 RON BASKETT: And we are proceeding with  
22 both of those runs. And the first is, basically, we're  
23 awaiting some corrected radiological field measurement  
24 data before we can make that run.

25 RANDY SULLIVAN: So what source term are

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1 you using for the in-country run?

2 RON BASKETT: Well, whichever the latest  
3 source term that you provided.

4 RANDY SULLIVAN: We didn't expect that source  
5 term to be used for the in-country run.

6 RON BASKETT: Ah, okay.

7 RANDY SULLIVAN: It's a really very severe  
8 source term.

9 RON BASKETT: Oh, okay.

10 RANDY SULLIVAN: And we understood its use  
11 to be for, I guess, the White House.

12 RON BASKETT: Okay, so that's the  
13 TransPacific only.

14 RANDY SULLIVAN: Yeah.

15 RON BASKETT: Okay.

16 RANDY SULLIVAN: We did not intend, there's  
17 no reason to believe that source term is going to happen.

18 RON BASKETT: Ah, okay. Right, got it.  
19 Yeah.

20 RANDY SULLIVAN: All right. We were asked  
21 to do a worst case. And our research guys finally told  
22 us what a spent fuel pool fire looks like, and et cetera,  
23 et cetera. But there's no reason to believe that's going  
24 to happen.

25 RON BASKETT: Got it. Yeah, the Supercore,

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1 right?

2 RANDY SULLIVAN: Yeah. And especially not  
3 in-country.

4 RON BASKETT: Okay.

5 RANDY SULLIVAN: I think that would just  
6 get misused.

7 RON BASKETT: Yeah, right. Got it.

8 RANDY SULLIVAN: But for the TransPacific,  
9 if the President wants to know what could possibly, worst  
10 case, kind of maybe happen, this is bounding, certainly.

11 RON BASKETT: Okay.

12 RANDY SULLIVAN: So good, good. Now, two  
13 shifts ago or three shifts ago now, we were going to  
14 try to come up with an in-country source term based on  
15 readings and all that kind of stuff.

16 RON BASKETT: Okay, good.

17 RANDY SULLIVAN: Nobody, since I was last  
18 here, had that priority.

19 RON BASKETT: Oh, I see.

20 RANDY SULLIVAN: So we would like to do that.  
21 And we'll try, although we're all desperate to go home  
22 here in an hour or two. But we would like to pursue  
23 that.

24 I'm not sure how the heck to do it. But  
25 the guys who were supposed to work on it will do that

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1 again. But no, we are not requesting that you use this  
2 nasty source term for in-country purposes.

3 RON BASKETT: Right, yeah. Okay.

4 RANDY SULLIVAN: Okay. So we're clear on  
5 that?

6 RON BASKETT: Yes, uh-huh.

7 RANDY SULLIVAN: Good, thanks. So the next  
8 subject, if that's okay, (b)(5)

9 (b)(5)  
10  
11  
12  
13

14 RON BASKETT: Well, let's see. I don't  
15 believe that the AMS, (b)(5)

16 (b)(5)

17 RANDY SULLIVAN: Oh, oh, maybe I'm wrong  
18 all together. (b)(5)

19 MIKE DILLON: (b)(5)  
20 (b)(5)

21 RON BASKETT: Yeah.

22 RANDY SULLIVAN: But not AMS?

23 MIKE DILLON: I don't think so. I'd --

24 RANDY SULLIVAN: Oh, well, dagnabbit.

25 (b)(5)

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(b)(5)

RON BASKETT: Actually, we could show up on the CM Home Team line and ask that question.

RANDY SULLIVAN: Okay.

RON BASKETT: (b)(5)

(b)(5)

RANDY SULLIVAN: Oh, for crying out loud. Sorry, guys. We've been chasing our tail on that one.

RON BASKETT: (b)(5)

(b)(5)

RANDY SULLIVAN: Yeah, sure, sure, sure.

I know. (b)(5)

(b)(5)

RON BASKETT: Right. (b)(5)

(b)(5)

RANDY SULLIVAN: Yeah, but --

RON BASKETT: (b)(5)

(b)(5)

RANDY SULLIVAN: No, of course not. Now, the on-ground monitoring crews are not anywhere near the site, right?

RON BASKETT: Are the ground crews that are running around, field teams.

FEMALE PARTICIPANT: They're getting closer, but they're not, I guess -- Sorry, the field teams are

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1 getting closer.

2 I think yesterday they were around the 40  
3 to 50 mile mark. They're getting in closer today. But  
4 they're not anywhere close to the site boundaries.

5 RANDY SULLIVAN: Yeah. And they're coming from  
6 Tokyo, are they?

7 FEMALE PARTICIPANT: Yes, that is correct.

8 RANDY SULLIVAN: Well there is deposition  
9 here and there, I guess. Right?

10 RON BASKETT: Oh, yeah.

(b)(5)

11 (b)(5)

12 RANDY SULLIVAN: I don't know.

(b)(5)

13 (b)(5)

14  
15  
16 RON BASKETT: Well, right,

(b)(5)

17 (b)(5)

18 (b)(5)

And --

19 RANDY SULLIVAN: Well, yeah. But I was  
20 trying to think whether that would be like maybe we'd  
21 be able to discern spent fuel from reactor. Of course,  
22 it'll be laying on top of each other, won't it?

23 RON BASKETT: Well, yeah.

24 RANDY SULLIVAN: Yeah, okay.

25 RON BASKETT: Sure. It's integrated from,

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1 and it's only from something like a 12 hour period back,  
2 I don't remember the dates, the period of wind from the  
3 northeast on --

4 RANDY SULLIVAN: Oh, that's right. Yeah,  
5 that's right. Yeah, yeah, sure.

6 RON BASKETT: That period that we have ground  
7 data from.

8 RANDY SULLIVAN: Yeah. Yeah, right, only  
9 the period when the wind was blowing in that direction,  
10 which is --

11 RON BASKETT: Exactly.

12 RANDY SULLIVAN: -- yeah, something like  
13 12 hours three days ago, right?

14 RON BASKETT: Exactly. You got it.

15 MIKE DILLON: So, Randy, (b)(5)

16 (b)(5)

17 RANDY SULLIVAN: Yeah.

18 MIKE DILLON: (b)(5)

19 (b)(5)  
20  
21

22 FEMALE PARTICIPANT: (b)(5)

23 (b)(5)  
24  
25

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1 almost impossible to resolve.

2 RANDY SULLIVAN: I see, okay. Now, since  
3 I've got you all on the phone and I'm a pesky fellow,  
4 I gather that AMS is not going to overfly the site exactly.

5 RON BASKETT: No, they've been around it  
6 but not over it.

7 RANDY SULLIVAN: Not over it. And they're  
8 not going to go out to sea and give us the location of  
9 the plume either, are they?

10 RON BASKETT: No. The chasing it out to sea  
11 really doesn't, they could provide some instantaneous  
12 data in-plume, but that's not going to be very useful.

13 RANDY SULLIVAN: Well, I didn't mean in-plume.  
14 I was hoping above-plume or whatever.

15 RON BASKETT: Well, above, yeah. So they  
16 talked about doing that, but then the whole community  
17 thought that was of low value. So that's shut down.

18 RANDY SULLIVAN: Okay.

19 RON BASKETT: So, yeah. So now they're  
20 focusing on, again, the onshore --

21 RANDY SULLIVAN: I see.

22 RON BASKETT: There's a lobe to the southwest  
23 and a lobe to the northwest.

24 RANDY SULLIVAN: Okay. Can you just hold  
25 one? I just want to confer with my boss here for a second.

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1 If I can interrupt you for a second. DOE  
2 has determined that, in their opinion, it is not worth  
3 going out to sea and seeing what the plume looks like,  
4 or the scope of it or whatever.

5 (b)(5)  
6  
7  
8  
9

10 (Offline comments)

11 RANDY SULLIVAN: Okay. Hey, guys.

(b)(5)

12 (b)(5)  
13  
14  
15

16 RON BASKETT: Oh, what decision is that,  
17 Randy?

18 RANDY SULLIVAN: Not to go out to sea and  
19 show us what the plume looks like.

20 RONBASKETT: Oh, yeah. You mean the current  
21 instantaneous plume. Yeah, right.

22 RANDY SULLIVAN: Yeah.

23 RONBASKETT: Yeah. Well, it's just a little  
24 value of that data compared to collecting other data.  
25 It's a --

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1 RANDY SULLIVAN: Okay.

2 RON BASKETT: -- value of data decision.

3 FEMALE PARTICIPANT: And there's also just  
4 the safety and contamination concerns and issues.

5 RANDY SULLIVAN: Yeah, we understand your  
6 decision.

7 RON BASKETT: Okay, all right.

8 RANDY SULLIVAN: Okay.

9 RON BASKETT: All rightie.

10 RANDY SULLIVAN: Hey, thanks so much, guys.

11 RON BASKETT: Okay, Randy.

12 RANDY SULLIVAN: Okay. Bye-bye.

13 RON BASKETT: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%HT!^4604065094

3 RANDY SULLIVAN: NRC, PMT, Randy Sullivan.

4 TONY MCMURTRY: Good morning, Randy, Tony  
5 McMurtry.

6 RANDY SULLIVAN: Hey, Tony.

7 TONY MCMURTRY: Hey, how you doing? Hey,  
8 listen, did they talk to you? Can you work Sunday for  
9 us?

10 RANDY SULLIVAN: No, I sure can't.

11 TONY MCMURTRY: You can't, okay.

12 RANDY SULLIVAN: No.

13 TONY MCMURTRY: Do you have any  
14 recommendations about who we could possibly get in?

15 RANDY SULLIVAN: Oh, gosh. I'm sorry. (b)(6)

16 (b)(6)

17 (b)(6)

18 TONY MCMURTRY: Okay.

19 RANDY SULLIVAN: Who could come in, hmm?

20 TONY MCMURTRY: That was the one spot we  
21 were racking ourselves.

22 RANDY SULLIVAN: Whoa, whoa, whoa, wait.  
23 I thought we were all set up. John Lubinski set up the  
24 PMT rotation at the director level.

25 TONY MCMURTRY: No, this was not for the

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1 director level. This was the spot you're working tonight.

2 We had a director. We just didn't have a PMT RAD. And  
3 Lubinski was real clear and so was Trish that there was  
4 no way you could not have a RAD. They needed to have  
5 a RAD.

6 RANDY SULLIVAN: Okay. Well, I'm sorry.  
7 I won't be able to do that.

8 TONY MCMURTRY: Had they talked to you about  
9 that? Did Steve Campbell talk to you last night?

10 RANDY SULLIVAN: No.

11 TONY MCMURTRY: He didn't, okay.

12 RANDY SULLIVAN: No, but Kathy came in.

13 TONY MCMURTRY: Well, yeah. See, we had  
14 another issue because they had moved folks around. I  
15 ended up calling Kathy yesterday. Because we ended up  
16 being double.

17 You were double-booked. You were booked  
18 as director and RAD for last night. And we said, no,  
19 we couldn't have you standing both posts.

20 But the thing was, we were looking to have  
21 you, because we couldn't get anybody for Sunday. And  
22 that was the Sunday to Monday morning, Sunday at 11:00  
23 p.m. until Monday.

24 Since you can't do it, all right. I'll tell  
25 you what. Can you send me over to the EST coordinator

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1 and let me -- we're going to just have to start calling  
2 names for this.

3 RANDY SULLIVAN: Yeah, yeah.

4 TONY MCMURTRY: So I'll have to look at the  
5 list and see if they can find somebody else. That was  
6 a tough spot for us to fill.

7 Now Trish is on. But ultimately, if we have  
8 to, I guess we'll have to try to have people work 12.

9 We'll have to have Trish come in --

10 RANDY SULLIVAN: Hold on just a second.  
11 Hey, Mike? Mike Norris is here. I don't know if he's  
12 available, but you could certainly ask him.

13 TONY MCMURTRY: I couldn't find Mike  
14 yesterday. He could probably work that.

15 RANDY SULLIVAN: Here. Hold on just a second.  
16 Hey, it's Tony.

17 MIKE NORRIS: Hey, Tony.

18 TONY MCMURTRY: Hey, Mike. Hey, is there  
19 any way you can work PMT RAD, coming in Sunday night  
20 at 11:00 until Monday morning?

21 MIKE NORRIS: Well, I'm already working  
22 Tuesday night, Wednesday night, Thursday night, Friday  
23 night next week.

24 TONY MCMURTRY: Yeah. But we don't have  
25 anybody else that night. That was the one hole we had.

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1 I'd put Randy in because I didn't want to call him and  
2 wake him yesterday. But now he's telling me there's  
3 no way he can work Monday night.

4 MIKE NORRIS: All right. Let me go look at  
5 the schedule, because I was just over there. Because  
6 I just penciled myself in for next Friday night over  
7 here.

8 TONY MCMURTRY: Okay.

9 MIKE NORRIS: Because we had an empty slot.  
10 I'll go look at it. The thing of it is, again, I'm a  
11 valve HP. I'm not a technical HP.

12 TONY MCMURTRY: Yeah. I understand. The  
13 thing is, we're --

14 MIKE NORRIS: Well, let me see who's on the  
15 team. That's what it's going to go by.

16 TONY MCMURTRY: Okay.

17 MIKE NORRIS: If it's a strong team, then  
18 that's fine. But if it's not a strong team, I'm not  
19 going to help you.

20 TONY MCMURTRY: I can appreciate it.  
21 Because like I say, and maybe we can have Trish. Let's  
22 see. Trish, I don't remember who was the, I think Trish  
23 may be the swings, and I don't remember who was coming  
24 on on days that next day.

25 Actually, hold on. I'll tell you what, why

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1 don't you talk to them.

2 MIKE NORRIS: Yeah, I'll walk over there.

3 TONY MCMURTRY: And give me a call back at  
4 home.

5 MIKE NORRIS: All right.

6 TONY MCMURTRY: Do you need my home phone  
7 number?

8 MIKE NORRIS: Yeah, give me your number.

9 TONY MCMURTRY: (b)(6)

10 MIKE NORRIS: (b)(6)

11 TONY MCMURTRY: (b)(6)

12 MIKE NORRIS: (b)(6)

13 TONY MCMURTRY: (b)(6)

14 MIKE NORRIS: (b)(6) Okay.

15 TONY MCMURTRY: I'd like to get that resolved  
16 so they don't have to --

17 MIKE NORRIS: Yeah, all right. I'll call  
18 you.

19 TONY MCMURTRY: Bye.

20 MIKE NORRIS: Bye.

21

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1 (CONFERENCE CALL INITIATED)

2 0%HY5MI\_\_04065094

3 (Answering Machine)

4 KATHY BROCK: Jack, hey. It's Kathy Brock  
5 calling from Protective Measures team. If you have a  
6 moment, please give us a call through the HOO, 301-816-5100.

7 Thanks, bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%HY9#%L04065094

3 KATHY BROCK: Protective Measures Team, this  
4 is a recorded line.

5 MIKE DILLON: Hello, my name is Michael  
6 Dillon. I'm calling from NARAC.

7 KATHY BROCK: Hey there, how're you doing?

8 MIKE DILLON: Doing just fine. How are you?

9 KATHY BROCK: Oh, good. I think I talked  
10 to you yesterday. This is Kathy Brock.

11 MIKE DILLON: Oh, hi. And didn't we just  
12 have a short conversation? Were you on that last one?

13 KATHY BROCK: You know, I wasn't on the last  
14 conversation. And my table is empty right now. Do you  
15 think that I could gather the folks that you're probably  
16 going to want to talk to?

17 MIKE DILLON: I actually don't need a talk  
18 to moment right now.

19 KATHY BROCK: All right, what do you need?

20 MIKE DILLON: I wanted to give you a heads  
21 up.

22 KATHY BROCK: Okay.

23 MIKE DILLON: I just sent you the summarized  
24 MELCOR scenario. So if you guys could review that and  
25 make sure I didn't make any mistakes, as you were kind

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1 enough to do last time, that would be useful. And then  
2 I'm sure there'll be plenty of folks having large  
3 conversations.

4 KATHY BROCK: Okay. Let me make sure that

5 --

6 MIKE DILLON: But I wanted to make sure you  
7 were aware I just sent you that.

8 KATHY BROCK: You sent it to pmt12?

9 MIKE DILLON: Yes. Actually, where did I  
10 -- I think 02 was the --

11 KATHY BROCK: Could you send it to pmt12,  
12 because those guys are --

13 MIKE DILLON: Wherever you like.

14 KATHY BROCK: -- huddled, you know.

15 MIKE DILLON: pmt12.hoc?

16 KATHY BROCK: Yeah.

17 MIKE DILLON: @nrc.gov.

18 KATHY BROCK: Yes.

19 MIKE DILLON: All right.

20 KATHY BROCK: Okay, thank you.

21 MIKE DILLON: No problem, take care.

22 KATHY BROCK: Bye.  
23  
24  
25

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1 (CONFERENCE CALL INITIATED)

2 0%HY22#L04065094

3 MALE PARTICIPANT: NRC Operations, this is  
4 a recorded line. Can I help you?

5 KATHY BROCK: Hey there, Kathy Brock calling  
6 from PMT. Can you please transfer me over to the LT?

7 MALE PARTICIPANT: Okay, send you to the  
8 LT, yes I can.

9 STEVE BLOOM: Hello.

10 KATHY BROCK: Hey there, it's Kathy Brock  
11 in the PMT. Who's this?

12 STEVE BLOOM: This is Steve Bloom.

13 KATHY BROCK: Steve, how you doing? I'm  
14 wondering if you can help me with some contact information.

15 I would like to be able to email Chuck Casto something.

16 STEVE BLOOM: Okay.

17 KATHY BROCK: And I would like to be able  
18 to call and/or email Jack Foster.

19 STEVE BLOOM: Okay. Well, Chuck Casto, if  
20 you email his normal email address --

21 KATHY BROCK: It's the normal one?

22 STEVE BLOOM: Yes, chuck.casto@nrc.gov.

23 KATHY BROCK: Okay, that's fine. I didn't  
24 know if he had a different Blackberry.

25 STEVE BLOOM: No, no, no. He's got the same

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1 one. And Jack Foster --

2 KATHY BROCK: Yes.

3 STEVE BLOOM: His phone number is

(b)(6)

4 KATHY BROCK: Uh-huh.

5 STEVE BLOOM: --

(b)(6)

6 KATHY BROCK: Okay. Do you have any  
7 indication if he's on shift, or he's always kind of on  
8 shift.

9 STEVE BLOOM: I think they're always on shift.  
10 About 10 o'clock Japan time he's probably awake.

11 KATHY BROCK: Okay. Thank you very much.

12 STEVE BLOOM: Okay, bye.

13 KATHY BROCK: Bye.  
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JEFF TEMPLE: NRC Operations Center, this is a recorded line. This is Jeff Temple.

KATHY BROCK: Oh, hey. I was hoping to get to the Liaison Team. This is Kathy --

JEFF TEMPLE: This is the Liaison Team.

KATHY BROCK: Oh, fantastic. Thanks, Jeff. Kathy Brock in PMT. Do you know what Jack Foster's email address is?

JEFF TEMPLE: Jack Foster, no I don't. Jack Foster's email address?

(Offline comments)

JEFF TEMPLE: Yeah, try jack.foster@nrc.gov and see if that works.

KATHY BROCK: Okay. I can do that. But then I won't know if it -- I know that the email will get delivered, but I won't have any idea if that's the Blackberry he's using. See what I'm saying?

JEFF TEMPLE: Check with the NRC Ops Center, the HOOs.

KATHY BROCK: Okay.

JACK FOSTER: Do you know where they are?

KATHY BROCK: Yeah.

JEFF TEMPLE: And they can get you his

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1 Blackberry information, cell phone, private numbers,  
2 public numbers, everything else.

3 KATHY BROCK: Thank you.

4 JEFF TEMPLE: Okay.

5 KATHY BROCK: Bye.

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1 (CONFERENCE CALL INITIATED)

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3 MALE PARTICIPANT: NRC, you're on a recorded  
4 line. How can I help you.

5 KATHY BROCK: Hey, it's Kathy Brock in the  
6 PMT. Do you have an email address for Jack Foster?

7 MALE PARTICIPANT: Let's see. No, I've got  
8 a phone number though.

9 KATHY BROCK: Is is (b)(6)

10 MALE PARTICIPANT: For Jack Foster?

11 KATHY BROCK: Yeah.

12 MALE PARTICIPANT: No, it starts with an  
13 area code, (b)(6) Do you want me to connect you?

14 KATHY BROCK: Yeah, that would be fantastic.

15 MALE PARTICIPANT: Okay. I'll leave a  
16 message if he doesn't pick up, okay?

17 KATHY BROCK: Okay.

18 MALE PARTICIPANT:

19 (Answering machine)

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(Answering Machine)

ANTHONY: DOE Operations, Anthony speaking.

JOHN LUBINSKI: Hi, Anthony. This is John Lubinski at the NRC Operations Center. This is a recorded line. I was calling for Dave Bowman.

ANTHONY: Hold on one second.

JOHN LUBINSKI: Thank you.

(Pause)

TED: NIT Ops, this is Ted.

JOHN LUBINSKI: Hi, Ted?

TED: Yes.

JOHN LUBINSKI: Yes, this is John Lubinski at the NRC. How are you doing today?

TED: Good. How're you doing?

JOHN LUBINSKI: Good. I was trying to get ahold of Dave Bowman.

TED: Dave's not in today.

JOHN LUBINSKI: Okay. Are you in his position today?

TED: I am not. But I can pass you to A.J. Gibson here.

JOHN LUBINSKI: A.J. Gibson?

TED: Uh-huh.

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1 JOHN LUBINSKI: A.J. Gibson, okay. Thank  
2 you.

3 TED: All right, standby.

4 A.J. GIBSON: A.J.

5 JOHN LUBINSKI: A.J. Gibson, this is John  
6 Lubinski at the NRC Operations Center. This is a recorded  
7 line.

8 I was calling, I was given the name of Dave  
9 Bowman. I understand you're in his position today. Is  
10 that correct?

11 A.J. GIBSON: Well, basically yes.

12 JOHN LUBINSKI: Okay. The reason I'm  
13 calling is we've been working closely with staff in NARAC  
14 on doing dose assessments for what's going on in Japan.  
15 And yesterday we worked closely to develop one for a  
16 scenario that was called Super Source.

17 A.J. GIBSON: Super Source, okay.

18 JOHN LUBINSKI: And had some dose estimates  
19 for the United States. What we were told by our chairman  
20 at the NRC is that there was a commitment made to the  
21 White House that NRC and DOE would work together to develop  
22 a worst case scenario, which actually was more extreme  
23 than the Super Source we did yesterday.

24 But basically, following the same process,  
25 NRC would work to develop the source term for that scenario,

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1 work with NARAC to coordinate agreement and alignment  
2 on that source term.

3 And then NARAC would develop worst case  
4 scenario dose assessments for U.S. territories based  
5 on that, similar to what we did with Super Source yesterday.

6 A.J. GIBSON: Right.

7 JOHN LUBINSKI: We did coordinate this  
8 morning with NARAC on the source term, got the information  
9 over, answered questions this morning. We believe we've  
10 answered all the questions. We believe we have agreement  
11 on where we are in the source term. But our  
12 understanding is, from a priority, they do not have this  
13 as a priority on their list. I don't know what else  
14 is on their list.

15 But again, we were told by our chairman it  
16 is a request from the White House. And it was a joint  
17 request to both DOE and NRC.

18 A.J. GIBSON: Uh-huh.

19 JOHN LUBINSKI: So I'm trying to determine  
20 prioritization. Can we get this upped on the priority  
21 list so that we're at the same priority? Our Protective  
22 Measures Team, this is our Number 1 priority at this  
23 point.

24 A.J. GIBSON: I understand where you're  
25 coming from on that. All right. And I know the urgency.

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1 So I want to ask you.

2 I've got my lead take guy. He's getting  
3 ready to get on the conference call with the White House  
4 here in seven minutes. And it might take about 45 minutes.

5 Can I have him call you back when he gets off that line?

6 JOHN LUBINSKI: Yeah, he can call me back.

7 But I guess I would ask if there was, from a work standpoint,  
8 we're also told that this is probably like a five or  
9 six hour run.

10 And waiting another 45 minutes to an hour  
11 puts us even further behind in trying to get this done.

12 Is there anything we can do in parallel to get this  
13 thing rolling?

14 A.J. GIBSON: Well, see, that's just it.  
15 You guys got that marching order and were given direction.

16 We got the marching order and was given a direction.

17 And this gentleman that I'm going to have  
18 you talk to, he's going to explain to you how he's going  
19 to help you get to where you've got to get.

20 Well, there's some things that they're  
21 working to help you get there, but it's not going to  
22 be -- it's up towards the top, but I can't tell you exactly  
23 where it is. Because I wasn't privy to that conversation.

24 JOHN LUBINSKI: Okay. So who am I getting  
25 a call back and when will I get that call?

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1 A.J. GIBSON: It'd be Jerry Garino.

2 JOHN LUBINSKI: Jerry Garino.

3 A.J. GIBSON: Right. And as soon as they  
4 get off of the 12:30 White House call, he'll be calling  
5 you back.

6 JOHN LUBINSKI: And that's after the 12:30  
7 White House call. He's going to call me back.

8 A.J. GIBSON: I'm going to have him call  
9 you back.

10 JOHN LUBINSKI: Okay. I'll be out --

11 A.J. GIBSON: And I need your name and number  
12 again.

13 JOHN LUBINSKI: Okay, yeah. The name is John  
14 Lubinski, L-U-B-I-N-S-K-I. And he can call through the  
15 NRC Ops Center at 301-816-5100.

16 A.J. GIBSON: Uh-huh.

17 JOHN LUBINSKI: And what I'm going to do  
18 is, A.J., I need to brief our Executive Team on where  
19 we are.

20 A.J. GIBSON: Right.

21 JOHN LUBINSKI: And just to let you know,  
22 I can't guarantee that they may not call someone else  
23 over there higher up.

24 A.J. GIBSON: Okay, I understand.

25 JOHN LUBINSKI: To ask for the support here.

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1       Because they're expecting this thing to be rolling.

2       Okay?

3                   A.J. GIBSON: Okay. No worries.

4                   JOHN LUBINSKI: Yeah. So we'll --

5                   A.J. GIBSON: You and I are in the same boat.

6                   JOHN LUBINSKI: Yeah, but we'll still  
7       hopefully get a call back from Jerry either way. Okay?

8                   A.J. GIBSON: All right.

9                   JOHN LUBINSKI: Thank you.

10                  A.J. GIBSON: All right.

11                  JOHN LUBINSKI: Bye.

12                  A.J. GIBSON: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%I)@0A604065094

3 KATHY BROCK: Protective Measures Team, this  
4 is a recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: Yeah,  
6 this is the HOO. I've got a secretary from the Chairman's  
7 office.

8 She has a question about the exposure  
9 information that was put on to the distribution this  
10 morning, whether or not it was made publicly available.

11 KATHY BROCK: Oh, I don't even know what  
12 she's talking about. But go ahead and put her through  
13 if you want.

14 HEADQUARTERS OPERATIONS OFFICER: Yeah.

15 KATHY BROCK: Or maybe that should be, so  
16 where was it put?

17 HEADQUARTERS OPERATIONS OFFICER: It was  
18 in the morning update that came out, on the back. It  
19 said something along the lines of if you're exposed more  
20 than four days you can get one rem of exposure.

21 And she didn't know if that was information that  
22 could be shared publicly or not. And I didn't know the  
23 answer either.

24 KATHY BROCK: Okay. Go ahead and put her  
25 through. I'll try.

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1 HEADQUARTERS OPERATIONS OFFICER: All right,  
2 good luck.

3 KATHY BROCK: Thanks.

4 ZINA BRADFORD (phonetic): Hello, yes?

5 KATHY BROCK: Hi, it's Kathy Brock.

6 ZINA BRADFORD: Hi, Kathy. This is Zina  
7 Bradford (phonetic).

8 KATHY BROCK: Oh, hey, what's happening?

9 ZINA BRADFORD: How are you?

10 KATHY BROCK: Ah, you know.

11 (Laughter)


12 ZINA BRADFORD: I have a question for you.

13 KATHY BROCK: Yes. You're a secretary as  
14 far as the HOO knows, just to let you know.

15 ZINA BRADFORD: I'm a secretary what?

16 KATHY BROCK: He said there was a secretary  
17 on the line.

18 ZINA BRADFORD: Oh.

19 KATHY BROCK: 

20 (Laughter)

21 ZINA BRADFORD: Seriously, did they really.

22 KATHY BROCK: Uh-huh.

23 ZINA BRADFORD: Oh, my gosh. You go in there  
24 and smack that guy up side the head.

25 KATHY BROCK: Yeah, I know.

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1                   ZINA BRADFORD: And I'm asking like a  
2 technical question.

3                   KATHY BROCK: Okay, whatever.

4                   ZINA BRADFORD: On the situation report that  
5 came out at 6:00 a.m. this morning --

6                   KATHY BROCK: Uh-huh.

7                   ZINA BRADFORD: -- towards the end there's  
8 a paragraph that says, (b)(5)

9 (b)(5)  
10  
11

12                   And then it says, (b)(5)

13 (b)(5)  
14

15                   KATHY BROCK: And I haven't seen that. And  
16 so your question is should it be public.

17                   ZINA BRADFORD: No, my question is, is it  
18 already public? Like can we talk, can we share that  
19 information or no?

20                   KATHY BROCK: Well, I thought the Sitreps  
21 went out to other agencies. So I would call it OUO.

22                   ZINA BRADFORD: Okay. So like if we were  
23 talking to an industry representative --

24                   KATHY BROCK: Well, industry, they're having  
25 a conference call with industry right now, aren't they?

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1 ZINA BRADFORD: Yes.

2 KATHY BROCK: Okay.

3 ZINA BRADFORD: And I'm wondering if this  
4 is something they can or can't mention.

5 KATHY BROCK: Hang on real quick.

6 ZINA BRADFORD: Okay.

7 (Offline comments)

8 KATHY BROCK: Okay. I'm just getting a  
9 sanity check.

10 ZINA BRADFORD: Uh-huh.

11 KATHY BROCK: I think what we're saying is  
12 that particular batch of info, the Sitrep, is not public.

13 ZINA BRADFORD: Okay.

14 KATHY BROCK: But it's no different from  
15 what we issued in the press release.

16 ZINA BRADFORD: Okay. Yeah, but I think what  
17 we were thinking is here's some data that supports what  
18 our modeling had estimated.

19 KATHY BROCK: The data's in the press release  
20 though.

21 ZINA BRADFORD: Oh, wait, which press release?  
22 Maybe you're talking about a different one than I am.

23 KATHY BROCK: I probably am. This is the  
24 one from maybe two days ago when we published our RASCAL  
25 data.

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1 ZINA BRADFORD: Yeah.

2 KATHY BROCK: Yeah.

3 ZINA BRADFORD: So this data was used in  
4 that? I thought this was new data, you know what I mean.  
5 Because it was highlighted. You know when they're  
6 highlighting with yellow --

7 KATHY BROCK: Yeah.

8 ZINA BRADFORD: -- the things that are new?

9 KATHY BROCK: Uh-huh.

10 ZINA BRADFORD: From the Sitrep report this  
11 morning, that was highlighted as new.

12 KATHY BROCK: Right.

13 ZINA BRADFORD: So I assumed it was like  
14 confirmatory information at --

15 KATHY BROCK: No.

16 ZINA BRADFORD: -- the RASCAL modeling.

17 KATHY BROCK: No, I wouldn't call it that.

18 ZINA BRADFORD: So what is it?

(b)(5)

(b)(5)

19  
20 KATHY BROCK:

(b)(5)

(b)(5)

21  
22 ZINA BRADFORD: Okay.

23 KATHY BROCK: I don't think you would call  
24 it confirmatory. I think it's just an update of what  
25 we've been doing.

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1 ZINA BRADFORD: Because I thought we just  
2 got that AMS information, no?

3 KATHY BROCK: Well, we've had AMS information  
4 for 24 hours.

5 ZINA BRADFORD: Okay. Hmm.

6 KATHY BROCK: Okay. So say your question  
7 again and let me think it through.

8 ZINA BRADFORD: Okay. So we're saying doses  
9 have been measured at 20 to 30 kilometers. Isn't that  
10 what it says?

11 KATHY BROCK: Oh, okay. And I haven't read  
12 it, is part of my problem. But doses have been measured  
13 by Japanese.

14 ZINA BRADFORD: Well, no. I'll read it to  
15 you exactly. It says AMS information -- what's AMS?

16 KATHY BROCK: Aerial monitoring system.

17 ZINA BRADFORD: Aerial monitoring system  
18 from March 18th, flyover data from March 18th, which  
19 was yesterday.

20 KATHY BROCK: Yeah.

21 ZINA BRADFORD: Okay.

(b)(5)

(b)(5)

22  
23 KATHY BROCK: Right.

24 ZINA BRADFORD:

(b)(5)

25 (b)(5)

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1 (b)(5)  
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4 So in my mind, I thought it was we did the  
5 modeling on Monday or whatever, Tuesday.

6 KATHY BROCK: I'd have to confirm that.  
7 I'm not positive.

8 ZINA BRADFORD: Can you find out --

9 KATHY BROCK: So did we do a model using AMS  
10 data --

11 ZINA BRADFORD: Was this an input to the  
12 model? Or was the model done using other stuff? (b)(5)

13 (b)(5)  
14

15 And if it is new information just supporting  
16 what we did before, is this publicly available information?

17 KATHY BROCK: Okay, so what I think is going  
18 to end up happening is that it will be confirmatory.

19 ZINA BRADFORD: Okay.

20 KATHY BROCK: Because I don't think we have  
21 done a RASCAL run using the AMS data.

22 ZINA BRADFORD: Okay.

23 KATHY BROCK: So I think what we're saying  
24 is it's confirmatory.

25 ZINA BRADFORD: Yes.

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1 KATHY BROCK: And is it publicly available?

2 I don't think so.

3 ZINA BRADFORD: I don't either.

4 KATHY BROCK: Because we're getting in the  
5 DOE Sitrep, which is not publicly available. (b)(5)

6 (b)(5)  
7  
8

9 ZINA BRADFORD: Okay.

10 KATHY BROCK: So I'll double check. If the  
11 statement in the Sitrep this morning is just confirming,  
12 that by using the AMS data we're just confirming it.

13 ZINA BRADFORD: Right. All right. And is  
14 there an OPA person down there right now?

15 KATHY BROCK: Yeah.

16 ZINA BRADFORD: Who is it?

17 KATHY BROCK: I don't know. Well, see we're  
18 at shift change right now.

19 ZINA BRADFORD: I know, I know.

20 KATHY BROCK: So that --

21 ZINABRADFORD: I'm just wondering if they're  
22 monitoring news, if they've seen that anywhere? Like  
23 I just quick, like, Googled it to see if maybe it's out  
24 there. But I didn't see it.

25 KATHY BROCK: Yeah. I don't think so.

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1 ZINA BRADFORD: Okay.

2 KATHY BROCK: If you go through the HOO,  
3 ask for the OPA area.

4 ZINA BRADFORD: All right.

5 KATHY BROCK: All right.

6 ZINA BRADFORD: Thank you.

7 KATHY BROCK: Thanks, right, bye.

8 ZINA BRADFORD: Bye.

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(CONFERENCE CALL INITIATED)

0%I)K\_-L04065094

KATHY BROCK: Protective Measures Team, this is a recorded line.

MALE PARTICIPANT: I've got Jerry Garino for you.

KATHY BROCK: Jerry, is he from DOE?

MALE PARTICIPANT: Yes, he is.

KATHY BROCK: Okay, hang on a second.

MALE PARTICIPANT: Here he comes.

KATHY BROCK: Jerry?

JERRY GARINO: Yeah.

KATHY BROCK: Hey, you want Bruce Watson, right?

JERRY GARINO: Is this --

KATHY BROCK: This is Kathy Brock.

JERRY GARINO: Hey, Kathy. How are you?

KATHY BROCK: All right.

JERRY GARINO: John Lubinski called and left me messages, I don't know, probably two hours ago. But I've been just throughly tied up.

KATHY BROCK: I know. And he just went into a meeting now at 2, oh wait, it's 3 o'clock. Oh, my gosh. I think he's in a meeting. Are you going to be around for awhile? Or is this something --

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1 JERRY GARINO: No. I'll be around. And  
2 what we want to talk about is, I think, the MELCOR source  
3 term.

4 KATHY BROCK: Okay. Wait, what was your name  
5 again?

6 JERRY GARINO: Jerry.

7 KATHY BROCK: What was your last name?

8 JERRY GARINO: Garino, G-A-R-I-N-O.

9 KATHY BROCK: Okay, G-A-R-I-N-O. Okay. Is  
10 that something you can talk with Bruce Watson about?  
11 Because he's our technical guy.

12 JERRY GARINO: Sure.

13 KATHY BROCK: Because he's sitting here and  
14 the person that's coming in on shift. And they can at  
15 least --

16 JERRY GARINO: Okay.

17 KATHY BROCK: Okay, hang on.

18 (Offline comments)

19 BRUCE WATSON: Hi, Jerry.

20 JERRY GARINO: Hey, Bruce. How are you?

21 BRUCE WATSON: Well, having a tough day.  
22 The reason we called was we had been speaking with NARAC  
23 over running the new source term associated with this,  
24 what we call worst case, MELCOR, best estimate for the  
25 TransPacific.

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1 And this was our highest priority from our  
2 chairman and the White House. And we need to have this  
3 thing run. And we were hoping we'd have had it run already  
4 by now. And so we needed to make sure that was in the  
5 priority with you guys to get it done. JERRY

6 GARINO: Okay. So I've talked to NARAC. And I said we've  
7 got to make sure we understand the source term.

8 BRUCE WATSON: And we spoke to them at 11:00  
9 and confirmed their numbers that they sent back to us  
10 from our numbers.

11 And we asked them if they had any other  
12 questions. And they said they didn't at that time. We  
13 haven't heard anymore from them.

14 JERRY GARINO: Maybe I can get, let me hang  
15 up, call them. And let's see if we can get a conference  
16 set.

17 BRUCE WATSON: All right. Well, I may not  
18 be here. So Michelle --

19 JERRY GARINO: Michelle Hart?

20 BRUCE WATSON: -- Hart will be here, yeah.

21 JERRY GARINO: Okay. So are you guys  
22 changing over right now?

23 BRUCE WATSON: Right now, yeah.

24 JERRY GARINO: Well, then maybe we'll call  
25 in ten or 15 minutes after the changeover brief.

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1 BRUCE WATSON: Well, just don't delay on  
2 this. Because we're behind the eight ball here.

3 JERRY GARINO: Okay.

4 BRUCE WATSON: Okay?

5 JERRY GARINO: Yep.

6 BRUCE WATSON: Thank you.

7 JERRY GARINO: Okay, bye.

8

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25

1 (CONFERENCE CALL INITIATED)

2 0%I0#26604065094

3 KEVIN WILLIAMS: PMT, this is a recorded line.

4 Hello?

5 MALE PARTICIPANT: Oh, hello. I have John  
6 Nelson on the line. He said you were expecting his call.

7 KEVIN WILLIAMS: John Nelson?

8 MALE PARTICIPANT: Yeah, DOE.

9 KEVIN WILLIAMS: Okay, I'll take the call.

10 MALE PARTICIPANT: All right, connect you  
11 now.

12 KEVIN WILLIAMS: John?

13 JOHN NELSON: Yeah.

14 MALE PARTICIPANT: This is Kevin Williams  
15 with the NRC. We've done a shift change, so I don't  
16 know who you were expecting to call. But hopefully I  
17 can either help you or --

18 JOHN NELSON: Yeah, the people we've been  
19 talking to before, it was Bruce Watkins, I believe, who  
20 was our main contact. Oh, no. It's probably Bruce Watson.  
21 So if he's there I think he'd be the guy we need.

22 KEVIN WILLIAMS: Yeah, Bruce is gone. But  
23 hold on one second.

24 JOHN NELSON: Okay.

25 MICHELLE HART: Hello, this is Michelle Hart.

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1 I am the radiological assessment assistant director  
2 for this shift.

3 JOHN NELSON: Hi, Michelle. This is John  
4 Nelson. So I'm from NARAC. I have Jerry Green on the  
5 line. I'm going to conference you in, him in.

6 MICHELLE HART: Okay.

7 JOHN NELSON: Hey, Jerry, are you there?

8 MALE PARTICIPANT: He just walked out for  
9 a second. But he'll be right back.

10 JOHN NELSON: Okay. So, Michelle, what was  
11 your last name again?

12 MICHELLE HART: Hart, H-A-R-T.

13 JOHN NELSON: Okay. I've only probably  
14 talked to you ten times since this started.

15 (Laughter)

16 JOHN NELSON: Yeah. So Jerry Green is on  
17 the line from DOE. This is regarding the MELCOR source  
18 term.

19 MICHELLE HART: Right.

20 JOHN NELSON: So whoever's up on that there  
21 is, I guess, who we want to talk to.

22 MICHELLE HART: Yes, that's me.

23 JOHN NELSON: Okay, very good.

24 JERRY GREEN: Who is that? Is this Michelle?

25 MICHELLE HART: That's correct. This is

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1 Michelle Hart.

2 JERRY GREEN: What I'd like to do is just  
3 go thorough and do the type of analysis that we understand  
4 was the source term made that we did produce, Supercore  
5 source term.

6 JOHN NELSON: You mean the MELCOR, right?

7 JERRY GREEN: (Indiscernible) MELCOR what  
8 we did for the Supercore.

9 JOHN NELSON: Yeah, yeah, right. Got you.

10 JERRY GREEN: So I got (indiscernible) --

11 MICHELLE HART: I'm sorry, Jerry. I can  
12 barely hear you.

13 JERRY GREEN: I've got a spreadsheet -- is  
14 this better?

15 MICHELLE HART: Yeah, that's a little better.

16 JERRY GREEN: I've got a spreadsheet here  
17 with a bunch of columns, Sources 1 through 7, and then  
18 a total.

19 MICHELLE HART: Uh-huh.

20 JERRY GREEN: And you've got this too, right,  
21 NARAC?

22 MALE PARTICIPANT: Well, I think you may  
23 be looking at the spreadsheet where we took the MELCOR  
24 analysis and then put it into one big spreadsheet, which  
25 give you the total activity of each nuclide at each time

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1 interval. Michelle, that was sent to the NRC, I think,  
2 when Bruce Watson was on. And they reviewed that and  
3 double checked it.

4 MICHELLE HART: Right. And I understood  
5 that was done this morning, yeah.

6 MALE PARTICIPANT: Yeah, okay. So I don't  
7 know if you have that in front of you though.

8 MICHELLE HART: I do have that.

9 MALE PARTICIPANT: Okay.

10 JERRY GREEN: So my first question, just  
11 looking at this, it looks like the amounts of iodine  
12 have gone down compared to Supercore.

13 JOHN NELSON: Yeah.

14 JERRY GREEN: Is that right?

15 MICHELLE HART: That's correct.

16 JERRY GREEN: Why is that?

17 MICHELLE HART: This is a more advanced model  
18 as far as station blackout. It's not exactly the same  
19 type of accident progression as was used in RASCAL, which  
20 was used for the Supercore.

21 JERRY GREEN: So what does that mean  
22 (indiscernible)?

23 MICHELLE HART: This was based on our most  
24 advanced, state of the art, accident consequence analysis  
25 code, MELCOR, which looks at accident progression in

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1 the cores.

2 And so it does release a different amount  
3 of iodine over a different time frame as opposed to the  
4 older NUREG-1465 model which is used in RASCAL.

5 So even though it may be the same amount of melt  
6 in the core, it gives a different release characteristic  
7 just because the state of knowledge has moved on.

8 JERRY GREEN: Why didn't you use this for  
9 the first one?

10 MICHELLE HART: We called in the experts  
11 to be able to provide this to us. We can't use this  
12 in MELCOR. I mean, we can't we use this in RASCAL.

13 We had to have it written out by hand and sent  
14 in on a, well not by hand, but sent in on an Excel spreadsheet.

15 And so we had to get the experts onboard to send that  
16 to us.

17 JERRY GREEN: Okay. And it also looks like,  
18 well, this is harder to tell. It looks like there's  
19 a lot more zeros in some of the other isotopes. Is that  
20 as expected?

21 MICHELLE HART: Yes.

22 JERRY GREEN: Why is that?

23 MICHELLE HART: The first three columns are  
24 the melted cores. There is some amount of decay from  
25 the time that they were shut down.

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1           It's also, it's released to the outside  
2 environment. Those are all the particulates. And  
3 they're stuck in the building. They're stuck in the  
4 RCS, according to the MELCOR model.

5           JERRY GREEN: Okay.

6           MICHELLE HART: They're not very volatile.

7           JERRY GREEN: Well my suggestion, for what  
8 it's worth, is that if this source term, which is plumes,  
9 goes up anywhere, somebody like (b)(6) is going  
10 to ask you questions.

11           So I think the time is worthwhile to  
12 anticipate all these questions and make sure you understand  
13 why (indiscernible) iodine (indiscernible), or this is  
14 higher, and this is now zero, or that's much greater  
15 and things like that. Because it's become a disaster.

16           MICHELLE HART: Yes, I understand.

17           JERRY GREEN: (Indiscernible) calculate it  
18 (indiscernible). I don't know how (indiscernible) but  
19 I think you should (indiscernible).

20           MICHELLE HART: Uh-huh.

21           JERRY GREEN: Okay, let's pursue for the  
22 Source One, the spent fuel pool. What would their  
23 parameters be, what does it assume, all the waters  
24 (phonetic) coming together, or what?

25           MICHELLE HART: I'm sorry. Say that again.

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1 JERRY GREEN: Michelle, did you see the draft  
2 (indiscernible) Supercore (indiscernible).

3 MICHELLE HART: I had seen it before. Let's  
4 see if I can find it.

5 JERRY GREEN: I think we need to do a similar  
6 document for (indiscernible) the questions we're asked  
7 of Supercore that I can't imagine you would ask in MELCOR.  
8 So we should make sure we understand everything while  
9 we have some time (indiscernible).

10 MICHELLE HART: I'm sorry. I can't seem to  
11 find that. And I can still barely hear you, especially  
12 with all the noise in the background. Let me look for  
13 it some more.

14 JERRY GREEN: John, if I gave you another  
15 number, could I get (indiscernible) another one.  
16 (Indiscernible)?

17 MICHELLE HART: It doesn't help any on this.

18 JOHN NELSON: Sorry, we were just talking  
19 about quickly finding that and emailing it. Would you  
20 like us to do that?

21 MICHELLE HART: I know I have it here. But,  
22 yeah, you can send it.

23 JOHNNELSON: Well, if you -- Jerry, go ahead.

24 JERRY GREEN: John, if I hang up on this  
25 number and give you another number to call me back, will

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1 that work?

2 JOHN NELSON: Yes, it will.

3 JERRY GREEN: All right, let me go get that  
4 number. I'm hoping that'll be a better phone and you'll  
5 be able to hear me better. Hold on.

6 JOHN NELSON: Okay.

7 MICHELLE HART: I just found the Supercore  
8 appendix. So you don't need to send that to me.

9 JOHN NELSON: Very good. We're impressed.

10 (Laughter)

11 MICHELLE HART: You have no idea. It is  
12 impressive.

13 JOHN NELSON: You must have a better filing  
14 system at NRC than we have at --

15 MICHELLE HART: We have a whole bunch of  
16 folders, that's all I know.

17 JOHN NELSON: Can you send your folder  
18 organizer out here?

19 (Laughter)

20 JOHN NELSON: We'll pay the air fare.

21 MICHELLE HART: I don't know if you can afford  
22 our folder person. I don't even know if I know who our  
23 folder person is.

24 (Offline comments)

25 JERRY GREEN: Okay, did you get the documents?

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1 I had --

2 JOHN NELSON: Yeah, Michelle has them.

3 MICHELLE HART: Yeah.

4 JERRY GREEN: Okay. So for instance, if we  
5 go to Number 2 where it talks about Unit 3, 50 percent  
6 of the total spent fuel is released to the atmosphere.

7 MICHELLE HART: Uh-huh.

8 JERRY GREEN: Is it the core, et cetera,  
9 and it has some other parameters. I think we're going  
10 to need all these for each of the spent fuel pools.

11 MICHELLE HART: Okay.

12 JERRY GREEN: Off this, do you know how much  
13 of the water is uncovered for a Source 1 spent fuel pool  
14 U1?

15 MICHELLE HART: What we sent you, from what  
16 I was told, did not include U1 and U2. But let me look  
17 at this. Yeah, it does have U1 and U2. This assumed  
18 that, for lack of better information, that it was all  
19 uncovered.

20 JERRY GREEN: Okay.

21 MICHELLE HART: So all of the fuel was melted  
22 in Units 1 and Units 2. We don't have any indication  
23 of that.

24 JOHN NELSON: Okay, this is spent fuel though  
25 for Unit 1 and Unit 2 you're talking about, right?

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1 MICHELLE HART: That's correct, the spent  
2 fuel pools for Unit 1 and Unit 2.

3 JERRY GREEN: And does that mean that the  
4 100 percent release is, the release factor is 100 percent?

5 MICHELLE HART: No. That means 100 percent  
6 of the fuel was melted. The release fractions for the  
7 pool, there's different release fractions for the  
8 different isotopes.

9 And this was based on some research that  
10 we had done. So for instance, I have another spreadsheet  
11 here, which I know that they probably did not send you.

12 As an example, crypton 85, 90 percent of that was released.

13 JERRY GREEN: Is that true for all the pools?

14 MICHELLE HART: Yes. The release fractions  
15 are the same for the pools. It may have different amounts  
16 of fuel that was melted though.

17 JERRY GREEN: Okay.

18 STEVE HOMANN: Michelle?

19 MICHELLE: Yes.

20 STEVE HOMANN: Could you give me the same  
21 example for cesium 137 please?

22 MICHELLE HART: Right. For cesium 137, 50  
23 percent of that was assumed to be released. So the pool  
24 inventory, 50 percent of it would be released, or the  
25 melt inventory actually, the inventory in the pool that

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1 was assumed to have undergone melting. Fifty percent  
2 of that was released.

3 STEVE HOMANN: That was assumed to be a 100  
4 percent melted?

5 MICHELLE HART: For Unit 4, that's correct.  
6 I mean for Unit 1 and Unit 2, yes, that's correct.  
7 For all of them it's correct, actually. We have another  
8 case here, so I'm getting ahead of myself.

9 JERRY GREEN: Okay. So for Source 3 and  
10 Source 4, it's also 100 percent melt?

11 MICHELLE HART: That's correct.

12 JERRY GREEN: Okay, and then they all have  
13 the same release fractions.

14 MICHELLE HART: That's correct.

15 JERRY GREEN: Do you know the batches, and  
16 the burn ups of the batches, and the time since removed  
17 from --

18 MICHELLE HART: Right. The only difference,  
19 we do have the number of assemblies that are in each  
20 spent fuel pool. And so that's what gave us the pool  
21 inventory.

22 And the only difference is for Unit 4 spent  
23 fuel pool, because it does have that core of freshly  
24 unloaded fuel which is younger than the rest of them,  
25 less decayed, its release duration was eight hours as

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1 opposed to the other three pools, which had a release  
2 duration of 16 hours.

3 JERRY GREEN: And why was that?

4 MICHELLE HART: That was based on some work  
5 we had done in our research related to spent fuel pool  
6 fires, based on research.

7 And so the reason that it's a shorter duration  
8 for Spent Fuel Pool 4 is because you have a higher thermal  
9 load from the fuel being less decayed.

10 JERRY GREEN: John, have got a pen handy  
11 to write down this number?

12 JOHN NELSON: Yeah.

13 JERRY GREEN: 702 -794-1110.

14 JOHN NELSON: Okay. 202 --

15 JERRY GREEN: 702.

16 JOHN NELSON: Oh, 702, okay. I thought that  
17 was a hiccup. Okay, 702-794-1110.

18 JERRY GREEN: I'm going to hang up here.  
19 Call me back on that one.

20 JOHN NELSON: Okay, will do. Okay. Standby,  
21 Michelle.

22 MICHELLE HART: Okay.

23 (Pause)

24 JOHN NELSON: Okay, Michelle and Jerry, are  
25 you both there?

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1 JERRY GREEN: I'm here.

2 MICHELLE HART: I'm here.

3 JERRY GREEN: Can you hear better?

4 MICHELLE HART: Yes, much better.

5 JERRY GREEN: Okay, so it's just a different  
6 phone. Sorry about that.

7 MICHELLE HART: That's all right.

8 JERRY GREEN: Okay. So what I would  
9 recommend we do is we should probably, if we have the  
10 inventories of the different pools by batch, and by burn  
11 up time, and time removed from the reactor and then time  
12 too uncovered, well actually time too uncovered would  
13 be specific to a scenario. But we should just go ahead  
14 and start documenting all that for this source term.

15 MICHELLE HART: We didn't go to that degree.

16 JERRY GREEN: I understand that.

17 MICHELLE HART: Right.

18 JERRY GREEN: But when we sent the document  
19 up to the, first it was a call about the document, then  
20 a discussion about the document, the first one with  
21 the Supercore source term. And we got these types of  
22 questions back --

23 MICHELLE HART: Uh-huh.

24 JERRY GREEN: -- from OSTP in particular.

25 And so that's when we scrambled to get this information.

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1 And we did that yesterday.

2 And that's why we made this appendix of the  
3 document we sent, which had the source term information.

4 And we sent that up.

5 And then that was followed by a conference  
6 call where an OSTP guy, (b)(5)

7 (b)(5)

8 And he said, okay, I'm going to back of the  
9 envelope some of this. And we went through that, and  
10 that's where it looks like, I don't know if there's been  
11 a definitive answer on this out of the NRC yet.

12 (b)(5)

13  
14  
15  
16  
17  
18  
19  
20 MICHELLE HART: Right.

21 JERRY GREEN: Because I'm not saying this  
22 is going to go anywhere. But if it does --

23 MICHELLE HART: Right.

24 JERRY GREEN: -- these questions are going  
25 to come. And it's best if we be prepared. I understand

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1 --

2 MICHELLE HART: So the case summary wasn't  
3 enough for that purpose?

4 JERRY GREEN: The what summary?

5 MICHELLE HART: The case summary that was  
6 sent with the source terms.

7 JOHN NELSON: Are you talking about the word  
8 document, Michelle?

9 MICHELLE HART: Yeah.

10 JOHN NELSON: Out of RASCAL? Well, the  
11 problem with that is we were given scaling factors, take  
12 this result but then multiply it by 0.5 and then use  
13 this case to multiply it by three.

14 So there were some other assumptions that  
15 were not documented in the case files. And I didn't  
16 get into the nitty gritty, but I also think there are  
17 maybe a few things that the case files didn't give us.

18 If you look at that appendix, there may be  
19 some information in there that was needed that wasn't  
20 in the case file. So anyway, that's the long answer.

21 MICHELLE HART: I guess I don't quite  
22 understand what you need. Just tell me exactly what  
23 you need, and I'll see if there's something I can do.

24 We have another spreadsheet here that we  
25 did to come up with the source that we gave you. And

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1 it has some of that information. But all the information  
2 that's on those was provided --

3 JOHN NELSON: Well, no, we're not talking  
4 about Supercore. That's documented.

5 MICHELLE HART: Right.

6 JOHN NELSON: So we're just talking about  
7 MELCOR now. We just want to put a similar, I think Jerry's  
8 just saying put a similar summary together of all the  
9 assumptions --

10 MICHELLE HART: Okay.

11 JOHN NELSON: -- for the MELCOR case.  
12 Although I guess the Supercore, the appendix describing  
13 the Supercore source term did out. And I guess, Jerry,  
14 that's, at least for Unit 2, we did need to correct that.  
15 Right?

16 JERRY GREEN: Well, we just corrected it  
17 on the conference call.

18 JOHN NELSON: Yeah, but I mean in the document.  
19 If we keep using the Supercore for future analysis,  
20 we need to fix that appendix, right?

21 JERRY GREEN: Yes, I think so.

22 JOHN NELSON: Okay. Do you know what we need  
23 to change there, Steve, if we need to change that?

24 STEVE: You mean the five percent?

25 JOHN NELSON: Yeah, the business about, just

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1 all this stuff here.

2 JERRY GREEN: So what it comes down to, and  
3 if you have the Supercore source term in front of you,  
4 basically what it comes down to is (b)(6) compared  
5 the cesium release quantity for Reactor 2, which he took  
6 to be about the --

7 MICHELLE HART: Yeah, I know. We discussed  
8 this yesterday. I think I understand the issue with  
9 the Supercore. I'm worried about the MELCOR. What do  
10 you need from us for the MELCOR?

11 JERRY GREEN: So I think we're going to need  
12 a similar thing, number of batches in each pond, the  
13 burn up of the batches, the time that each batch sat  
14 in the pond from when was it removed from the reactor,  
15 let's say. Let's get the date removed from the reactor.  
16 Then --

17 MICHELLE HART: But see, we didn't use that  
18 information.

19 JERRY GREEN: I understand you didn't use  
20 that information. But the fact of the matter is that  
21 OSTP asked us for that information.

22 MALE PARTICIPANT: Well, but something was  
23 assumed in MELCOR. I think all you can give is what  
24 was assumed in MELCOR.

25 JERRY GREEN: So I had a discussion with

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1 our under-secretary on these things. And the things  
2 that are in the Supercore appendix are the list of the  
3 type of things he said get these in the document to send  
4 to OSTP.

5 MALE PARTICIPANT: Right. But I guess I'm  
6 asking Michelle, in the input deck for MELCOR or whatever,  
7 all the assumptions that MELCOR used are somewhere, right?

8 And I think all Jerry's saying is can we --

9 MICHELLE HART: Well, I guess --

10 MALE PARTICIPANT: -- extract the  
11 assumptions for all these things.

12 MICHELLE HART: I guess my question is do  
13 you need the real data from the plant and also our  
14 assumptions or just our assumptions. Because I can give  
15 you our assumptions.

16 MALE PARTICIPANT: That's it.

17 MICHELLE HART: I'll have to look up and  
18 see if I can find all the data. I don't know that we  
19 have all that data.

20 MALE PARTICIPANT: Hey, Jerry, you just want  
21 the assumptions used for the MELCOR source term, right?

22 JERRY GREEN: Well, I think that's a good  
23 start. Does MELCOR need how many batches, and how long  
24 they've been out of the reactor and when did they get  
25 exposed?

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1 MICHELLE HART: There was a run that we did  
2 with the Peach Bottom plant. We used that to give us  
3 the release fractions. And then we used the number of  
4 assemblies that were in the pool.

5 We didn't try to adjust it for burn up or  
6 anything like that. We just took the total number of  
7 assemblies in the pool for Units 1 through 3.

8 We assumed it was all aged over 500 days,  
9 because the runs that were done with MELCOR for the Peach  
10 Bottom plant did one run with 100 days and one run with  
11 500 days.

12 And it may not be exactly correct, but we  
13 assumed those were all 500 day old fuel, for lack of  
14 better information or for lack of needing to model it  
15 more precisely. Because we weren't showing any damage  
16 in one and two, realistically.

17 And then for Unit 4 we had one core's worth,  
18 that number of assemblies of 100 day old fuel. And the  
19 rest of them were 500 day old fuel.

20 However, the release fractions were the same  
21 whether they were old or new fuel. And the only difference  
22 was with the heat loading to give you the release duration.

23 And so we used the curies per megawatt thermal  
24 from the RASCAL manual to tell us what the inventory  
25 was in each pool based on a per assembly basis, multiplied

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1 it all together, multiplied it by the release fraction,  
2 and that's what we sent you.

3 So it was not specific to a batch this old,  
4 another batch this old, another batch this old. We did  
5 not go to that length. We didn't think it was necessary.

6 JERRY GREEN: How many batches are in Fuel  
7 Pools 1, 2 and 3?

8 MICHELLE HART: Let's see if I have that  
9 information. I can tell you how many assemblies are  
10 in that. I have that right in front of me. But as far  
11 as batches --

12 JERRY GREEN: Okay, good.

13 MICHELLE HART: -- I don't know.

14 JERRY GREEN: How many assemblies?

15 MICHELLE HART: Assemblies in Unit 1 are

16 (b)(4) Unit 2 is (b)(4) Unit 3 is (b)(4) And Unit 4 is 1 (b)(4)

17 And that's what we had heard from GE. And  
18 of those in Unit 4, (b)(4) of them are the freshly unloaded  
19 fuel. I think that's what I'm seeing.

20 JERRY GREEN: Say that again about Unit 4.

21 MICHELLE HART: Unit 4, (b)(4) assemblies were  
22 the freshly unloaded fuel. I don't think that's right  
23 though. Maybe I'm reading it wrong.

24 JERRY GREEN: Let's see. In the old source  
25 term we say that --

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1 MICHELLE HART: I think I'm reading the wrong  
2 number.

3 JERRY GREEN: There's one core. How many  
4 assemblies are in a batch?

5 MICHELLE HART: For Unit 4 there's (b)(4)  
6 I read the wrong number. I'm sorry. There's (b)(4) in a  
7 core. And the whole core is in Unit 4. One batch is  
8 one third of a core.

9 JERRY GREEN: Okay, so let's see. So Unit  
10 4 has (b)(4) of which (b)(4) and how many are new?

11 MICHELLE HART: (b)(4)  
12 (b)(4) excuse me, are 100 days old, assumed. They've been  
13 100 days out of the core. And the remainder are assumed  
14 to be 500 days old.

15 JERRY GREEN: In the Supercore source term,  
16 the new ones were 30 days old. So you changed that from  
17 30 to 100?

18 MICHELLE HART: That's correct.

19 JERRY GREEN: Why did you do that?

20 MICHELLE HART: I don't know why 30 was picked  
21 in the first place. We had conflicting information at  
22 that time as to what time they had taken the fresh fuel  
23 out of the core.

24 I think we've settled on, it was 105 days  
25 ago that they took that fuel out of Unit 4.

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1 MALE PARTICIPANT: I recall, Michelle, that  
2 105 days, I thought it was a fuel pool for maybe Unit  
3 3.

4 MICHELLE HART: Uh-huh.

5 MALE PARTICIPANT: And that the bundle in  
6 Unit 4 was the 30 day.

7 MICHELLE HART: That's what it was in the  
8 Supercore. That's correct. But I think we have since  
9 learned that 105 was good for, or around 100 was good  
10 for Unit 4.

11 I can't find that in front of me right now  
12 for some reason. But the point is, we didn't have the  
13 information necessary. We only had 105 and 100 day old  
14 categories for MELCOR for the heat loading part of it.

15 JERRY GREEN: Okay. Well, is Michael Dillon  
16 there by any chance, John?

17 JOHN NELSON: We're hoping he's sound asleep.  
18 He was here too long last night.

19 JERRY GREEN: Okay. Well, can we assign  
20 someone at NARAC to start writing in these assumptions,  
21 take the old documents, take the Supercore source term  
22 appendix. Let's go through and delete stuff and start  
23 putting in the new stuff.

24 JOHN NELSON: Okay. Yeah, we've been trying  
25 to take notes here as we go. I think Steve Homann has

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1 the best ones. I've got some.

2 But honestly, I don't know, Michelle, we  
3 can't task you, obviously. But I could be much better  
4 at it.

5 MICHELLE HART: Right.

6 JOHN NELSON: And whoever's (phonetic) here  
7 is going to have to review it when we get done.

8 MICHELLE HART: You do have that word  
9 document that we sent with the best case estimate MELCOR.  
10 Is that correct?

11 JOHN NELSON: Yeah, we have --

12 MICHELLE HART: That little short write-up.

13 JOHN NELSON: Well, it says Unit 1 core,  
14 Unit 2 core, Unit 3 core, yeah. I didn't see any summaries  
15 of the stuff we've been talking about though. Was there  
16 an additional summary?

17 MICHELLE HART: The summary I'm looking at  
18 is titled March 19th, 2011, source term for realistic  
19 worst case scenario.

20 I'm assuming this was sent to you. It's  
21 attached to an email. Maybe it wasn't sent to you. It  
22 talks about the spent fuel pool inventories were based  
23 on origin results provided by GE for Unit 4, assuming  
24 a mix of 100 day and 500 day offloaded fuel.

25 JOHN NELSON: Yeah, I haven't seen that.

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1 But it's possible that it was sent. But if you could  
2 resend it, that would be good. But I still think it'd  
3 be best if you guys summarize it.

4 JERRY GREEN: What I'll do is I'll take this  
5 spreadsheet, this big spreadsheet. And I'll go back  
6 and I'll put in a few more things that we could put at  
7 the top of the columns. And I'll send that out and,  
8 maybe we can get it filled in.

9 MICHELLE HART: Okay.

10 JERRY GREEN: Then from there, we can use  
11 that information -

12 MICHELLE HART: Okay.

13 JERRY GREEN: -- to write the document and  
14 just put it into a word document.

15 JOHN NELSON: Okay. Let's move on to the  
16 cores. What do we know about the cores?

17 MICHELLE HART: The cores, we melted them.  
18 These are station blackout scenarios using the MELCOR  
19 computer code. We melted --

20 JERRY GREEN: What does station blackout  
21 mean?

22 MICHELLE HART: Station blackout means no  
23 power whatsoever to the plants. And so then there's  
24 no way to get cooling other than natural cooling.

25 So then it progresses from there. So it's

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1 not an assumption that the core is uncovered at a specific  
2 time. It doesn't use the same source term assumptions  
3 that RASCAL does.

4 JERRY GREEN: Okay. So then does this, for  
5 instance, you turn off the power on March 11th and you  
6 see what happens. Is that where these numbers came from?

7 MICHELLE HART: That's approximately  
8 correct, yes.

9 JERRY GREEN: And then what happens, what  
10 does this lead to? Did power eventually come back on?

11 MICHELLE HART: No. Power is not recovered.  
12 And so this is, it eventually progresses so that it  
13 heats up the core. And you have melting. And then you  
14 breach the containment and it's released to the outside  
15 environment.

16 JERRY GREEN: You breach the pressure vessel  
17 or --

18 MICHELLE HART: You breach the pressure  
19 vessel, you breach the primary containment, you breach  
20 the secondary containment.

21 JERRY GREEN: Okay.

22 MALE PARTICIPANT: And the secondary  
23 containment is just merely the building in this case,  
24 the skin of the building?

25 MICHELLE HART: That's correct.

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1 MALE PARTICIPANT: Thank you.

2 JERRY GREEN: So the core turns into a  
3 gelatinous blob that settles at the bottom of the pressure  
4 vessel? Is that it? Or it melts through that or what?

5 MICHELLE HART: It melts, and then it melts  
6 through the reactor vessel and enters the primary  
7 containment.

8 JERRY GREEN: Okay. So this is basically  
9 the total meltdown.

10 MICHELLE HART: This is the total meltdown  
11 without containment integrity. that's correct.

12 JERRY GREEN: Okay.

13 MICHELLE HART: The start times that were  
14 given are the times that the release to the outside  
15 environment starts.

16 JERRY GREEN: According to the --

17 MICHELLE HART: We use the times that we  
18 saw the hydrogen explosions in real time, when the  
19 secondary containments had their hydrogen explosions  
20 at each unit.

21 We do not think that this whole thing has  
22 happened. However, this is the worst case scenario.  
23 But to give us a time frame we said, okay, when we saw  
24 the hydrogen explosions, that would indicate damage.

25 It did not necessarily indicate the breaching

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1 of the secondary containment, which this time this release  
2 is showing as the breach of the primary containment,  
3 and secondary containment and released directly to the  
4 environment.

5 JERRY GREEN: Why is the release only a half  
6 hour?

7 MICHELLE HART: Once the primary containment  
8 is breached, the MELCOR model shows that it is released  
9 to the atmosphere within a half hour for all constituents.

10 It's just the releasing of the primary  
11 containment. Up until that point, it's being released  
12 to the primary containment over a longer time period,  
13 like a 20 hour time period.

14 JERRY GREEN: Do we know what the release  
15 fraction is?

16 MICHELLE HART: The release fractions, I  
17 do have those. I have them in terms of chemical groups.

18 So for example, for the cesiums the release fraction  
19 to the outside environment is 0.018. Well no, excuse  
20 me, it's 1.8. I'm reading it wrong. They have it titled  
21 wrong, actually.

22 JERRY GREEN: So 1.8 percent?

23 MICHELLE HART: Of the core inventory is  
24 released to the outside environment.

25 JERRY GREEN: Okay. So comparing this to

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1 Supercore, the amount of cesium release is just maybe  
2 a factor of two greater.

3 MICHELLE HART: Yes.

4 JERRY GREEN: Is that because the Supercore  
5 assumes a much greater release percentage?

6 MICHELLE HART: The Supercore, the release  
7 percentage from the core to the containment is  
8 approximately 30 percent of the melted fuel, cesium,  
9 is that right, no. Where's my book.

10 JERRY GREEN: I see. I was comparing total  
11 to total. I shouldn't do that.

12 MICHELLE HART: Yeah, there's some  
13 differences in hang up in the RCS and in the buildings  
14 and things like that, the (indiscernible).

15 JERRY GREEN: When you compare Core 2 to  
16 Core 2, it looks like cesium 137 for Core 2 is 2-9-6-0-0-0,  
17 296,000. And here it's 112,000. So we're releasing --  
18 am I doing that right -- releasing almost one third as  
19 much cesium as in the first scenario. Do you agree with  
20 that?

21 MICHELLE HART: Where's my first scenario?  
22 Yeah, if you read those numbers correctly, yes.

23 JERRY GREEN: Okay.

24 MICHELLE HART: Wait a minute, yeah.

25 JERRY GREEN: Does that make sense? This

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1 is supposed to be a much more dire thing. And we're  
2 releasing only one third the amount of cesium.

3 MICHELLE HART: The much more dire, the  
4 MELCOR model actually has more cesium held up and plated  
5 out on surfaces in the containment, and then the RCS,  
6 than the model that was used in the Supercore.

7 And that's just from advancement and  
8 knowledge. And so the MELCOR model models that a little  
9 more precisely.

10 And so there's less getting out to the  
11 containment in the first place to be released to the  
12 environment using the MELCOR model, even though the same  
13 amount of fuel is damaged.

14 JERRY GREEN: Why is there a difference  
15 between Core 1 and Core 2?

16 MICHELLE HART: Core 1 is a smaller reactor.  
17 It'd be WR3. It's got a lower power.

18 JERRY GREEN: Okay.

19 MICHELLE HART: Two and three are the same  
20 power, the same type of reactor.

21 JERRY GREEN: What is the power of Core 1,  
22 do you know, in megawatts thermal?

23 MICHELLE HART: Core 1 is -- I know I have  
24 it here.

25 (Pause)

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1 JERRY GREEN: Okay. My guess is it's going  
2 to be something like --

3 MICHELLE HART: I think it's 18 --

4 JERRY GREEN: -- 1,200 or something.

5 MICHELLE HART: I think it was 1,830. Do  
6 you know the thermal power of Unit 1? I'm asking the  
7 dose analyst. She can probably get to it faster.

8 FEMALE PARTICIPANT: Thirteen-eighty.

9 MICHELLE HART: Fourteen-eighty?

10 FEMALE PARTICIPANT: Thirteen-eighty.

11 MICHELLE HART: Thirteen-eighty, excuse me,  
12 1,380 megawatts thermal.

13 JERRY GREEN: Okay. So it's a burn up or  
14 does any of that matter for this?

15 MICHELLE HART: For this, no. We assumed  
16 they were all the same burn up, which is 40,000. And  
17 that's our standard assumption.

18 JERRY GREEN: Okay. And I guess, basically,  
19 the entire core is melted. So melting is 100 percent,  
20 things like that.

21 MICHELLE HART: That's correct.

22 JERRY GREEN: Okay. All right. What I  
23 propose to do then is to edit this table, put some entries  
24 into it, and send that around so we can make sure we  
25 understand this.

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1 Now, everyone agrees that the total numbers  
2 look reasonable? And everyone likes the release times  
3 and release durations.

4 MICHELLE HART: We certainly have had  
5 agreement here among our several specialists.

6 JERRY GREEN: Okay. So let me do that. Let  
7 me get these things in.

8 MICHELLE HART: Okay.

9 JERRY GREEN: And then I think perhaps we  
10 can start the simulation. Now, John, you think we're  
11 good to have this release span over a couple of days  
12 as it's currently defined?

13 MALE PARTICIPANT: I believe so, Jerry.  
14 John stepped out.

15 JERRY GREEN: Can I ask, what are the release  
16 times for the pools? What were they determined by?

17 MICHELLE HART: The first one was determined  
18 by a time that we had heard that the spent fuel pool  
19 was empty of water.

20 The others were just followed one day after  
21 another. There's no specific reasoning. We just assumed  
22 they were 24 days after the previous. Three and four  
23 went at the same time.

24 JERRY GREEN: And we saw fire or something  
25 at that point?

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1 MICHELLE HART: We saw fire at that time.  
2 It was also predicated on being 24 hours after the previous  
3 reactor release, just no information plus we don't have  
4 any indication Units 1 and 2 are in as dire a situation  
5 as three and four, the spent fuel pools.

6 JERRY GREEN: And these were run through MELCOR  
7 too. MELCOR does spent fuel uncovered from beginning  
8 to end. Is that it?

9 MICHELLE HART: There was a MELCOR model  
10 run for the Peach Bottom plant. We used the information  
11 from that run to come up with the release times, and  
12 release durations and release fractions.

13 JERRY GREEN: What is Peach Bottom?

14 MICHELLE HART: Peach Bottom is a Mark 1  
15 BWR in the United States. It's approximately the same  
16 size as Unit 1. And it was one of the model plants that  
17 we used for doing this research. It was done for another  
18 purpose. It was not done for this specific event.

19 JERRY GREEN: And why is it applicable to  
20 spent fuel pools?

21 MICHELLE HART: The run was done for spent  
22 fuel from a BWR Mark 1.

23 JERRY GREEN: Oh, okay.

24 MICHELLE HART: But it's fuel. So it's the  
25 same type of fuel. And we think the pools are very similar

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1 in sizing.

2 JERRY GREEN: But was there containment or

3 --

4 MICHELLE HART: There was no containment.

5 The buildings are the same as the buildings over there,  
6 the corrugated metal siding, six stories of the ground.

7 JERRY GREEN: Just because I'm curious, why  
8 are the spent fuel pools in the air like this?

9 MICHELLE HART: That I can't tell you. I  
10 think maybe it was partially for ease in the refueling.

11 You just take the lid off and then you smooth it to  
12 the pool, which is on the same level as the drywell lid,  
13 can't think of the right term.

14 But we certainly do not use that design  
15 anymore. The Mark 2s went to a different design even  
16 where you have the spent fuel pools on the ground or  
17 underground.

18 JERRY GREEN: I see. Okay, so let me go do  
19 this and I'll send it around so we can move on.

20 MICHELLE HART: Okay. Do we have an  
21 approximate time when you might be starting that run?

22 JERRY GREEN: I think we should be able to  
23 start it this afternoon.

24 MICHELLE HART: Okay. From what I've been  
25 told, the sooner the better. Because this is a high,

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1 high priority --

2 JERRY GREEN: Yeah.

3 MICHELLE HART: -- for us and for the White  
4 House.

5 JERRY GREEN: Okay.

6 MICHELLE HART: Okay.

7 JERRY GREEN: Yeah, we'll get it started.

8 MICHELLE HART: And then if you have better  
9 information, like once you get started, about how long  
10 it's going to take, if there's some reason that you have  
11 better information, just let me know.

12 JERRY GREEN: Yeah. I think our uncertainty  
13 is going to be that we have these longer release times.  
14 So we're not exactly sure how long --

15 MICHELLE HART: How long it's going to take.

16 JERRY GREEN: -- it's going to take. Because  
17 we're doing TransPacific.

18 MICHELLE HART: Right. Okay. Well, keep  
19 us informed.

20 JERRY GREEN: Okay.

21 MICHELLE HART: All right. And if there's  
22 additional information you need, just let me know and  
23 I'll try to look it up for you.

24 JERRY GREEN: Yeah. If we mail something  
25 to you, what's the email address we should use?

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1 MICHELLE HART: You can use pmt, Papa, Mike,  
2 Tango, 12.hoc@nrc.gov.

3 JERRY GREEN: .hoc, Hotel, Oscar --

4 MICHELLE HART: Charlie.

5 JERRY GREEN: Sorry.

6 MICHELLE HART: I guess, yeah.

7 JERRY GREEN: Okay. Okie doke.

8 MICHELLE HART: All right. Thank you.

9 JERRY GREEN: Thanks, everybody.

10 MALE PARTICIPANT: Okay, goodbye.

11 MICHELLE HART: Bye.

12 JERRY GREEN: Bye.

13

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1 (CONFERENCE CALL INITIATED)

2 0%I3MHLL04065094

3 MALE PARTICIPANT: PMT, this is a recorded  
4 line.

5 MALE PARTICIPANT: Transferring Dr. Roy  
6 Parker, standby.

7 MALE PARTICIPANT: Dr. Roy Parker? Hello.

8 DR. ROY PARKER: Hello.

9 MALE PARTICIPANT: Who am I speaking with?

10 DR. ROY PARKER: Dr. Roy Parker.

11 MALE PARTICIPANT: Parker?

12 DR. ROY PARKER: Yes.

13 MALE PARTICIPANT: And who did you want to  
14 speak with?

15 DR. ROY PARKER: I don't imagine that Bruce  
16 Foster is there or is he?

17 MALE PARTICIPANT: No. Bruce is not here.  
18 But Michele Hart is.

19 DR. ROY PARKER: Michelle is?

20 MALE PARTICIPANT: Yes.

21 DR. ROY PARKER: That's fine. Let me talk  
22 to Michelle then.

23 MALE PARTICIPANT: Okay, hold on.

24 MICHELLE HART: This is Michelle Hart. I'm  
25 the radiological assessment assistant director.

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1 DR. ROY PARKER: Michelle, Dr. Roy Parker  
2 again.

3 MICHELLE HART: Hello.

4 DR. ROY PARKER: You'll probably hear from  
5 me daily for the time being. Question, basically this  
6 is a FedEx, UPS question.

7 MICHELLE HART: Uh-huh.

8 DR. ROY PARKER: Any changes as far as the  
9 flights activity in the air sort of thing is concerned?

10 MICHELLE HART: We don't have anymore recent  
11 information than the information that we had talked about  
12 yesterday.

13 DR. ROY PARKER: Okay.

14 MICHELLE HART: We're trying to get that  
15 information from the DOE.

16 DR. ROY PARKER: All right. Let me also ask  
17 you this, something we are quite interested in. I know  
18 that DOE or somebody is supposedly flying, monitoring  
19 flights over there --

20 MICHELLE HART: That is correct.

21 DR. ROY PARKER: -- foreground contamination.

22 MICHELLE HART: That is correct.

23 DR. ROY PARKER: We are most interested in  
24 that simply because of the outbound package question.

25 MICHELLE HART: Right.

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1 DR. ROY PARKER: And also another reason  
2 that we're quite interested in it is because, you may  
3 or may not know that for years both companies have used  
4 Gateway monitors basically for scanning for radioactive  
5 materials being at a customs site.

6 But we're actually going to be using these  
7 or are using these to the best extent that we can. Because  
8 first off, all the packages coming into the U.S. were  
9 previously scanned.

10 MICHELLE HART: Right.

11 DR. ROY PARKER: We're not changing them  
12 to scan all the packages, not for radioactive materials,  
13 but we're going to be using it to scan for contamination  
14 --

15 MICHELLE HART: Right.

16 DR. ROY PARKER: -- is really what it amounts  
17 to. And we're having difficulty because of background  
18 stability, that sort of stuff --

19 MICHELLE HART: Right, right.

20 DR. ROY PARKER: -- is one of the reasons  
21 that I am most interested in those monitoring flights  
22 by DOE.

23 MICHELLE HART: Okay.

24 DR. ROY PARKER: So let me just pass that  
25 on to you. I am getting some, there is a site in Japan

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1 that I'm getting data from. But we've got some anomalies  
2 some where out there. I figured that out yet.

3 MICHELLE HART: Right, okay.

4 DR. ROY PARKER: Anyway, whatever you can  
5 do, I'd appreciate it.

6 MICHELLE HART: Okay. What is your number,  
7 your contact number?

8 DR. ROY PARKER: Contact number?

9 MICHELLE HART: Yeah.

10 DR. ROY PARKER: 225 --

11 MICHELLE HART: 225.

12 DR. ROY PARKER: 924 --

13 MICHELLE HART: 924.

14 DR. ROY PARKER: 1473.

15 MICHELLE HART: 1473.

16 DR. ROY PARKER: I hope you got off this  
17 line since I talked to you yesterday afternoon. Hopefully  
18 you --

19 MICHELLE HART: I --

20 DR. ROY PARKER: -- or did you spend the  
21 night up there?

22 MICHELLE HART: No, I walked around a lot,  
23 actually more like midnight. But yeah, thanks. I'm  
24 back again.

25 DR. ROY PARKER: Okay.

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1 MICHELLE HART: All right. So you're  
2 interested in understanding if -- and I just want to  
3 repeat this back so I understand -- if there's any  
4 indications that we should, that there's danger with  
5 air travel in that area.

6 DR. ROY PARKER: No. I'm not so much about  
7 air travel. Basically I --

8 MICHELLE HART: You're more interested in  
9 the background on the ground --

10 DR. ROY PARKER: More interested in the  
11 background.

12 MICHELLE HART: -- contamination? Okay.

13 DR. ROY PARKER: The reason for the air travel  
14 or the plumes, is there any, we've got both mechanics,  
15 flight crews --

16 MICHELLE HART: Right.

17 DR. ROY PARKER: -- (indiscernible)  
18 mechanics. Okay, they're thinking --

19 MICHELLE HART: Okay, contamination of the  
20 planes that you're interested in.

21 DR. ROY PARKER: Yeah.

22 MICHELLE HART: Okay, I understand.

23 DR. ROY PARKER: Because a lot of them are  
24 thinking back to the days of the Pacific atmosphere bomb  
25 testing. And I keep telling them this is two totally

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1 different things.

2 MICHELLE HART: It is. But it's  
3 (indiscernible).

4 DR. ROY PARKER: But getting that over to  
5 them's uphill battle.

6 MICHELLE HART: Okay. So you're interested  
7 in the potential contamination to the planes and the  
8 potential contamination, or the ground contamination  
9 affecting the background on your monitors.

10 DR. ROY PARKER: Yes.

11 MICHELLE HART: Okay. I'll see what --

12 DR. ROY PARKER: And also the contamination  
13 elsewhere, seeing if there's any particular thing.  
14 Because things have been dead right now. But I don't  
15 know it or not, Monday is a Japanese holiday.

16 MICHELLE HART: Oh, okay.

17 DR. ROY PARKER: And so we're expecting  
18 Tuesday --

19 MICHELLE HART: To be quite busy.

20 DR. ROY PARKER: The freight business will  
21 get back to somewhat more normal than it was this week.

22 MICHELLE HART: Okay.

23 DR. ROY PARKER: And the one reason that  
24 we're sort of anxious. Right now we're trying to stabilize  
25 our monitoring equipment over there and get a handle

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1 on it.

2 MICHELLE HART: Okay.

3 DR. ROY PARKER: But it was going berserk  
4 in some cases, which strangely enough the background  
5 in most places over there hasn't really changed  
6 significantly at all.

7 MICHELLE HART: Right. Okay.

8 DR. ROY PARKER: The Japanese say they are  
9 showing some passage of plumes at a couple of places  
10 on, I think, about the 15th, 16th, if I remember right.

11 MICHELLE HART: Uh-huh.

12 DR. ROY PARKER: Something like that. But  
13 other than that, it came right back down to normal again.

14 MICHELLE HART: Okay.

15 DR. ROY PARKER: And I just can't imagine,  
16 we're seeing right now at Narita Airport, we've got at  
17 least five Gateway monitors. And we're seeing about  
18 two to two and a half times our normal background.

19 MICHELLE HART: Okay.

20 DR. ROY PARKER: So that's the stuff I'm  
21 after.

22 MICHELLE HART: Okay. I will find out what  
23 information we have and what we can tell you.

24 DR. ROY PARKER: Appreciate it very much.

25 MICHELLE HART: Thank you.

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DR. ROY PARKER: Thank you.

MICHELLE HART: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%I5S0#L04065094

3 KEVIN WILLIAMS: PMT, this is a recorded  
4 line. Kevin Williams speaking.

5 MALE PARTICIPANT: Transferring a DOE rep.

6 KEVIN WILLIAMS: Okay. Hello.

7 JERRY GARINO: Hi, this is Jerry Garino,  
8 DOE. Who am I speaking with.

9 KEVIN WILLIAMS: My name is Kevin Williams.  
10 Who are you looking for?

11 JERRY GARINO: Hi, Kevin. I sent to the PMT  
12 email, one of them anyway, a call in number for a conference  
13 call with OSTP and possibly some National Security staff.

14 KEVIN WILLIAMS: I see it.

15 JERRY GARINO: So I don't know who, maybe  
16 Michelle Hart would want to be on that.

17 KEVIN WILLIAMS: Yeah, we'll call her. Is  
18 it the 202 number?

19 JERRY GARINO: (Indiscernible).

20 KEVIN WILLIAMS: 245-2099.

21 JERRY GARINO: Yeah.

22 KEVIN WILLIAMS: Is there a PIN or is it  
23 a system version (phonetic).

24 JERRY GARINO: Yes, there is a PIN, (b)(6)  
25 I think that's an email.

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1 KEVIN WILLIAMS: Yeah, I see it. Yeah.

2 JERRY GARINO: Okay.

3 KEVIN WILLIAMS: All right.

4 JERRY GARINO: Thank you.

5 KEVIN WILLIAMS: Thank you.

6 JERRY GARINO: Okay, bye.

7 KEVIN WILLIAMS: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%IP7E8L04065094

3 MICHELLE HART: PMT, this is a recorded line.

4 This is Michelle Hart.

5 MALE PARTICIPANT: Yeah, I've got Mike  
6 McBrearty from San Onofre for you.

7 MICHELLE HART: Okay. Hello.

8 MIKE MCBREARTY: Hi. This is Mike McBrearty  
9 from the San Onofre Nuclear Generating Station.

10 MICHELLE HART: Hi, how are you? This is  
11 Michelle Hart.

12 MIKE MCBREARTY: Hi, Michelle. Hey, we've  
13 been asked by Region IV to make some voluntary calls  
14 just to give some results of air sampling that we've  
15 been doing.

16 MICHELLE HART: Okay.

17 MIKE MCBREARTY: So we had made a call, I  
18 talked to Trish Holahan last night.

19 MICHELLE HART: Right, okay.

20 MIKE MCBREARTY: And we've got some updated  
21 numbers today.

22 MICHELLE HART: Okay.

23 MIKE MCBREARTY: So we have results of three  
24 different air samples, three different locations, that  
25 were taken over a 24 hour duration.

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1 MICHELLE HART: Okay.

2 MIKE MCBREARTY: I believe the count was  
3 for one hour. And we were getting numbers between 6.5  
4 to 7.0 E to the minus 13 microcuries per cc for iodine  
5 131.

6 MICHELLE HART: Okay.

7 MIKE MCBREARTY: We're not detecting any  
8 other isotopes.

9 MICHELLE HART: No other isotopes, okay.  
10 And we have previous information on your level of  
11 detectability?

12 MIKE MCBREARTY: Correct.

13 MICHELLE HART: Okay. And that's slightly  
14 above that range now?

15 MIKE MCBREARTY: It is above that range.  
16 So these are positive.

17 MICHELLE HART: Okay. And you're planning  
18 to continue to do these --

19 MIKE MCBREARTY: Yes.

20 MICHELLE HART: -- these counts.

21 MIKE MCBREARTY: We're going to continue  
22 to do the counts. And we're planning to still give you  
23 daily updates.

24 MICHELLE HART: Okay. So this was a 24 hour  
25 duration sample with a one hour count. And they all

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1 were in the range of 6.5 to 7.0 E minus 13 microcuries  
2 per cc of iodine 131.

3 MIKE MCBREARTY: That's correct.

4 MICHELLE HART: Okay. Thank you very much.

5 MIKE MCBREARTY: Okay. And then we'll give  
6 another update tomorrow.

7 MICHELLE HART: All rightie. Thanks.

8 MIKE MCBREARTY: You're welcome.

9 MICHELLE HART: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%IPRMA\_04065094

3 MICHELLE HART: PMT, this is a recorded line.

4 This is Michelle Hart.

5 DONALD MOORE: Michelle, this is Donald Moore  
6 with the Headquarters Operations Officer. I have Mr.  
7 Terry McClellan, who is the Unit 2 shift manager at Palo  
8 Verde.

9 MICHELLE HART: Okay.

10 DONALD MOORE: He's going to get up and talk  
11 to you. They've detected a little bit of iodine 131  
12 out there at Palo Verde.

13 MICHELLE HART: Okay.

14 DONALD MOORE: So I'm going to connect you  
15 with him.

16 MICHELLE HART: Thank you. Hello.

17 TERRY MCCLELLAN: Yes, hello. Who is this  
18 please?

19 MICHELLE HART: This is Michelle Hart. I'm  
20 the radiological assessment assistant director.

21 TERRY MCCLELLAN: Yeah, Michelle, this is  
22 Terry McClellan, Palo Verde Nuclear Generating Station,  
23 Unit 2 shift manager.

24 MICHELLE HART: Okay.

25 TERRY MCCLELLAN: I have been forwarded to

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1 you to inform you that at time 1440 today, 24 hour sample  
2 results have indicated that we have received iodine at  
3 the Palo Verde Unit 2 auxiliary building roof sample  
4 location.

5 MICHELLE HART: Okay.

6 TERRY MCCLELLAN: The iodine concentration  
7 has been evaluated at 1.54, ten to the minus 12th  
8 microcuries per cc.

9 MICHELLE HART: Okay.

10 TERRY MCCLELLAN: And it is iodine 131.

11 MICHELLE HART: Okay. So that was 1.54 times  
12 ten to the minus 12 microcuries per cc, iodine 131.

13 TERRY MCCLELLAN: That is correct.

14 MICHELLE HART: Okay.

15 TERRY MCCLELLAN: I do have the affluent  
16 sample data sheet that we used. And we can send that  
17 to you if you would like.

18 MICHELLE HART: Sure, that would be great.

19 TERRY MCCLELLAN: Do you have who I would  
20 send that to particularly?

21 MICHELLE HART: Yes, the email address is  
22 pmt, that's Papa, Mike, Tango --

23 TERRY MCCLELLAN: Okay.

24 MICHELLE HART: Twelve --

25 TERRY MCCLELLAN: Twelve --

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1 MICHELLE HART: Dot --

2 TERRY MCCLELLAN: Dot --

3 MICHELLE HART: hoc --

4 TERRY MCCLELLAN: hoc --

5 MICHELLE HART: @nrc.gov.

6 TERRY MCCLELLAN: @nrc.gov.

7 MICHELLE HART: That's correct.

8 TERRY MCCLELLAN: I will make sure this gets  
9 sent to you. The cover sheet would be sufficient or  
10 do you want all the test data?

11 MICHELLE HART: What does the cover sheet  
12 have on it?

13 TERRY MCCLELLAN: The basic cover sheet just  
14 gives us the idea of the location of the sample, the  
15 times of the samples, the flow rates, the particulate  
16 iodine values per cc, the duration, efficiency, that  
17 kind of information.

18 MICHELLE HART: Okay. Does it have the  
19 minimum level of detectability of your unit?

20 TERRY MCCLELLAN: That's what I'm looking  
21 for on the form. I do not see anything that describes  
22 minimum detectability, no.

23 MICHELLE HART: Okay. You could --

24 TERRY MCCLELLAN: We can send you all the  
25 sample data we have.

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1 MICHELLE HART: Okay, that would be great.

2 TERRY MCCLELLAN: Okay, we'll send that to

3 Papa, Mike, Tango 12. Hotel, Oscar, Charlie @nrc.gov.

4 MICHELLE HART: That's correct.

5 TERRY MCCLELLAN: In care of anybody or that

6 would be good?

7 MICHELLE HART: That would be fine.

8 TERRY MCCLELLAN: Okay. We'll take care of

9 that.

10 MICHELLE HART: All right. Thank you very

11 much.

12 TERRY MCCLELLAN: You're welcome. Oh, just

13 to let you know, I did tell the central call that this

14 was being done at the request of our NRC resident, Joe

15 Bashore.

16 MICHELLE HART: Okay, good.

17 TERRY MCCLELLAN: Okay?

18 MICHELLE HART: And if you do see some more,

19 or just keep us updated, we would appreciate additional

20 samples --

21 TERRY MCCLELLAN: Now --

22 MICHELLE HART: -- as they come in.

23 TERRY MCCLELLAN: -- we sample as a 24 hour

24 frequency. Are you requesting us to update you every

25 24 hours or if we see a change?

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1 MICHELLE HART: I think we would like every  
2 24 hours. They're asking us if we're seeing anything.

3 TERRY MCCLELLAN: Okay, understand. Every  
4 24 hours you'd like an update on the iodine.

5 MICHELLE HART: Right. And we'll reassess  
6 as we go on if we need to stop having you send us stuff.

7 TERRY MCCLELLAN: Now, do you just want us  
8 to do the email and send it to you that way? Or would  
9 you want a phone call each time?

10 MICHELLE HART: A phone call would be sufficient,  
11 I think. I don't think that you'll have to send additional  
12 emails.

13 Although if you prefer to handle by email  
14 that is fine as well. But then you may prompt a call  
15 from us to wonder where it is.

16 TERRY MCCLELLAN: Okay, I understand. So  
17 we'll give you a phone call, and any follow-up data you  
18 need we can always email it.

19 MICHELLE HART: That would be great.

20 TERRY MCCLELLAN: Okay.

21 MICHELLE HART: Thank you very much.

22 TONY MCMURTRY: You're welcome.

23 MICHELLE HART: I think that's it for now.

24 TERRY MCCLELLAN: All right, thank you.

25 MICHELLE HART: Okay, thanks.

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TERRY MCCLELLAN: Bye-bye.

MICHELLE HART: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%J@Q{-\_04065094

3 NIMA ASHKEBOUSSI: Protective Measures  
4 Team.

5 MALE PARTICIPANT: I have Steve Homann for  
6 you.

7 NIMA ASHKEBOUSSI: Okay, thanks.

8 STEVE HOMANN: Hello.

9 NIMA ASHKEBOUSSI: Hi, Steve. This is Nima  
10 Ashkeboussi with the Protective Measures Team.

11 STEVE HOMANN: Excellent, thank you. I'm  
12 obviously over at NARAC. I just had a question on the  
13 spent fuel pool, iodine 131 source term for the Supercore.

14 NIMA ASHKEBOUSSI: Okay, can you hold on  
15 one --

16 STEVE HOMANN: Sure.

17 NIMA ASHKEBOUSSI: -- minute.

18 (Offline comments)

19 NIMA ASHKEBOUSSI: Steve?

20 STEVE HOMANN: Hi, yes, uh-huh.

21 NIMA ASHKEBOUSSI: I have you on speaker  
22 phone now.

23 STEVE HOMANN: Great.

24 NIMA ASHKEBOUSSI: Can you repeat your  
25 question?

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1 STEVE HOMANN: Sure. I was looking at the  
2 source term for the spent fuel pool for Supercore 2,  
3 for iodine 131, which in my table is 4.58 times ten to  
4 the sixth curies.

5 MALE PARTICIPANT: Okay.

6 STEVE HOMANN: Which is larger than the one  
7 for the actual reactor. And I just wanted to make sure  
8 that -- we were assuming, I thought, that there was one  
9 bundle in that, that was probably 35 days old by now.

10 And so that would have decayed to less than  
11 five percent. I just wanted to make sure the decay was  
12 included in that.

13 (Offline comments)

14 STEVE HOMANN: Yeah, one of them was 105  
15 days and one, I thought, was 30. At least that was my  
16 understanding and assumption.

17 MALE PARTICIPANT: What I have listed for  
18 Spent Fuel Pool 3, iodines of 1.3 times ten to the third.

19 STEVE HOMANN: Yeah, that seems reasonable.

20 MALE PARTICIPANT: What was the number that  
21 you had?

22 STEVE HOMANN: This has 4.58 times to the  
23 sixth, twice the amount that's coming from the operating,  
24 well, the reactor that was shut down.

25 And if I do 35 days that bundle would --

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1 and that's only one third of the core, right. And that  
2 would have gone down to less than five percent. And,  
3 of course, the 105 day one goes down by almost 10,000.

4 MALE PARTICIPANT: And where did your number  
5 come from?

6 STEVE HOMANN: It's from the RASCAL file  
7 they sent. Everything else checks out. For example,  
8 on the reactor Unit 2, I have 2.69 times ten to the sixth  
9 curies. Do you have that?

10 MALE PARTICIPANT: No.

11 STEVE HOMANN: Okay. John, where did this  
12 come from? Hold on, okay.

13 (Offline comments)

14 STEVE HOMANN: Okay. So just to confirm,  
15 your spent fuel pool, the total three and four, we have  
16 a summary of three and four. Our iodine 131 value is  
17 4.58 times to the sixth. And what is your sum value?

18 MALE PARTICIPANT: Just a second here. This  
19 will have the total listed. But I've got to add it  
20 manually.

21 STEVE HOMANN: Yeah, I'm doing a lot of that  
22 these days.

23 (Pause)

24 MALE PARTICIPANT: No, I've got 6.5, ten  
25 to the fifth, for Spent Fuel Pool 3 and 4. And I take,

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1 make certain, yeah. Do you know what the date on that

2 --

3 STEVE HOMANN: Oh, boy. This is just  
4 somebody's done this spreadsheet summary of the NRC.

5 You know what's really strange, iodine 132  
6 has the two hour half life. Well, that went down by  
7 three orders of magnitude. So that kind of looks correct.  
8 So they probably decayed it.

9 (Offline comments)

10 STEVE HOMANN: It seems like the iodine 132  
11 should have essentially gone away too.

12 MALE PARTICIPANT: Well, I've got --

13 STEVE HOMANN: Oh no, whatever, I don't know.  
14 So maybe this isn't decayed. I don't know.

15 MALE PARTICIPANT: The way RASCAL works is  
16 it does decay it.

17 STEVE HOMANN: Yeah. But look at iodine 132,  
18 they have 4,600 curies still in the spent fuel pool.  
19 And that's only got a two hour half-life.

20 MALE PARTICIPANT: Since this is one  
21 snapshot in time, I don't have any numbers that reflect  
22 how it's decaying.

23 STEVE HOMANN: Uh-huh.

24 MALE PARTICIPANT: I can get those numbers,  
25 but I don't have it in front of me. And I can only get

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1 those numbers on individual runs.

2 STEVE HOMANN: Okay. Well, okay. Well, let  
3 me check some more. But I thought you said you had  
4 something like ten to the third. Is that what you said,  
5 curies of iodine 131?

6 MALE PARTICIPANT: I have 1.3 times ten to  
7 the third of iodine --

8 STEVE HOMANN: One point three times ten  
9 to the third curies, Spent Fuel Pool 3 and 4?

10 MALE PARTICIPANT: That's in Spent Fuel Pool  
11 3.

12 STEVE HOMANN: Okay.

13 MALE PARTICIPANT: Spent Fuel Pool 4, I have  
14 6.5 times E to the fifth.

15 STEVE HOMANN: Okay, so that's the one that's  
16 30 days, must be.

17 MALE PARTICIPANT: But it's got more in it.  
18 There's more --

19 STEVE HOMANN: Well, my understanding it  
20 had a bundle, one bundle that was 30 days old. Because  
21 they do one third at a time. And so, okay, that could  
22 have started out higher up.

23 MALE PARTICIPANT: The note that I have on  
24 this is that it is ten batches total in Spent Fuel Pool  
25 4. There're three fresh batches and seven eighths --

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1 STEVE HOMANN: Oh, three fresh batches, okay.  
2 So now we're talking the whole core.

3 MALE PARTICIPANT: Right.

4 STEVE HOMANN: Okay.

5 MALE PARTICIPANT: Because they offloaded  
6 their core like 30 days ago when they started their  
7 maintenance outage.

8 And for whatever reason, they did it a third  
9 at a time. They did a whole offload of the information  
10 that we have, like Spent Pool Fuel 4 has been --

11 STEVE HOMANN: Okay. Well, we'll just go  
12 with that. Because it's a five percent thing. And these  
13 do add up to that number, the five, just barely.

14 (Offline comments)

15 STEVE HOMANN: Okay, well, appreciate it.  
16 Thank you.

17 MALE PARTICIPANT: Okay, before you go, do  
18 you an idea of how much longer it'll be before the seven  
19 term U.S./NARAC runs?

20 STEVE HOMANN: The seven term?

21 MALE PARTICIPANT: Yeah, the one that we  
22 wanted to do worst case towards the U.S.

23 STEVE HOMANN: Okay, let me see. Hold on.

24 (Offline comments)

25 STEVE HOMANN: Okay, that's still in

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1 progress, what, a few hours maybe.

2 (Offline comments)

3 STEVE HOMANN: It's running. I don't have  
4 the time on it for you, because we're trying to unravel  
5 this Supercore.

6 MALE PARTICIPANT: All right.

7 STEVE HOMANN: Okay, thank you much.

8 MALE PARTICIPANT: All right.

9 STEVE HOMANN: Okay.

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1 (CONFERENCE CALL INITIATED)

2 0%J80J9604065094

3 FEMALE PARTICIPANT: Protective Measures  
4 Team, this is a recorded line.

5 MALE PARTICIPANT: I have Mr. Summerville  
6 from Diablo Canyon on the line.

7 FEMALE PARTICIPANT: We've got another guy  
8 from Diablo on the other phone.

9 MALE PARTICIPANT: All right, well, here.  
10 You've got two of them now.

11 FEMALE PARTICIPANT: Fantastic. This is  
12 the Protective Measures Team.

13 MARK SUMMERVILLE: Hi, this is Mark  
14 Summerville. I'm actually calling from home but on behalf  
15 of Diablo Canyon.

16 FEMALE PARTICIPANT: We've got Diablo, we've  
17 got the Senior Resident from Diablo on the other line.

18 MARK SUMMERVILLE: Oh, you do?

19 FEMALE PARTICIPANT: Yes. And the phones  
20 are right next to each other too.

21 MARK SUMMERVILLE: Oh, cool.

22 FEMALE PARTICIPANT: So are you going to  
23 give us anything different than what he's giving us?

24 MARK SUMMERVILLE: Did he give you 1.04 times  
25 ten to the minus 12th?

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1 FEMALE PARTICIPANT: No. He gave us a ten  
2 to the minus 13th reading. So you've got 1.04 times  
3 ten to the minus 12th?

4 MARK SUMMERVILLE: That is correct. That  
5 is from --

6 FEMALE PARTICIPANT: Microcuries?

7 MARK SUMMERVILLE: Microcuries per CFE  
8 (phonetic).

9 FEMALE PARTICIPANT: Per CFE.

10 MARK SUMMERVILLE: Iodine 131.

11 FEMALE PARTICIPANT: All right. What are  
12 you guys doing with that information?

13 MARK SUMMERVILLE: Right now, we're not  
14 doing a whole lot with it. We're forwarding it to the  
15 INPO. They have a command center set up.

16 FEMALE PARTICIPANT: Uh-huh, okay.

17 MARK SUMMERVILLE: And we're forwarding it  
18 to our, I'm with the Rad protection group. I'm the  
19 radiation protection manager. But we're forwarding it  
20 to our emergency planning group.

21 FEMALE PARTICIPANT: Okay, wait. So you're  
22 the licensee or you're the -- are you the NRC employee  
23 or the licensee?

24 MARK SUMMERVILLE: No, the licensee.

25 FEMALE PARTICIPANT: Okay, thanks. All

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1 right, very good. All right, so I don't think we need  
2 anything right now --

3 MARK SUMMERVILLE: Okay.

4 FEMALE PARTICIPANT: --beyond what you did.

5 And I appreciate it very much.

6 MARK SUMMERVILLE: Oh, you're welcome.

7 We're also seeing it in our rain water too.

8 FEMALE PARTICIPANT: Seeing it in your rain  
9 water.

10 MARK SUMMERVILLE: Yes, just for your  
11 background.

12 FEMALE PARTICIPANT: All right.  
13 Fantastic.

14 MARK SUMMERVILLE: All right?

15 FEMALE PARTICIPANT: Thank you very much.

16 MARK SUMMERVILLE: All right. You bet.

17 FEMALE PARTICIPANT: Take care, bye.

18 MARK SUMMERVILLE: Okay, bye.  
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1 (CONFERENCE CALL INITIATED)

2 0%JBA@@\_04065094

3 KATHY: Protective Measures Team.

4 MALE PARTICIPANT: Transferring Trish  
5 Milligan.

6 KATHY: Thank you. Hey, Trish.

7 TRISH MILLIGAN: Hey, Kathy. What's up?

8 KATHY: Well, we're struggling quite a bit.  
9 And I'm hoping to use your brain.

10 TRISH MILLIGAN: Oh-oh, I don't have one.

11 KATHY: I'm going to put you on speaker,  
12 okay.

13 TRISH MILLIGAN: Okay. What are you  
14 struggling with?

15 KATHY: With what you left us with when you  
16 got here, which was that the AMS data --

17 TRISH MILLIGAN: Yeah.

18 KATHY: -- correlates well with Supercore.

19 TRISH MILLIGAN: Yeah, okay.

20 KATHY: Okay. And so what we're tasked with  
21 doing is figuring out do we need to change protective  
22 action recommendations.

23 TRISH MILLIGAN: No, no, no, not at all.

24 KATHY: Okay.

25 TRISH MILLIGAN: Not based on anything I

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1 said (phonetic). What I thought was cool was the AMS  
2 data sort of supported Supercore in terms of doses beyond  
3 --

4 KATHY: Let me put you on speaker so that  
5 Eric can hear too.

6 TRISH MILLIGAN: Okay.

7 ERIC: Hey, Trish.

8 TRISH MILLIGAN: Hey, Eric. How are you?

9 ERIC: I am befuddled.

10 TRISH MILLIGAN: Yeah, evacuate him out to  
11 100 miles, what the hell.

12 ERIC: (b)(5)

13 (b)(5)  
14 (b)(5)

15 TRISH MILLIGAN: (b)(5)

16 KATHY: (b)(5)

17 (b)(5)

18 TRISH MILLIGAN: (b)(5)  
19 KATHY: Yeah.

20 ERIC: Yeah.

21 TRISH MILLIGAN: (b)(5)

22 (b)(5)

23 KATHY: (b)(5)

24 (b)(5)  
25 (b)(5)

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1 TRISH MILLIGAN: Oh, very cool,

(b)(5)

2 (b)(5)

3 ERIC: Yeah.

4 KATHY: Yeah.

5 TRISH MILLIGAN: Oh, man.

6 KATHY: That's what we're struggling with.

7 TRISH MILLIGAN: Oh, shit?

8 KATHY: We thought of this. And what do we  
9 believe?

10 TRISH MILLIGAN: Okay, here's what we  
11 believe. If you look at the AMS aerial monitoring data,  
12 pull that pretty little thing up, right, with the little  
13 colors and stuff on it.

14 KATHY: Yeah. We've got it memorized.

15 TRISH MILLIGAN: Okay. Yeah, right. I  
16 probably can even dream about it now. And if you look  
17 in the, that would be the --

18 KATHY: West.

19 TRISH MILLIGAN: Northwest direction.

20 KATHY: Right.

21 TRISH MILLIGAN: Where the plume goes. And  
22 it was there for about, I think the wind was --

23 KATHY: Twelve hours.

24 TRISH MILLIGAN: Twelve to 14 hours,  
25 somewhere, blowing in that direction. If you look at

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1 the ground deposition, which is all AMS ever measures,  
2 right, because they never fly through a plume, you see  
3 somewhere between 20 to 40 MR per hour.

4 KATHY: Yes.

5 TRISH MILLIGAN: We made the assumption,  
6 oh, we'll call it 30, right. Because we'll split it  
7 in the middle. So if you look at 30 MR per hour and  
8 you did the four day heading that we do, the four day  
9 dose, you would see that we're at, what, 100 hours times,  
10 say, 30 is 3R.

11 And we said, lo and behold, isn't that  
12 interesting. We actually have some kind of data that  
13 suggests that the powers were not overly conservative.

14 Now, if you were to assume that continued  
15 out, you would expect to see falling deposition as you  
16 go further out. And AMS did not measure -- well, you  
17 can see how far out it went -- and did not measure it  
18 beyond that.

19 We felt fairly comfortable that there was  
20 good correlation, although we believe that we were overly  
21 conservative by a little bit. But we felt very comfortable  
22 that the data that we saw from AMS did in fact support  
23 enhanced PAGs that we came up with.

24 KATHY: Okay, that's fine. But here's the  
25 question. So then you guys went back with the AMS data

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1 and tweaked RASCAL so that you came up with a source  
2 term --

3 TRISH MILLIGAN: Right.

4 KATHY: -- that supported it. That source  
5 term looks an awful lot like the source term we provided  
6 to NARAC --

7 TRISH MILLIGAN: Yeah.

8 KATHY: -- the Supercore source term, which  
9 then they used to develop this report that goes out to  
10 Tokyo, right.

11 TRISH MILLIGAN: Yeah.

12 KATHY: (b)(5)

13 (b)(5)  
14

15 TRISH MILLIGAN: No, we don't. No, I can't  
16 believe it.

17 KATHY: All right. So that's --

18 TRISH MILLIGAN: (b)(5)

19 (b)(5)  
20

21 KATHY: (b)(5)

22 TRISH MILLIGAN: (b)(5)

23 (b)(5)  
24  
25

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(b)(5)

KATHY: Oh.

MIKE SCHMIDT: (b)(5)

(b)(5)

--

TRISH MILLIGAN: I'm sorry, I can't hear you.

MIKE SCHMIDT: Sorry. (b)(5)

(b)(5)

KATHY: We understood that they used Supercore for Tokyo. Can we confirm that?

TRISH MILLIGAN: Yeah. Because when I left they had not yet run a Supercore. And they were still planning on running the worst case scenario.

MIKE SCHMIDT: Right. And if what we've got in our hands right now is the Supercore towards Tokyo --

TRISH MILLIGAN: Okay.

MIKE SCHMIDT: (b)(5)

(b)(5)

KATHY: Which shows alignment with the source

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1 term that you guys developed backing off from the AMS  
2 data.

3 MIKE SCHMIDT: So here's my thought process.

4 And please poke a hole in it.

5 TRISH MILLIGAN: Yeah, yeah, I will.

6 MIKE SCHMIDT: What we're used to seeing  
7 and what we're used to dealing with is a very immature  
8 plume, a plume that pops up off of freshly damaged fuel.

9 And it plugs and it's over with my lunch  
10 time. So that plume comes out. It has a whole lot of  
11 short-lived isotopes in it. And it falls off very quickly.

12 TRISH MILLIGAN: Yes.

13 MIKE SCHMIDT: We are not there now. We're  
14 at, I don't know if it's the right term or not, we have  
15 a mature plume now. It is full of long-lived isotopes  
16 because the fission (phonetic) is -- we shut down over  
17 a week ago.

18 TRISH MILLIGAN: Right.

19 KATHY: Not only that, we're concerned about  
20 the spent fuel pools, not necessarily the (indiscernible).

21 MIKE SCHMIDT: And that's also adding to  
22 the longer-lived isotope plume.

23 TRISH MILLIGAN: Right.

24 MIKE SCHMIDT: Still getting the same  
25 concentrations out of it that we might have seen before

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1 lunch time, immature plume.

2 But that is still continuing to come off.

3 So that longer-lived is sticking together and drifting  
4 as far as the wind takes it.

5 TRISH MILLIGAN: Yeah.

6 MIKE SCHMIDT: (b)(5)

7 (b)(5)

8  
9  
10 TRISH MILLIGAN: (b)(5)

11 (b)(5)

12 MIKE SCHMIDT: It says greater than one rem.

13 KATHY: It's greater than one rem.

14 MIKE SCHMIDT: TEDE.

15 KATHY: TEDE. And then -- (indiscernible)  
16 was about the same distance. Where was that one? Anyway,  
17 it was about the same distance.

18 TRISH MILLIGAN: No shit?

19 KATHY: Yeah.

20 TRISH MILLIGAN: I guess we weren't so  
21 creative at all. That's what happens when you work back  
22 shift. You think you get these brilliant ideas. (b)(5)

23 (b)(5)

24 KATHY: Yeah.

25 MIKE SCHMIDT: It was a brilliant idea.

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1 KATHY: The next thing you know you get what  
2 you asked for.

3 TRISH MILLIGAN: Yeah. That's not what we  
4 had intended at all. We thought what we were trying  
5 to do, which probably didn't work out, is to simply say  
6 since we saw this -- anyway, we did that little plot,  
7 right, that kind of cool little histogram plot that we  
8 laid on top of that Google Earth map that showed when  
9 we made those protective action recommendations we were  
10 supported by -- it was not an overly conservative  
11 recommendation.

12 (b)(5)

13  
14  
15 KATHY: It doesn't matter. I don't know  
16 which way it's blowing. Oh, what does that say, south?  
17 Is that up to date?

18 ERIC: I don't know how current that is.

19 MALE PARTICIPANT: Current.

20 TRISH MILLIGAN: Do you have any --

21 KATHY: We're trying to do, like, the towards  
22 Tokyo thing. Because we're starting to get a lot of  
23 questions from Air Force bases.

24 TRISH MILLIGAN: No shit. Yeah, do you have  
25 any AMS data from the 6 o'clock --

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1 KATHY: Nope.

2 TRISH MILLIGAN: No.

3 KATHY: The 6 o'clock Sitrep said that  
4 they're working on it and they'll update it.

5 ERIC: Really in uncharted territory here.

6 TRISH MILLIGAN: Totally.

7 ERIC: I've never been party to a  
8 conversation that said just --

9 KATHY: I know.

10 ERIC: -- a release that went on for over  
11 a week. All the releases always were short term. We  
12 got cooling back. We got a cork in the hole. And the  
13 release was done.

14 TRISH MILLIGAN: Well, part of the flaw --  
15 and you're right, Eric -- is that for all practical purposes  
16 there is likely some kind of something happening in terms  
17 of some kind of leak right now.

18 But you're right, we don't have a full bore,  
19 full speed ahead release going on. The worst is over.

20 KATHY: Right.

21 TRISH MILLIGAN: The Supercore was our worst  
22 -- and I think what we were trying to show was that,  
23 in fact I know what we were trying to show, is that this  
24 was our worst scenario. It's over. Because we don't  
25 have any releases.

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1 And we don't have any reason to think that,  
2 you're right, there's nothing left to push a release  
3 to do this, to behave this way.

4 KATHY: Right. But what I'm hung up on --

5 TRISH MILLIGAN: But what you're hung up  
6 on is that, based on the projection --

7 ERIC: Right.

8 TRISH MILLIGAN: -- why aren't they seeing  
9 it out there.

10 ERIC: No, I think what you just said was  
11 key. It's over.

12 TRISH MILLIGAN: It's over.

13 ERIC: It's gone. This is --

14 KATHY: But it's not gone. Because what  
15 we're saying now is that Unit 2, sorry, Unit 3 and Unit  
16 4 spent fuel pools is what should encompass our source  
17 term, right?

18 ERIC: But that's different than what that  
19 is --

20 KATHY: How is that different? Because this  
21 is for Unit 3, Unit 4. If somebody can explain that  
22 to me, that would be fantastic.

23 And what I'm pointing at, Trish, (b)(5)

24 (b)(5)

25

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1 (b)(5)  
2  
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6 --

7 TRISH MILLIGAN: But that's assuming that  
8 you're going to have some kind of, that's assuming you'll  
9 have fire and something that's really driving the release  
10 from the spent fuel pools, which I don't think we have.

11 KATHY: Is it though?

12 TRISH MILLIGAN: Well --

13 KATHY: I don't know what we told them to  
14 do. Because I was just asking that question. So what,  
15 so the pools are uncovered. They're just sitting there,  
16 right.

17 TRISH MILLIGAN: Well, they're being  
18 covered.

19 KATHY: Huh?

20 TRISH MILLIGAN: They're being covered.

21 KATHY: Right.

22 TRISH MILLIGAN: Yeah.

23 KATHY: So that could cause some disruption  
24 in air flow or whatever.

25 ERIC: No. If they're being covered that

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1 would stop the release.

2 TRISH MILLIGAN: Yeah. We don't have a  
3 release. That was our worst case. We modeled it and  
4 we showed that Supercore was our worst release. It's  
5 over, unless --

6 KATHY: It got there today, but so what can  
7 we model on RASCAL to say here's what we have now? If  
8 we still know that Unit 3 and 4 spent fuel pools are  
9 uncovered, we were talking about running RASCAL so that  
10 we have a different release fraction, a lower release  
11 fraction, right?

12 TRISH MILLIGAN: Yeah.

13 KATHY: Because I have to be able to show  
14 why we're getting away from this, you know what I mean?

15 Oh, and shit, I've got to get on a telephone  
16 call. Right, Eric's here.

17 TRISH MILLIGAN: Okay.

18 (Offline comments)

19 KATHY: Sorry, Trish.

20 TRISH MILLIGAN: Oh, no problem.

21 ERIC: Unfortunately, yes. RASCAL doesn't  
22 assume a fire.

23 TRISH MILLIGAN: No.

24 ERIC: RASCAL assumes core damage --

25 TRISH MILLIGAN: Right.

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1 ERIC: A gap release.

2 TRISH MILLIGAN: Well, when RASCAL models  
3 a spent fuel pool it models it to be a release over a  
4 period of time --

5 ERIC: Right.

6 TRISH MILLIGAN: -- for days. Because a  
7 spent fuel pool is not an energetic release in the same  
8 way that a reactor accident is.

9 ERIC: Right.

10 TRISH MILLIGAN: But it's hard to believe,  
11 it's hard to believe that a spent fuel pool --

12 ERIC: Or two.

13 TRISH MILLIGAN: (b)(5)

14 (b)(5)  
15

16 ERIC: All I have are these nice pretty  
17 pictures.

18 TRISH MILLIGAN: Oh, you don't have any  
19 numbers, or what their inputs were or anything?

20 ERIC: No.

21 TRISH MILLIGAN: Shit.

22 ERIC: Well, it says, I have comments. Doses  
23 are accrued from this date to this date, hypothetical  
24 releases (b) (b)(5)  
(5)

25 (b)(5)

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TRISH MILLIGAN: Hello?

ERIC: Yeah, I'm still here. I'm trying to decipher this. It's not even telling me what the curies are. It's just saying curies starting at, starting at, starting at, starting at, not telling me what it is.

TRISH MILLIGAN: What it is, right. Okay.

ERIC: It's not telling me that it's iodine. It's not telling me that it's cesium.

(b)(5)

TRISHMILLIGAN: (b)(5)

(b)(5)

ERIC: Yeah, but I --

TRISH MILLIGAN: That defies anything that we can think of from behavior as well.

ERIC: Well, that part of it we can poke a hole in. Because what they did was they found a four hour window of real wind conditions that were going the direction they wanted to go. And they just kept re-running that four hour loop.

TRISHMILLIGAN: So they made it a persistent

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1 unchanging wind.

2 ERIC: Correct.

3 TRISH MILLIGAN: Yeah.

4 ERIC: So that's not realistic.

5 TRISH MILLIGAN: No. And what they're  
6 proposing doesn't make any sense.

7 ERIC: But even if you say that part, because  
8 wind conditions can really make a huge difference in  
9 how far out it goes.

10 TRISHMILLIGAN: Well, sure. (b)(5)

11 (b)(5)

12 ERIC: Yeah. I don't know.

13 TRISHMILLIGAN: (b)(5)

14 (b)(5)

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(b)(5)

ERIC: I just --

TRISH MILLIGAN: (b)(5)

(b)(5)

ERIC: (b)(5)

(b)(5)

TRISH MILLIGAN: (b)(5)

(b)(5)

ERIC: They've sent them to us.

TRISH MILLIGAN: Okay.

ERIC: Well, it's on their Web site. So anybody they can get to their Web site can see these numbers.

TRISH MILLIGAN: It's on their Web site?

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1 They can't be publicly available.

2 ERIC: Well, it says for official use only.

3 So it must be on a password protected part of their  
4 Web site.

5 TRISHMILLIGAN:

(b)(5)

6 (b)(5)

7  
8  
9 ERIC: Yeah.

10 TRISH MILLIGAN:

(b)(5)

11 (b)(5)

12  
13  
14  
15 ERIC: Well, let's talk about RASCAL for  
16 just a second. Maximum doses based on this RASCAL run  
17 that we used more or less correlate the Supercore to  
18 the AMS data.

19 TRISH MILLIGAN: Yeah.

20 ERIC: At 15 miles, total dose is 1.4 rems.

21 TRISH MILLIGAN: Right.

22 ERIC: At 20 miles it's 1.3.

23 TRISH MILLIGAN: Right.

24 ERIC: At 30 miles it's 7.6. He uses a minus  
25 one.

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1 TRISH MILLIGAN: Yeah.

2 ERIC: So it's falling off very, very slowly.

3 So I don't know. I'm not even --

4 TRISH MILLIGAN: What, I'm sorry. I missed  
5 that.

6 ERIC: We've got ten for iodine, ten rems  
7 at 50 miles. So if it's falling off that (indiscernible)  
8 in the iodine, constant at 30, 40 and 50, that's for  
9 the RASCAL run.

10 Can we correlate from that, that it's just  
11 not decaying off the way we would have expected it?  
12 If there's not much change between the 20 miles, between  
13 30 and 50, how much change is there going to be between  
14 50 and 150?

15 TRISH MILLIGAN: That's a huge distance,  
16 though, 50 and 150.

17 ERIC: Well, for 35 miles it hasn't gone  
18 down much. It's gone from 19 to ten. I don't know. I'm  
19 thinking out loud trying to put some better terminology  
20 to it doesn't smell right. Please run it again.

21 TRISH MILLIGAN: Yeah. Well, first of all,  
22 there shouldn't be the persistent meteorology that way,  
23 because then you're making an overly conservative  
24 protective action recommendation.

25 We've made a very conservative one as it

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1 is. And now you're taking that level that's conservative  
2 into a new high.

3 ERIC: Well, we're expanding on it.

4 TRISH MILLIGAN: Well, that's one way to  
5 put it. Yeah, (b)(5)

6 (b)(5)  
7  
8

9 ERIC: No. I just talked to them.

10 TRISH MILLIGAN: (b)(5)

11 (b)(5)  
12  
13  
14  
15

16 ERIC: Okay.

17 TRISH MILLIGAN: (b)(5)

18 (b)(5)  
19

20 ERIC: Do we know where that's at?

21 TRISH MILLIGAN: Where what's at?

22 ERIC: (b)(5)

23 TRISH MILLIGAN: (b)(5)

24 (b)(5)  
25

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1 ERIC: We should have record of it in an  
2 email somewhere, correct?

3 TRISH MILLIGAN: Yeah. Look around, let's  
4 see, 10:50 to NARAC from pmt12. That's the one where,  
5 pmt12, I think, is where we sent it from. And it was  
6 somewhere around 11 o'clock. And it will say forward,  
7 urgent. We sent it off to --

8 ERIC: Got it.

9 TRISH MILLIGAN: Yeah, yeah, there, right  
10 there. That's what we sent them. And that's what I'm  
11 afraid they used. And that is a much more conservative  
12 source term.

13 And given the back and forth we've had with  
14 them regarding source terms, it's not unreasonable for  
15 me to think that that's what they've used. And if that's  
16 what they've used, then we could easily have a factor  
17 of 1,000 or so (indiscernible) greater.

18 You need to call them and find out what the  
19 heck source term they used. Because --

20 ERIC: Right. Because I just talked to them  
21 a little while ago.

22 TRISH MILLIGAN: Yeah.

23 ERIC: (b)(5)

24 (b)(5)

25

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1 TRISH MILLIGAN: Uh-huh.

(b)(5)

2 (b)(5)

3 ERIC: All right.

4 TRISH MILLIGAN: (b)(5)

5 (b)(5)

6 ERIC: All right.

7 TRISH MILLIGAN: So I think that --

8 ERIC: All right.

9 TRISH MILLIGAN: (b)(5)

10 (b)(5)

11 ERIC: All right.

12 TRISH MILLIGAN: (b)(5)

13 (b)(5)

14 ERIC: Yeah.

15 TRISH MILLIGAN: (b)(5)

16 (b)(5)

17 Because we had a lot of discussion about

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25

1 the appropriate source term to use for a spent fuel pool.

2 And RASCAL, the source term that we had wasn't really  
3 adequate for a spent fuel pool.

4 And there was some discussion that actually  
5 what works better is the Origin code for spent fuel pools.

6 (b)(5)

7 (b)(5)  
8  
9

10 ERIC: All right.

11 TRISH MILLIGAN: I keep waiting for Mark

12 (phonetic) (b)(5)  
13 (b)(5)

14 And you would think if that was the case,  
15 yeah, call them back and ask them what source term they  
16 used and if they've used the files that we sent last  
17 night.

18 And if they did, then we need to rerun it  
19 with the Supercore source term. Because I think, given  
20 my conversations with them last night -- and we had several  
21 calls with them last night and again this morning or

22 during the night (b)(5)

23 (b)(5)

24 So call them back and find out exactly what  
25 source term they've used. (b)(5)

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1 (b)(5)

2 ERIC: All right.

3 TRISH MILLIGAN: And make them rerun it.

4 Maybe what we need to do is sit down and send them the  
5 file that we want them to use again. (b)(5)

6 (b)(5)  
7

8 ERIC: Yeah, we can't --

9 TRISH MILLIGAN: So that's my only thought,

10 (b)(5)  
11

12 ERIC: All right.

13 TRISH MILLIGAN: (b)(5)

14 (b)(5)  
15  
16  
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22

23 TRISH MILLIGAN: We didn't see it like that  
24 at Chernobyl. And I don't know why we would expect to  
25 see --

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1 JOHN LUBINSKI: Is this Trish?

2 TRISH MILLIGAN: Yeah.

3 JOHN LUBINSKI: Hey, John Lubinski joining  
4 the conversation.

5 TRISH MILLIGAN: Hey, John. How are you?

6 JOHN LUBINSKI: Let you know I'm here. Good,  
7 thanks. Keep talking.

8 TRISH MILLIGAN: (b)(5)

9 (b)(5)

10

11

12

JOHN LUBINSKI: Hey, let me add to the  
13 conversation here.

14

TRISH MILLIGAN: Yeah.

15

JOHN LUBINSKI: I just got out of the ET  
16 briefing.

17

TRISH MILLIGAN: Uh-huh.

18

JOHN LUBINSKI: And what I told Jim our  
19 priority should be at this point, and he aligned with  
20 it, the last two days we've been talking some variation  
21 of worst case scenarios --

22

TRISH MILLIGAN: Right.

23

JOHN LUBINSKI: -- putting stuff together.

24

And what I told Jim is our focus right now is the PMT  
25 needs to get back on what's the realistic source term.

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1                   And so RST said as of today they were looking  
2 at what the source term would be. They're looking at  
3 the two spent fuel pools, Unit 3 and Unit 4.

4                   TRISH MILLIGAN: Right.

5                   JOHN LUBINSKI: And they've come up with  
6 what they would consider fuel damage goes to right now,  
7 based on current conditions.

8                   TRISH MILLIGAN: Okay.

9                   JOHN LUBINSKI: And they're looking at five  
10 percent fuel damage to Spent Fuel Pool 3 --

11                   TRISH MILLIGAN: Okay.

12                   JOHN LUBINSKI: -- and 30 percent fuel damage  
13 in Unit 4.

14                   TRISH MILLIGAN: Okay.

15                   JOHN LUBINSKI: And again, we've got data  
16 on what's in those pools and how much we would do with  
17 that.

18                   So what I'm getting ready to do is direct  
19 the team. And I assume these guys will just ask you  
20 for background on what you did earlier.

21                   TRISH MILLIGAN: Yeah, what went wrong or  
22 what we saw happen. And what I think has happened is  
23 I think they've used the wrong source term.

24                   JOHN LUBINSKI: Yeah. We're trying to back  
25 the source term based on field data measurements. And

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1 like I heard you say, I think, what we're struggling  
2 with is somebody along the line said, hey, this data  
3 tells us that what was put into Supercore is about what  
4 the source term is at the site.

5 (b)(5)  
6  
7  
8 (b)(5)

TRISH MILLIGAN:

9 (b)(5)  
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24 JOHN LUBINSKI: Yeah. So what we're doing  
25 now is I'm going to put you on the team to do a run on

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1 this number. This is what we got from the reactor safety  
2 team.

3 So our priority right now is going to be  
4 to do a RASCAL run on these numbers. And I'm telling  
5 Eric this. Because I'm going to walk over now with the  
6 dose guys over there in RASCAL and get them started on  
7 this.

8 TRISH MILLIGAN: Yeah. And see what comes  
9 out. And see where we go on that. Now, RASCAL does,  
10 I believe, do a slow release over a long period of time  
11 from the spent fuel pools.

12 JOHN LUBINSKI: Okay.

13 TRISH MILLIGAN: Because it's not --

14 JOHN LUBINSKI: (Indiscernible) I'm getting  
15 the source term. Sorry to interrupt, but these guys  
16 keep talking here. So I'm going to give this to them.

17 TRISH MILLIGAN: Yeah. So, Eric, see what  
18 happens with that. (b)(5)

19 (b)(5)

20 ERIC: All right, but I've got to --

21 TRISH MILLIGAN: (b)(5)

22 (b)(5)

23 ERIC: All right.

24 TRISH MILLIGAN: Okay?

25 ERIC: Okay.

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1 TRISH MILLIGAN: And call me if --

2 ERIC: Try not to.

3 TRISH MILLIGAN: No, that's quite all right.

4 (b)(5)

5 (b)(5)  
6  
7  
8  
9

10 ERIC: I certainly hope so.

11 TRISH MILLIGAN: It's not going to go the  
12 other way.

13 ERIC: All right.

14 TRISH MILLIGAN: (b)(5)

15 (b)(5)  
16

17 ERIC: (b)(5)

18 (b)(5)

19 TRISH MILLIGAN: Well, yeah. (b)(5)

20 (b)(5)  
21  
22  
23  
24

25 ERIC: Yeah.

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1 TRISH MILLIGAN: So call me when you hear  
2 something else. So I'll be really interested to know  
3 what's going on.

4 ERIC: All right.

5 TRISH MILLIGAN: Okay?

6 ERIC: Thanks.

7 TRISH MILLIGAN: Thanks, bye.  
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1 (CONFERENCE CALL INITIATED)

2 0%JDO)-\_04065094

3 (b)(6) NSS, this is (b)(6)

4 NIMA ASHKEBOUSSI: Hi, (b)(6) This is Nima

5 Ashkeboussi with the Nuclear Regulatory Commission.

6 This is a recorded line.

7 (b)(6) Sure, how you doing?

8 NIMA ASHKEBOUSSI: Hey, pretty good. We  
9 have your email about the plume meeting tomorrow.

10 (b)(6) Yes, yes.

11 NIMA ASHKEBOUSSI: We're not sure who from  
12 our team might be attending that meeting, but we want  
13 to attend.

14 (b)(6) Okay, great.

15 NIMA ASHKEBOUSSI: Do you have the call in  
16 information for that?

17 (b)(6) It's not a call. It's a going to be  
18 in person.

19 NIMA ASHKEBOUSSI: Oh, in person.

20 (b)(6) Yeah. I hope I noted that in the email.  
21 Did I send that out?

22 NIMA ASHKEBOUSSI: Oh, in the situation room.

23 (b)(6) Yeah.

24 NIMA ASHKEBOUSSI: Ah, okay, okay.

25 (b)(6) So it's not urgent, urgent, urgent.

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1 But we need to know by, like, 5:00 or 6:00 p.m. so I  
2 can do the clearance stuff and --

3 NIMA ASHKEBOUSSI: Okay. We'll get to you  
4 by 5:00 to let you know.

5 (b)(6) Great, no rush at all. That's  
6 awesome.

7 NIMA ASHKEBOUSSI: Yeah, I missed that.

8 (b)(6) No, it's all good. Somebody that is  
9 familiar with the source terms that you guys have been  
10 passing to DOE for their model would be who we're looking  
11 for, somebody somewhat senior but still in the subject  
12 matter expert realm is probably just the sweet spot of  
13 what we're looking for.

14 NIMA ASHKEBOUSSI: Yeah. Part of the  
15 problem is that tomorrow morning we have a commission  
16 meeting.

17 (b)(6) Oh.

18 NIMA ASHKEBOUSSI: And one of our source  
19 term experts is going to be at that meeting. But we  
20 have probably other people that we can get. But we're  
21 splitting our resources, I guess, that day.

22 (b)(6) Understood. And you guys are not  
23 quite as scalable as like DoD that has 30 people doing  
24 every job.

25 NIMA ASHKEBOUSSI: Right, right. Okay.

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1 Well, we'll get back to you, Zack.

2 (b)(6) Sounds good, thanks.

3 NIMA ASHKEBOUSSI: Okay, thanks a lot, bye.

4

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1 (CONFERENCE CALL INITIATED)

2 0%JE!\_9\_04065094

3 MALE PARTICIPANT: NRC Protective Measures  
4 Team.

5 MALE PARTICIPANT: I have Mr. Homann for  
6 you.

7 MALE PARTICIPANT: Okay, thank you.

8 MALE PARTICIPANT: Hi, is this the Protective  
9 Measures Team?

10 MALE PARTICIPANT: Yes, it is.

11 FEMALE PARTICIPANT: I have Steve Homann  
12 on the line. Just one minute.

13 MALE PARTICIPANT: Okay, thank you.

14 FEMALE PARTICIPANT: Thank you.

15 MALE PARTICIPANT: This is the Protective  
16 Measures Team. Protective Measures Team. Hello?

17 STEVE HOMANN: This is Steve.

18 MALE PARTICIPANT: Hi, Steve, this is  
19 Protective Measures Team.

20 STEVE HOMANN: Hi. I'm just being the relay  
21 person. But Jerry Idmunit (phonetic) wanted me to ask  
22 you for the original Supercore inventory, the original.

23 Does that mean something to you? I know  
24 what the Supercore is, and it means something to me,  
25 but I --

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1 MALE PARTICIPANT: Yeah, it means something  
2 to me. But the original inventory, let me get somebody  
3 else on the phone.

4 STEVE HOMANN: Okay.

5 MALE PARTICIPANT: Okay. Hold on please.

6 STEVE HOMANN: Uh-huh.

7 (Pause)

8 MALE PARTICIPANT: Hi, Steve. You're on the  
9 speaker phone.

10 STEVE HOMANN: Hi, hello.

11 STEVE LAVIE: Yes, this is Steve Lavie and  
12 Eric Schrader.

13 STEVE HOMANN: Hi. I have just been asked  
14 by Jerry Idminit to obtain the original Supercore  
15 inventory.

16 STEVE LAVIE: Okay. Can I email it to you?

17 STEVE HOMANN: And I guess you could just,  
18 what, email that to NARAC, or however you want to do  
19 that.

20 STEVE LAVIE: I think we've got it.

21 (Offline comments)

22 STEVE LAVIE: Okay, let me just confirm  
23 narac@llnl.gov (phonetic)?

24 STEVE HOMANN: That's affirmative.

25 STEVE LAVIE: Okay.

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STEVE HOMANN: Okay, thanks a lot.

STEVE LAVIE: Thank you.

STEVE HOMANN: Uh-huh.

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1 (CONFERENCE CALL INITIATED)

2 0%JJPC5604065094

3 TIM HARRIS: PMT, Tim Harris speaking.

4 MALE PARTICIPANT: All right, I've got a  
5 call for you, hang on.

6 TIM HARRIS: Hello.

7 JOHN NAASTROM: Hi, this is John Naastrom  
8 from NARAC.

9 TIM HARRIS: Hey, John. How are you?

10 JOHN NAASTROM: Good. Is this Steve?

11 TIM HARRIS: No. This is Tim Harris. Steve  
12 is over, I think, in an Ad Hoc meeting.

13 JOHN NAASTROM: Oh, okay. Yeah, we had  
14 passed on a request through Steve --

15 TIM HARRIS: Right, to get the source term  
16 inventory?

17 JOHN NAASTROM: Yeah.

18 TIM HARRIS: Yeah, that's what they're  
19 meeting on right now.

20 JOHN NAASTROM: Oh, they are? Okay, good.

21 TIM HARRIS: Yeah, I think it's probably  
22 the highest priority.

23 JOHN NAASTROM: Okay, good. All right. So  
24 you guys have the email addresses to send that info on  
25 --

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1 TIM HARRIS: Yeah, you sent us an email --

2 JOHN NAASTROM: Yeah, nitops@nsa.doe.gov?

3 TIM HARRIS: Yeah, so we --

4 JOHN NAASTROM: That's NARAC.

5 TIM HARRIS: Yep.

6 JOHN NAASTROM: Great.

7 TIM HARRIS: Yeah, so we got your email and  
8 we'll reply.

9 JOHN NAASTROM: Great. All right, thanks  
10 a lot.

11 TIM HARRIS: Okay, thanks, John.

12 JOHN NAASTROM: Talk to you later.

13 TIM HARRIS: Bye.

14 JOHN NAASTROM: Bye.

15

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1 (CONFERENCE CALL INITIATED)

2 0%JL60L\_04065094

3 TIM HARRIS: PMT, Harris.

4 MALE PARTICIPANT: Hi. I have Mr. Young from  
5 DOE for you .

6 TIM HARRIS: Mr. Young, how are you?

7 MR. YOUNG: Hi, who am I speaking with?

8 TIM HARRIS: Tim Harris.

9 MR. YOUNG: Hi, Tim. Hey, I just sent over  
10 an email to the PMT, to three different PMT email addresses.  
11 I was wondering if you got it. It referenced a conference  
12 call?

13 TIM HARRIS: Actually we were, hmm, which  
14 PMT did you send it to?

15 MR. YOUNG: I believe to 12 --

16 TIM HARRIS: Yeah, that's me.

17 MR. YOUNG: One and two. It came from NITOPS.

18 TIM HARRIS: Okay, I got it.

19 MR. YOUNG: Okay.

20 TIM HARRIS: You're invited for a conference  
21 call to discuss new plume occurring at 7:30. Okay.

22 MR. YOUNG: We plan to send out some read  
23 aheads before then. I just want to make sure we got  
24 everyone, make sure people are available at that time.

25 TIM HARRIS: Yeah, I think so. Hold on a

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1 second.

2 Hey, Don, a conference call, interagency,  
3 to talk about the new plume data products, 7:30. Yes?

4 DON: Okay.

5 TIM HARRIS: Yes, thank you.

6 MR. YOUNG: Okay, great. Thank you very  
7 much.

8 TIM HARRIS: Okay, talk to you. So you'll  
9 send pre-brief stuff and then we'll call in?

10 MR. YOUNG: Yep.

11 TIM HARRIS: All right, perfect.

12 MR. YOUNG: We will.

13 TIM HARRIS: Thanks,

14 MR. YOUNG: Okay.

15 TIM HARRIS: Bye.

16 MR. YOUNG: All rightie, bye.

17

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1 (CONFERENCE CALL INITIATED)

2 0%JM-J\$604065094

3 JAY PATEL: NRC, this is the PMT. This is  
4 a recorded line.

5 MALE PARTICIPANT: Transferring San Onofre  
6 individual.

7 JAY PATEL: Sure. Hello?

8 MIKE MCBREARTY: Hi, this is Mike McBrearty  
9 from the San Onofre Nuclear Generating Station.

10 JAY PATEL: Yes, this is Jay Patel from the  
11 PMT Team.

12 MIKE MCBREARTY: James, what was the last  
13 name?

14 JAY PATEL: Jay Patel.

15 MIKE MCBREARTY: Jay Patel.

16 JAY PATEL: Correct.

17 MIKE MCBREARTY: Hi, Jay. We were asked by  
18 Region IV to make a voluntary phone call.

19 JAY PATEL: Okay.

20 MIKE MCBREARTY: Just to report the results  
21 of air samples we've been taking.

22 JAY PATEL: Sure.

23 MIKE MCBREARTY: So we've reported the last  
24 two days, and I'm ready to report today's results.

25 JAY PATEL: Okay. So what do you have?

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1 MIKE MCBREARTY: Our results vary from 1.8  
2 E to the minus 12 --

3 JAY PATEL: Okay.

4 MIKE MCBREARTY: -- to 2 E to the minus 12.

5 JAY PATEL: To 2.0 E to the minus 12?

6 MIKE MCBREARTY: Two point zero, E to the  
7 minus 12, for iodine 131.

8 JAY PATEL: For iodine 131. Any units?

9 MIKE MCBREARTY: Excuse me?

10 JAY PATEL: I'm sorry, 1.8 E to the 12 to  
11 --

12 MIKE MCBREARTY: Oh, I'm sorry. Yeah,  
13 microcuries per CC.

14 JAY PATEL: Microcuries per --

15 MIKE MCBREARTY: Yeah.

16 JAY PATEL: Okay.

17 MIKE MCBREARTY: And no other isotopes were  
18 identified.

19 JAY PATEL: No other isotopes identified.  
20 Okay, is there anything else that needs to be reported?

21 MIKE MCBREARTY: That's it.

22 JAY PATEL: All right. Thank you very much.

23 MIKE MCBREARTY: Okay.

24 JAY PATEL: Okay.

25 MIKE MCBREARTY: Thanks.

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JAY PATEL: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%JMQQ9L04065094

3 TIM HARRIS: PMT, Harris.

4 MALE PARTICIPANT: Yeah, I have Mr. McGhee  
5 from Palo Verde Compliance on the line. Please hold.

6 TIM HARRIS: This is Tim Harris in the NRC  
7 at the PMT.

8 MARK MCGHEE: Hi, this is Mark McGhee from  
9 the Palo Verde Nuclear Generating Station. And I have  
10 our data from the sample that we collected over the last  
11 24 hours on the roof of one of our buildings.

12 We're doing an air sample there. And we  
13 had reported yesterday, and at that time we requested  
14 to make a daily report.

15 TIM HARRIS: Okay.

16 MARK MCGHEE: And so I have that information.

17 TIM HARRIS: Okay.

18 MARK MCGHEE: I also have a PDF that I can  
19 email you. I understood that you did want to probably  
20 have that emailed as well.

21 TIM HARRIS: Yes, that would be great.

22 MARK MCGHEE: Okay. So to be clear, I just  
23 want to verify the email address.

24 TIM HARRIS: Yeah, it's a good question.

25 MARK MCGHEE: Okay. I have

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1 pmt12.hoc@nrc.gov.

2 TIM HARRIS: Yes, that's correct.

3 MARK MCGHEE: Okay. So I will use that email.

4 And I'll send you a PDF of the actual sample results.

5 But I can give you verbally what we picked up.

6 TIM HARRIS: Okay. I've got a call in three  
7 minutes so --

8 MARK MCGHEE: Okay.

9 TIM HARRIS: I guess the question is did  
10 the activity increase or decrease or --

11 MARK MCGHEE: Well, we did pick up cesium  
12 134, which was not on the sample yesterday.

13 TIM HARRIS: Hmm, okay.

14 MARK MCGHEE: And it was at 3.87 E to the  
15 minus 13 microcuries per CC. And then we had, I guess,  
16 I'll say a similar value of iodine 131, 2.495 E to the  
17 minus 12. So we're seeing that plus --

18 TIM HARRIS: And what radionuclide was that?  
19 I'm sorry.

20 MARK MCGHEE: It was iodine 131.

21 TIM HARRIS: Right, got you.

22 MARK MCGHEE: And so when you look at the  
23 report, if you look at the charcoal filter analysis,  
24 just the higher value for iodine than the one we're reporting  
25 of 2.495 E to the minus 12. And then on Page 6 of that

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1 report is the particulate result for cesium 134.

2 TIM HARRIS: Okay.

3 MARK MCGHEE: And so I'll email that at this  
4 time. And is there anything else you require verbally  
5 on this?

6 TIM HARRIS: No, I appreciate the call.  
7 And if we have any questions we'll respond, probably  
8 via email.

9 MARK MCGHEE: Okay, very good.

10 TIM HARRIS: Unless they're simple question,  
11 in which case we'll call you.

12 MARK MCGHEE: Uh-huh. What's your name  
13 again?

14 TIM HARRIS: Tim Harris.

15 MARK MCGHEE: Tim Harris. What does PMT stand  
16 for?

17 TIM HARRIS: Protective Measures Team.

18 MARK MCGHEE: Okay. And one quick question,  
19 is this pretty much indefinite now that you're going  
20 to want to continue this?

21 TIM HARRIS: Yeah. I would say until  
22 otherwise requested not to.

23 MARK MCGHEE: Understand. All right, Tim,  
24 thank you.

25 TIM HARRIS: Hey, thank you very much.

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MARK MCGHEE: Uh-huh.

TIM HARRIS: Bye.

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(CONFERENCE CALL INITIATED)

0%K%%1D\_04065094

TROY HEYTENS: Naval Reactor, Heytens.

TIM HARRIS: Hey, this is Tim Harris at NRC.

How are you?

TROY HEYTENS: Good. Hey, Tim.

TIM HARRIS: Hey, I found the information.

TROY HEYTENS: Okay.

TIM HARRIS: Have you got an email address?

I can email it to you.

TROY HEYTENS: Sure. It's

(b)(6)

(b)(6)

TIM HARRIS: So you're a Navy guy.

TROY HEYTENS: Yep, thought I was.

TIM HARRIS: Can I ask you a stupid question?

TROY HEYTENS: Sure.

TIM HARRIS: There was an email that we got from -- I can't get the guys name. But I think it was

(b)(5)

TROY HEYTENS: Okay.

TIM HARRIS: And I tried to access

(b)(6)

(b)(6)

TROY HEYTENS: Person?

TIM HARRIS: Well, it was an

(b)(6)

Web

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1 site.

2 TROY HEYTENS: Oh, yeah.

3 TIM HARRIS: So is that a JWIC (phonetic)  
4 thing?

5 TROY HEYTENS: I don't know all of the  
6 different levels. But it's along those lines. (b)(6)

7 (b)(6) Hughes (phonetic) net.

8 TIM HARRIS: Well, their operations staff,  
9 who has access here to SIPRNet, they tried to plug it  
10 in, and it didn't come up.

11 TROY HEYTENS: Yeah. Unfortunately that's  
12 not something I've got a lot of familiarity with.

13 TIM HARRIS: Okay. We've got people that  
14 understand the different systems and what's where.

15 TROY HEYTENS: Okay.

16 TIM HARRIS: So we can get it tomorrow.  
17 I just thought you might know.

18 TROY HEYTENS: Great. No, sorry, I can't  
19 help on that one.

20 TIM HARRIS: Okay, Troy.

21 TROY HEYTENS: Thank you.

22 TIM HARRIS: All right, see you.

23 TROY HEYTENS: Bye.

24 TIM HARRIS: Bye.  
25

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1 (CONFERENCE CALL INITIATED)

2 0%K)8AA\_04065094

3 TIM HARRIS: PMT, Harris.

4 MALE PARTICIPANT: Transferring Deputy  
5 Secretary with HHS.

6 TIM HARRIS: Okay.

7 MALE PARTICIPANT: Stay on the line.

8 TIM HARRIS: This is Tim Harris with the  
9 Protective Measures Team.

10 DR. NICOLE LURIE: Hey, it's Dr. Lurie.  
11 I'm the Assistant Secretary for Preparedness and Response  
12 at HHS. Greg Jaczko told me I should give you a buzz.

13 We've been having an active discussion  
14 tonight with PACOM and State about possibly distributing  
15 KI in Japan to take on instruction from either USG or  
16 the Japanese Government.

17 A question we had for you guys that came  
18 up is that DoD said that they were screening people for  
19 iodine allergy?

20 TIM HARRIS: Humm.

21 DR. NICOLE LURIE: And our question to you  
22 is, when you distribute the stuff at nuclear reactor  
23 sites or anything else, what do you do about that?

24 TIM HARRIS: That's a good question. Let  
25 me put you on hold a second and have you talk to somebody

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1 that probably has the answer for you.

2 DR. NICOLE LURIE: Okay. Are you also the  
3 person to ask about whether -- I understood that you  
4 guys had a stockpile of KI somewhere on an airport near  
5 Harrisburg, Pennsylvania.

6 TIM HARRIS: That could be true.

7 DR. NICOLE LURIE: Are you also the person  
8 who could find out?

9 TIM HARRIS: No. But I'm sitting right  
10 across the --

11 DR. NICOLE LURIE: Cool.

12 TIM HARRIS: -- table from the person that  
13 knows.

14 DR. NICOLE LURIE: Thanks.

15 TIM HARRIS: I don't see how to put somebody  
16 on hold. Hold on just one second.

17 DR. NICOLE LURIE: Okay.

18 (Offline comments)

19 GREG CASTO: Hello, this is Greg Casto.

20 DR. NICOLE LURIE: Hey, Nicole Lurie at HHS.

21 GREG CASTO: Hi, Nicole.

22 DR. NICOLE LURIE: So two questions for you.

23 GREG CASTO: Okay.

24 DR. NICOLE LURIE: The first is we've been  
25 having an active discussion tonight with State and DoD

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1 about possibly distributing KI to AMCITS in Japan to  
2 take upon instruction from USG or the Japanese Government.

3 The question is DoD says that they are  
4 screening all of their personnel and dependents for iodine  
5 allergy.

6 GREG CASTO: For iodine imaging?

7 DR. NICOLE LURIE: Allergy.

8 GREG CASTO: Iodine allergy, okay.

9 DR. NICOLE LURIE: And since you guys are  
10 the ones, not us, that do this in the U.S., my question  
11 to you is what do you do about that?

12 GREG CASTO: What do you mean what do we  
13 do?

14 DR. NICOLE LURIE: So if you needed to  
15 distribute KI --

16 GREG CASTO: Right.

17 DR. NICOLE LURIE: -- because of a release  
18 or when you distribute it to peoples' homes --

19 GREG CASTO: Right.

20 DR. NICOLE LURIE: Do you ask them if they're  
21 allergic to iodine?

22 GREG CASTO: We don't issue. We issue to  
23 the states, typically. And how the state handles that  
24 question is up to them.

25 DR. NICOLE LURIE: Oh, my God. But I thought

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1 you guys were -- so what would you do, since you're supposed  
2 to also have enough for a ten mile radius around --

3 GREG CASTO: We're not, no. KI is not  
4 required. The decision for whether or not a state or  
5 local uses KI is part of their --

6 DR. NICOLE LURIE: Part of it.

7 GREG CASTO: -- public protection strategy  
8 --

9 DR. NICOLE LURIE: Right.

10 GREG CASTO: -- is up to them. It's not to  
11 us. We don't have a requirement. And not all states use  
12 KI as part of that protective strategy.

13 If a state elects to do that, then they also  
14 have to decide how they deal with allergies. Typically,  
15 they don't. You generally know if you have an allergy  
16 to iodine.

17 DR. NICOLE LURIE: Right.

18 GREG CASTO: Because of just your normal  
19 uptake.

20 DR. NICOLE LURIE: Right. So it seems to  
21 me that when you give KI to somebody you ought to say,  
22 gee, if you're allergic to iodine you shouldn't take  
23 this.

24 GREG CASTO: Uh-huh, Uh-huh.

25 DR. NICOLE LURIE: But I didn't know if there

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1 was some protocol or something else. Everybody's now,  
2 like, winging it with the liability and everything else.

3 GREG CASTO: Right, yeah. And this country  
4 versus Japan --

5 DR. NICOLE LURIE: Well, we're talking about  
6 American citizens.

7 GREG CASTO: Oh, we're talking about American  
8 citizens, okay, understand. That should be, and I could  
9 find out. Let me find out.

10 Now, we can look. Now, I would think that,  
11 since it's a drug, wouldn't there be an FDA warning on  
12 the packaging itself?

13 DR. NICOLE LURIE: Okay, but remember this  
14 isn't normal packaging. This is stuff that's being given  
15 out of a stockpile, right.

16 GREG CASTO: It would still be packaged,  
17 no, no. It would have to comply with --

18 DR. NICOLE LURIE: No, it would.

19 GREG CASTO: Yeah.

20 DR. NICOLE LURIE: But you know what I'm  
21 saying.

22 GREG CASTO: Right.

23 DR. NICOLE LURIE: So we just figured maybe  
24 you guys had a protocol for how you did this --

25 GREG CASTO: No.

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1 DR. NICOLE LURIE: -- and that we should  
2 ask.

3 GREG CASTO: Yeah. No, we don't.

4 DR. NICOLE LURIE: All right.

5 GREG CASTO: Okay.

6 DR. NICOLE LURIE: All right.

7 GREG CASTO: Okay.

8 DR. NICOLE LURIE: And if you could get me  
9 then the information about -- my understanding was that  
10 there was a stockpile that you guys still maintained  
11 in Pennsylvania.

12 GREG CASTO: Stockpile we maintain in  
13 Pennsylvania, I did hear something about that.

14 DR. NICOLE LURIE: It was somewhere near  
15 an airport --

16 GREG CASTO: Okay.

17 DR. NICOLE LURIE: -- is all I know.

18 GREG CASTO: Okay. Now, do you have an idea  
19 about how much of the supply you're looking for?

20 DR. NICOLE LURIE: Well, my understanding  
21 is that DoD has a lot over there.

22 GREG CASTO: Uh-huh.

23 DR. NICOLE LURIE: And we only have liquid  
24 in the stockpile.

25 GREG CASTO: Okay.

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1 DR. NICOLE LURIE: And so we were just trying  
2 to figure out what you might have to backfill what DoD  
3 gives to AMCITS. We need it too.

4 GREG CASTO: Okay. So you have a number of  
5 people that you may plan to issue to. You just need to  
6 get the inventory.

7 DR. NICOLE LURIE: I know that there's about  
8 a quarter of a million American citizens living in Japan.

9 GREG CASTO: Okay, got you, 250 K, okay.  
10 Let me dig around and see what I can get as far as information.  
11 Now, what is your name again and contact?

12 DR. NICOLE LURIE: Let me just give me an  
13 email. It's nicole, N-I-C-O-L-E.

14 GREG CASTO: N-I-C-O-L-E.

15 DR. NICOLE LURIE: Dot --

16 GREG CASTO: Dot.

17 DR. NICOLE LURIE: L-U-R-I-E --

18 GREG CASTO: L-U-R-I-E.

19 DR. NICOLE LURIE: -- @hhs.gov.

20 GREG CASTO: Got it, hhs.gov. Okay.

21 DR. NICOLE LURIE: Good.

22 GREG CASTO: All right.

23 DR. NICOLE LURIE: Okay. Thanks.

24 GREG CASTO: Okay, bye.  
25

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(CONFERENCE CALL INITIATED)

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GREG CASTO: NRC Operations Center, Greg  
Casto.

MALE PARTICIPANT: Transferring Mr. Cook  
from the Japan team.

GREG CASTO: Okay, thank you.

BILL COOK: Hello.

GREG CASTO: Hello.

BILL COOK: Hi, this is Bill Cook with the  
Japan team. Who's this please?

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

BILL COOK: Greg.

GREG CASTO: Yeah.

BILL COOK: I was listening in when Jack  
was talking to you earlier.

GREG CASTO: Okay.

BILL COOK: Jack had to run off to a meeting.  
But he asked me to touch base with you on a related question.

GREG CASTO: Okay.

BILL COOK: (b)(5)

(b)(5)

GREG CASTO: Yes. Yes, I am.

BILL COOK: Okay. (b)(5)

(b)(5)

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1 GREG CASTO: Okay.

2 BILL COOK: Is there some type of conversion  
3 that can basically translate or convert a thyroid dose  
4 to a whole body dose?

5 GREG CASTO: Yeah, we can make some  
6 assumptions. And from this air sample result, yes. Yeah.  
7 We can look at it.

8 Hey, is there any way we can get the person  
9 or the group that took this sample on the line --

10 BILL COOK: I'm sure we can.

11 GREG CASTO: -- to get specific information.

12 BILL COOK: Yeah, I'll try to track them  
13 down. We just, a new fellow -- a new fellow, he's a Chief  
14 of Staff for Pacific Fleet -- who got inserted into the  
15 process.

16 GREG CASTO: Okay.

17 BILL COOK: (b)(5)

18 (b)(5)

19  
20 GREG CASTO: Okay.

21 BILL COOK: So let me get ahold of him.

22 GREG CASTO: All right.

23 BILL COOK: And see if he can get the right  
24 folks with NAVC --

25 GREG CASTO: Okay.

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1 BILL COOK: -- that actually took the sample  
2 and have them call into the headquarters.

3 GREG CASTO: Yeah. That would be good. And  
4 I would assume there are other samples being taken?

5 BILL COOK: I would assume so, but I --

6 GREG CASTO: Okay, yeah. And that's the kind  
7 of thing we need to know.

8 BILL COOK: Let me see if I can hook you  
9 up with NAVC then.

10 GREG CASTO: Perfect.

11 BILL COOK: Okay, sir.

12 GREG CASTO: Thank you very much.

13 BILL COOK: Your're welcome.

14 GREG CASTO: Okay, bye.

15 BILL COOK: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%K05JO604065094

3 GREG CASTO: NRC Operations Center, Greg  
4 Casto.

5 MALE PARTICIPANT: I have Jack Foster on  
6 from the Japan team on the line.

7 GREG CASTO: Okay. We have Jack on the line.  
8 Yep?

9 JACK FOSTER: Hi, this is Jack Foster. Who  
10 am I speaking to?

11 GREG CASTO: Hey, Jack, this is Greg Casto.

12 JACK FOSTER: Greg, got an emergent situation  
13 that's going on here. We had a Navy guy come into the  
14 office down here just a few minutes ago.

15 GREG CASTO: Uh-huh.

16 JACK FOSTER: -- and had mentioned he is  
17 giving us a quick situation report. And this was going  
18 parallel throughout State Department here at the Embassy.  
19 Apparently they were able to get a first positive silver  
20 gel radioiodine sample.

21 GREG CASTO: Umm.

22 JACK FOSTER: And I'm going to back shoot  
23 this sheet that he gave to us. It's really just a real  
24 quick scribbling of notes from the actual point of sample.

25 GREG CASTO: Okay.

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JACK FOSTER: (b)(5)

(b)(5)

GREG CASTO: (b)(5)

(b)(5)

JACK FOSTER: (b)(5)

(b)(5)

GREG CASTO: (b)(5)

JACK FOSTER: (b)(5)

(b)(5)

GREG CASTO: (b)(5)

JACK FOSTER: (b)(5)

(b)(5)

GREG CASTO: (b)(5)

JACK FOSTER: (b)(5)

GREG CASTO: Okay. I'm going to ask a couple

of questions. When was it taken?

JACK FOSTER: Okay, the time was 0935.

GREG CASTO: 0925.

JACK FOSTER: Yeah, and I have on here --

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1 GREG CASTO: Today?

2 JACK FOSTER: -- the location as being  
3 36.11-46 north.

4 GREG CASTO: .46 north, okay, this is lat  
5 long, okay.

6 JACK FOSTER: 140.16-87 east. And let me  
7 tell you, I'm going to say that the information's coming  
8 across kind of fast and furious.

9 They're actually briefing the Ambassador  
10 as we speak. I walked out of that office so I could make  
11 sure you got this information.

12 GREG CASTO: Okay, I appreciate it. Okay,  
13 so at 9:25 this morning --

14 JACK FOSTER: Right, local time here.

15 GREG CASTO: Right, understand. So that  
16 would be, okay, we'll figure that out. Okay. They got  
17 this sample. That's interesting.

18 JACK FOSTER: So the idea is that -- and  
19 just to give you the current information that we have  
20 in the Embassy, they went ahead and scrambled a couple  
21 of guys up on the roof to have air samples taken here.

22 GREG CASTO: Yeah. That would be key. And  
23 they need to take those samples with iodine cartridges.

24 JACK FOSTER: DOE is the people in charge  
25 of it, so I'm sure they're --

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1 GREG CASTO: Okay. Make sure, because if  
2 they're taking particulate samples it won't help.

3 JACK FOSTER: Okay, I'm writing this down.

4 GREG CASTO: Okay. It needs to be iodine  
5 silver Z light. And it sounds like they're using silver  
6 Z light here.

7 JACK FOSTER: Okay, let me fax this to you.

8 GREG CASTO: Okay.

9 JACK FOSTER: And --

10 GREG CASTO: Yeah, to pmt12.

11 JACK FOSTER: -- we'll get back in touch

12 --

13 GREG CASTO: Oh, okay, you're faxing.

14 JACK FOSTER: I'll get it for you, okay.

15 GREG CASTO: Okay, yeah. Any data you get  
16 on this, you can send it to pmt12 if you can send it  
17 electronically. Otherwise fax it to the HOOs and make  
18 it an urgent. And we'll start working this.

19 JACK FOSTER: Okay. I'm going to go ahead  
20 and get it faxed right now, get it to the HOO. And you  
21 should be receiving it in minutes. Why don't you have  
22 somebody on the HOO fax machine and pick it up?

23 GREG CASTO: Okay, will do.

24 JACK FOSTER: And I will talk to you as soon  
25 as I can.

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GREG CASTO: Okay, Jack. Thanks.

JACK FOSTER: Bye-bye.

GREG CASTO: Okay, bye.

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**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Japan's Fukushima Daiichi  
PMT RAAD ASST Director Audio Files

Docket Number: N/A

Location: N/A

Date: March 21, 2011

Work Order No.: NRC-4222

Pages 1-134

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1 UNITED STATES OF AMERICA  
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4 JAPAN'S FUKUSHIMA DAIICHI  
5 PMT RAAD ASST DIRECTOR AUDIO FILES

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7 MONDAY,  
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1 (CONFERENCE CALL INITIATED)

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3 DAN BARSS: NRC, this is Dan.

4 HEADQUARTERS OPERATIONS OFFICER: Hey, this  
5 is the Ops Officer. Hey, we got a call from Naval Reactors.  
6 They're trying to get a hold of Tom Roberts. Is he  
7 in there?

8 DAN BARSS: Tom Roberts, I don't know that  
9 Tom Roberts is here. Hold on.

10 HEADQUARTERS OPERATIONS OFFICER: All  
11 right.

12 DAN BARSS: But I need to talk to Naval  
13 Reactors.

14 HEADQUARTERS OPERATIONS OFFICER: Okay,  
15 well --

16 DAN BARSS: Can you connect me with them  
17 and I'll see if I can help them, and then they can help  
18 me.

19 HEADQUARTERS OPERATIONS OFFICER: You can  
20 kill two birds with one stone.

21 DAN BARSS: Yes, we'll try.

22 HEADQUARTERS OPERATIONS OFFICER: All right,  
23 well I wish you luck. Yes, I'm going to connect you  
24 right now, okay?

25 DAN BARSS: Thanks.

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1 HEADQUARTERS OPERATIONS OFFICER: Yes.

2 DAN BARSS: Hello?

3 MALE PARTICIPANT: Hi, is this Mr. Roberts?

4 DAN BARSS: No, this is Dan Barss in the  
5 NRC Ops Center. I don't know Mr. Roberts and nobody  
6 here seems to know where he is or who he is, but what  
7 is it we're looking for and what can I do to help you?

8 TROY HIGHTONS (phonetic): Oh, well I'm  
9 trying to get in touch with him. I'm from Naval Reactors  
10 and he is one of our people who has been on location  
11 up there --

12 DAN BARSS: Oh, okay.

13 TROY HIGHTONS: -- following the Japan  
14 situation.

15 DAN BARSS: So he's one of your folks?

16 TROY HIGHTONS: Yes, he's one of our folks  
17 who has been up there working with your folks.

18 DAN BARSS: Yes, he might be with the liaison  
19 team. Hold on and I can run over there and see if we  
20 can find him or not.

21 TROY HIGHTONS: Okay.

22 DAN BARSS: His name again was Tom?

23 TROY HIGHTONS: Roberts.

24 DAN BARSS: Roberts.

25 TROY HIGHTONS: Yes.

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1 DAN BARSS: Okay.

2 TROY HIGHTONS: Thank you.

3 DAN BARSS: Is that (indiscernible) there  
4 was a Naval Reactors guy wandering around here last night.

5 MALE PARTICIPANT: Yes. What's the name?

6 DAN BARSS: Tom Roberts.

7 MALE PARTICIPANT: Roberts? I'll check.

8 DAN BARSS: Yes, go see if he's over there  
9 (indiscernible).

10 (Crosstalk)

11 DAN BARSS: Yes, I've got a call for him.  
12 Hey, and while I've got you and while we're looking  
13 for him --

14 TROY HIGHTONS: Sure.

15 DAN BARSS: I had a request to contact you  
16 guys and I don't know if you're the right person to talk  
17 to about this, but we heard somewhere from something,  
18 and I don't know exactly what the sources are, was that  
19 Naval Reactors, or there was some military installation,  
20 had recommended or was evacuating pregnant females from  
21 the Tokyo area and moving them to Okinawa. And we're  
22 wondering if that's true, and if it is, why and what's  
23 the source of that action?

24 TROY HIGHTONS: Okay. I don't have any  
25 information about that.

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1 DAN BARSS: Okay.

2 TROY HIGHTONS: That wouldn't have come from  
3 us. I imagine that would have come from UMED (phonetic)  
4 or the Baton Commander, but I don't know of anything  
5 about that so --

6 DAN BARSS: Any idea who to contact or what  
7 number I ought to call to start my search?

8 TROY HIGHTONS: Well, you guys have a liaison  
9 --

10 DAN BARSS: Yes, I've got a number here for  
11 someone.

12 TROY HIGHTONS: -- out in Japan, don't you?

13 DAN BARSS: Yes.

14 TROY HIGHTONS: That would be the best place  
15 to start --

16 (Crosstalk)

17 DAN BARSS: Allright. I'll start with that.

18 Okay, and we found Tom Roberts for you. Hold on, I'll  
19 give the phone to him.

20 TROY HIGHTONS: Thank you.

21 TOM ROBERTS: This is Roberts.

22 TROY HIGHTONS: Hey, Tom. Troy Hightons  
23 calling.

24 TOM ROBERTS: Hey, Troy.

25 TROY HIGHTONS: Hey, Mr. Burrows just got

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1 a question from Brumbaugh up at Venice (phonetic)  
2 regarding whether their comments on the MELCOR modeling  
3 were received where you guys are?

4 TOM ROBERTS: Yes, the comments were  
5 received. NRC is looking at them.

6 TROY HIGHTONS: Okay, so no reaction yet?

7 TOM ROBERTS: No reaction yet other than  
8 they'd observed they got a lot of comments.

9 TROY HIGHTONS: Okay.

10 TOM ROBERTS: So based on that I'm guessing  
11 they didn't expect to get a lot of comments.

12 TROY HIGHTONS: Okay, so they do have them  
13 and they're still churning on them?

14 TOM ROBERTS: Right, they do have them.  
15 The executive team has logged it on the chron log, so  
16 they've worked in a big (indiscernible) to have them.

17 TROY HIGHTONS: Okay.

18 TOM ROBERTS: In fact, it's right in front  
19 of me -- where the heck is it? Yes, it says, "Tinkler  
20 (phonetic), last night started getting questions on what  
21 would happen in SFP with respect to core concrete  
22 interaction. We made MELCOR calculations available to  
23 NR. Now getting many Q's on models, et cetera. We are  
24 in process of trying to figure out Q."

25 TROY HIGHTONS: They're trying to figure

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1 out the questions?

2 TOM ROBERTS: What to do with them.

3 TROY HIGHTONS: Oh, what to do with them.

4 TOM ROBERTS: Yes, I'm guessing that's what  
5 that means. I'm reading literally what it says on the  
6 board here.

7 TROY HIGHTONS: Okay.

8 TOM ROBERTS: So they acknowledged they have  
9 them. That's from 1615 this evening.

10 TROY HIGHTONS: Okay. I will pass that back  
11 to Mr. Brumbaugh.

12 TOM ROBERTS: Right. Yes, okay, so that  
13 came from Brumbaugh?

14 TROY HIGHTONS: Yes. All right, and --

15 TOM ROBERTS: So as usual, just call --  
16 because my phone was ringing. I tried to get across  
17 the room to it. I didn't get there in time. It said  
18 private number.

19 TROY HIGHTONS: It did. Maybe the ECC number  
20 doesn't show up as a listed number.

21 TOM ROBERTS: Yes.

22 TROY HIGHTONS: So yes, I was just trying  
23 to get in touch with you so I thought I'd call the Ops  
24 Center in case.

25 TOM ROBERTS: What's the best number to get

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1 you from, because I keep calling the 6397 and nobody  
2 ever answers.

3 TROY HIGHTONS: Yes, that's like the Admiral  
4 or Troutman's (phonetic) line. It's 6387 is the line  
5 --

6 TOM ROBERTS: 6387?

7 TROY HIGHTONS: -- over where I sit, over  
8 by all the computers.

9 TOM ROBERTS: Yes, okay I'll call in in a  
10 couple minutes.

11 TROY HIGHTONS: Okay, thanks Tom.

12 TOM ROBERTS: Okay, sure. Bye.

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MALE PARTICIPANT: (Indiscernible) there  
hasn't been an opening yet (indiscernible).

(Crosstalk)

FEMALE PARTICIPANT: Yes, that's what I was  
thinking, saying a trajectory dose of (indiscernible).

(Phone ringing)

(Crosstalk)

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1 (CONFERENCE CALL INITIATED)

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3 (Crosstalk)

4 DAN BARSS: Hello?

5 OPERATOR: Yes, I've got Palo Verde  
6 personnel on the line for you.

7 DAN BARSS: I didn't know I was calling them,  
8 but are they calling for me?

9 OPERATOR: That's what I said. I've got  
10 -- yes. I don't know if for you, but in the PMT team.

11 DAN BARSS: All right, that's me.

12 OPERATOR: All right, sir.

13 DAN BARSS: Hello?

14 BOB ROUTOLO (phonetic): Yes, this Bob  
15 Routolo and Mark McGhee from Palo Verde.

16 DAN BARSS: Yes.

17 BOB ROUTOLO: Yes, we have daily reporting  
18 numbers to report to you for the PMT.

19 DAN BARSS: Okay.

20 BOB ROUTOLO: Today's particulate grab  
21 sample on -- it's going to be unit 2 aux building roof,  
22 had Iodine-131 --

23 DAN BARSS: Hold on a second, now you're  
24 getting head of me here.

25 BOB ROUTOLO: Not a problem.

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DAN BARSS: Can you give me your name again?

BOB ROUTOLO: Bob Routolo, R-O-U-T-O-L-O.

DAN BARSS: R-O-U-T --

BOB ROUTOLO: T-O-L-O.

DAN BARSS: -- L-O, Okay.

BOB ROUTOLO: And Mark McGhee.

DAN BARSS: All right. And give me a number to call you back if I lose you or need to --

BOB ROUTOLO: Okay, I think we're good.

DAN BARSS: Give me a number to call you back in case I lose you or somebody else needs more information.

BOB ROUTOLO: 623 --

DAN BARSS: 623 --

MARK MCGHEE: Actually this one should give us -- let me give you my cell phone number. Again, this is Mark McGhee.

DAN BARSS: Sure.

MARK MCGHEE: Cell phone is (b)(6) --

DAN BARSS: (b)(6)

MARK MCGHEE --

DAN BARSS:

MARK MCGHEE

DAN BARSS: Okay.

MARK MCGHEE: Right. I am with the

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1 compliance department.

2 DAN BARSS: All right. Now, you were going  
3 to give me, you said from turbine building?

4 MARK MCGHEE: This is the unit 2 aux building  
5 roof.

6 DAN BARSS: Unit 2 aux building roof. Okay.

7 MARK MCGHEE: Particulate grab sample  
8 results is showing Iodine-131 at 3.73E-13 microcuries  
9 per cc.

10 DAN BARSS: That was unit 2 reactor on --  
11 I'm sorry, aux building roof particulate grab sample,  
12 Iodine-131, 3.73E-13 of microcuries per cc.

13 MARK MCGHEE: That is correct. The iodine  
14 grab sample results for the same location showing --  
15 (Crosstalk)

16 BOB ROUTOLO: Pick it up.

17 MARK MCGHEE: -- is showing Iodine-131 at  
18 6.70E-13 microcuries per cc.

19 DAN BARSS: That was an iodine grab sample?

20 MARK MCGHEE: That's correct.

21 DAN BARSS: Different than the particulate?  
22 I guess it was a particulate, okay.

23 MARK MCGHEE: Right.

24 DAN BARSS: So an iodine grab sample was  
25 Iodine-131 at 6.70E-13 microcuries per cc.

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1 MARK MCGHEE: That is correct.

2 DAN BARSS: Okay.

3 BOB ROUTOLO: And that is the end of our  
4 report for today.

5 DAN BARSS: Well, Palo Verde, thank you for  
6 the information.

7 BOB ROUTOLO: Okay, and we will be forwarding  
8 the sample data to the pmt12.hoc@nrc.gov.

9 DAN BARSS: Yes, that will be correct.

10 BOB ROUTOLO: Okay. Thank you very much  
11 and you have a good day, too.

12 DAN BARSS: Thank you.

13 BOB ROUTOLO: All right, bye.

14 MARK MCGHEE: Bye, now.

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3 TROY HIGHTONS: Naval Reactors, DCC  
4 Hightons.

5 DAN BARSS: Yes, this is Dan Barss of the  
6 NRC. I'm one of the Protective Measures Team.

7 TROY HIGHTONS: Hi.

8 DAN BARSS: I think Tom Roberts just talked  
9 with you a little bit ago and asked you a question for  
10 me.

11 TROY HIGHTONS: Yes, I'm still running it  
12 down but --

13 DAN BARSS: Okay.

14 TROY HIGHTONS: -- you got anything for me?

15 DAN BARSS: Well it's kind of related to  
16 that.

17 TROY HIGHTONS: Okay.

18 DAN BARSS: And that's we heard two -- and  
19 this was on the White House phone call today, that Naval  
20 Reactors was working on some kind of a cohort study to  
21 try and assign dose to people. And well, we want to  
22 know were you really doing that and what's going on with  
23 that?

24 TROY HIGHTONS: Could you say that again?  
25 I didn't catch all of it?

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1 DAN BARSS: It was that someone was doing  
2 some kind of a cohort study to try to assign dose to  
3 folks that were at the different bases.

4 TROY HIGHTONS: Okay, cohort?

5 DAN BARSS: Cohort, yes.

6 TROY HIGHTONS: Got you. I thought you said

7 (b)(5)

8 DAN BARSS: No, (b)(5)

9 (b)(5)

10 TROY HIGHTONS: Yes. Okay.

11 DAN BARSS: Yes, some kind of a dose  
12 reconstruction that you folks were going to be working  
13 on or were working on.

14 TROY HIGHTONS: Okay. Let me get back to  
15 you on that when I get back to you on the other one,  
16 if that would be all right?

17 DAN BARSS: Yes, well --

18 TROY HIGHTONS: What's a good number to reach  
19 you at?

20 DAN BARSS: Yes, you can call me at 301 --

21 TROY HIGHTONS: Yes.

22 DAN BARSS: -- 816 --

23 TROY HIGHTONS: 816 --

24 DAN BARSS: -- 5100 --

25 TROY HIGHTONS: -- okay.

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DAN BARSS: -- and then extension 5415, or  
just ask for the PMT Assistant Director.

TROY HIGHTONS: Okay, thank you very much.

DAN BARSS: Thank you.

TROY HIGHTONS: Bye-bye.

DAN BARSS: Yes, bye.

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MALE PARTICIPANT: And the data points at  
2035 --

GREG CASTO: NRC Operations Center, Greg  
Casto.

MALE PARTICIPANT: Yes, this is the HOO.  
I just forwarded you a fax from the site team on some  
protective measure information.

GREG CASTO: Okay.

MALE PARTICIPANT: Okay? I went to PMT1.

GREG CASTO: PMT12.

MALE PARTICIPANT: I don't have a PMT12.

GREG CASTO: You need it.

MALE PARTICIPANT: Hold on, let me check  
it on here; PMT -- well, 12, and nothing shows up.

GREG CASTO: Okay. So it would be  
pmt12.hoc@nrc.gov.

MALE PARTICIPANT: .hoc --

GREG CASTO: At --

MALE PARTICIPANT: -- NRC?

GREG CASTO: Yes.

MALE PARTICIPANT: Yes. I'm going to send  
it.

GREG CASTO: Thank you.

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MALE PARTICIPANT: Bye.

GREG CASTO: Bye.

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1 (CONFERENCE CALL INITIATED)

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3 GREG CASTO: NRC Operations Center, Greg  
4 Casto.

5 OPERATOR: John Moninger on the other line.

6 GREG CASTO: Okay, thanks.

7 OPERATOR: All right, thank you.

8 GREG CASTO: Hello?

9 JOHN MONINGER: Hello?

10 GREG CASTO: John, this is Greg.

11 JOHN MONINGER: Greg, hey, how you doing,  
12 sir?

13 GREG CASTO: Pretty good.

14 JOHN MONINGER: Hey, we had a question come  
15 down with regard to our calculations we do for the doses  
16 out there.

17 GREG CASTO: Yes.

18 JOHN MONINGER: In particular, the specifics  
19 of the questions are, where did we actually pull the  
20 MECS data that we're using in our modeling?

21 GREG CASTO: Okay. We are pulling it from  
22 a variety of locations, none of which is onsite --

23 JOHN MONINGER: Because someone was saying  
24 DOE also monitors. We had a guy --

25 ANDRE BROOKS (phonetic): Hi there. It's

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1 Lieutenant Colonel Andre Brooks. I'm an LNO for the  
2 USSTA (phonetic) and the assumption that I had while  
3 I was over there is that the DOE were providing all of  
4 the modeling and all of the weather data from AMF.

5 I guess I just didn't put two and two together.

6 And we got a phone call about ten minutes ago from a  
7 Captain Shibata, he's out of the Japanese MOD.

8 GREG CASTO: Yes.

9 ANDRE BROOKS: The question was, how is the  
10 NRC collecting weather data, and from which stations  
11 are they doing it from?

12 GREG CASTO: Okay. We're doing a couple  
13 things. We're collecting from multiple stations around  
14 the site and nothing is right at the plant, but there,  
15 for instance, is I know a weather station in Soma. We've  
16 been using that. We've been using Sendai. We've been  
17 using locations south, and we compiled that data.

18 We also have been getting information from  
19 NARAC and they provide us data from that Doppler, but  
20 from MIA computer modeling.

21 ANDRE BROOKS: Now that's what I was  
22 tracking.

23 GREG CASTO: Right, and they provide us that  
24 as well as forecasts and we use both when we try to come  
25 up with our assessment runs, which would just be RASCAL

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1 just within the 50-mile runs that we use.

2 And then NARAC uses their composite  
3 information from data, or from Doppler and satellite  
4 and everything else to do their modeling runs.

5 ANDRE BROOKS: Okay.

6 GREG CASTO: Okay?

7 ANDRE BROOKS: All right.

(b)(5)

8 (b)(5)

9 GREG CASTO: No.

10 ANDRE BROOKS: Okay.

11 JOHN MONINGER: I mean hopefully the  
12 information we're using is --

13 ANDRE BROOKS: I agree. I just -- and I  
14 mean if they think more data points, or less data points;  
15 whatever, I mean it's good to just have the technical  
16 experts compare notes.

17 GREG CASTO: Right.

18 ANDRE BROOKS: Right, Greg?

19 GREG CASTO: Yes.

20 JOHN MONINGER: If they have suggestions  
21 of what they think is better weather that we should be  
22 using, then --

23 GREG CASTO: Oh, we'd love it.

24 JOHN MONINGER: -- we're open --

25 (Crosstalk)

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1                   ANDRE BROOKS: -- provide the basis as to  
2 why it's (indiscernible) --

3                   GREG CASTO: Absolutely. We'll gladly take  
4 it. If they've got instrumentation at or very near sight,  
5 then we would love that.

6                   ANDRE BROOKS: Okay. I'll answer back and  
7 ping them with another request.

8                   GREG CASTO: Okay.

9                   ANDRE BROOKS: Okay, thank you.

10                  GREG CASTO: No problem. Thanks.

11                  JOHN MONINGER: Thanks.

12                  GREG CASTO: Bye. Okay.

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1 (CONFERENCE CALL INITIATED)

2 0%K7C84L04065094

3 GREG CASTO: 398 -- that's excessive.

4 CHRIS NOSER: Naval Reactors, may I help  
5 you?

6 GREG CASTO: Hi, this is Greg Casto at the  
7 Nuclear Regulatory Commission --

8 CHRIS NOSER: Yes.

9 GREG CASTO: -- Operations Center. I'm  
10 looking for either the RAAD assessment lead or Chuck  
11 Burrows.

12 CHRIS NOSER: Yes, hang on a sec.

13 GREG CASTO: Thanks.

14 CHRIS NOSER: This is Chris Noser.

15 GREG CASTO: Hey, Chris. Okay.

16 CHRIS NOSER: Okay.

17 GREG CASTO: Hey, oh, while I've got you  
18 on the phone. I looked on SIPRNet --

19 CHRIS NOSER: Yes.

20 GREG CASTO: -- and it looked like what you  
21 were talking about, there was nothing recent that we  
22 had received, as in --

23 CHRIS NOSER: It's within the last two days,  
24 day-and-a-half.

25 GREG CASTO: Oh, okay, and these were the

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1 meteorological footprint I guess you'd say over the past  
2 several days?

3 CHRIS NOSER: There were some isotopic  
4 samples taken of the plume about a day-and-a-half ago.

5 GREG CASTO: That we didn't see.

6 CHRIS NOSER: Okay. I guess I need to call  
7 again to whoever I talked with to walk them through exactly  
8 what to hand you.

9 GREG CASTO: Okay.

10 CHRIS NOSER: Do you have a -- who did you  
11 talk to? Who was the name you were working with?

12 GREG CASTO: Oh, on --

13 CHRIS NOSER: Your IT security folks that  
14 were looking at the SIPRNet.

15 GREG CASTO: Oh, it's the -- well, I went  
16 in and looked myself.

17 CHRIS NOSER: Oh.

18 GREG CASTO: Yes, but if it goes directly  
19 to the HOOs, they can -- it looks like if they've got  
20 a SIPRNet address for NRC Operations Center, it is just  
21 coming in there.

22 CHRIS NOSER: Okay.

23 GREG CASTO: We've got a --

24 CHRIS NOSER: What I asked them to do is  
25 print it out and take it to your team. Let me --

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1 GREG CASTO: Right.

2 CHRIS NOSER: I will give them your name  
3 now to make sure that it gets to you.

4 GREG CASTO: Okay. They just need to know  
5 where, you know, what specific it is and when it was  
6 sent and then we should be able to find it.

7 CHRIS NOSER: Yes, I pointed that out to  
8 them.

9 GREG CASTO: Oh, okay. Actually --

10 CHRIS NOSER: I'll do it again to make sure  
11 that you get it.

12 GREG CASTO: I'm sorry, okay.

13 CHRIS NOSER: No, that's okay.

14 GREG CASTO: All right.

15 CHRIS NOSER: Hang on a sec, here's our RAAD  
16 assessment lead.

17 GREG CASTO: Thank you.

18 MR. DAVENPORT (phonetic): This is  
19 Davenport.

20 GREG CASTO: This is Greg Casto at NRC.

21 MR. DAVENPORT: Hi.

22 GREG CASTO: Hey. We were looking for some  
23 information, I guess a fax and/or email that had the  
24 dose analysis of the samples that we were talking about  
25 earlier.

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1 MR. DAVENPORT: The current air samples done  
2 in Yokosuka?

3 GREG CASTO: Right, that's correct. And  
4 there was additional information too, the historical  
5 information farther south. No, I guess that was Yokosuka.  
6 There was the current and historical information from  
7 Yokosuka, and then there is the information from I guess  
8 90 miles away, whatever bas that is.

9 MR. DAVENPORT: So, the current and  
10 historical for Yokosuka currently the portable air samples  
11 that we're taking in Yokosuka are being analyzed.

12 GREG CASTO: Right.

13 MR. DAVENPORT: So we should be getting those  
14 here within an hour or two, the (indiscernible) on those.

15 GREG CASTO: Okay. Now, when we were talking  
16 to Chuck Burrows, I thought he said you had some isotopic  
17 analysis already done, probably from the earlier samples,  
18 the 14th and 15th?

19 MR. DAVENPORT: Correct, we do have those  
20 historical ones. I'm compiling that package.

21 GREG CASTO: Oh, okay. You haven't sent  
22 it yet?

23 MR. DAVENPORT: Correct.

24 GREG CASTO: Okay. All right. Yes, we're  
25 looking -- do you have an ETA so we won't keep bothering

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1 you?

2 MR. DAVENPORT: I'll try to have it together  
3 in a half-an-hour.

4 GREG CASTO: Okay, yes. I mean even if you  
5 send it to us in batches. The sooner you send, the sooner  
6 we'll start looking and --

7 MR. DAVENPORT: I understand.

8 GREG CASTO: Okay, great.

9 MR. DAVENPORT: Okay.

10 GREG CASTO: Thank you.

11 MR. DAVENPORT: Bye.

12 GREG CASTO: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%K25N3L04065094

3 GREG CASTO: NRC Operations Center, Greg  
4 Casto.

5 OPERATOR: Hey, Greg. I'm going to connect  
6 John Moninger from the Tokyo team to you.

7 GREG CASTO: Yes. Okay, Tokyo team on the  
8 phone.

9 JOHN MONINGER: Hi.

10 GREG CASTO: Hey.

11 JOHN MONINGER: Hey, are you guys there?

12 GREG CASTO: Yes, hold on. I'm going to  
13 try to put you on speaker phone.

14 JOHN MONINGER: All right, thanks.

15 GREG CASTO: Okay.

16 JOHN MONINGER: Hey --

17 GREG CASTO: Okay.

18 JOHN MONINGER: -- the conference call with  
19 the State Department and Naval Reactors is currently  
20 ongoing. It's the same number. Are you guys ready?

21 GREG CASTO: Go.

22 JOHN MONINGER: 202 --

23 GREG CASTO: 202 --

24 JOHN MONINGER: -- 647 --

25 GREG CASTO: -- 647 --

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1 JOHN MONINGER: -- 1512.

2 GREG CASTO: -- 1512.

3 JOHN MONINGER: Ask for I guess the (b)(6)

4 (b)(6)

5 GREG CASTO: Ask for (b)(6)

6 JOHN MONINGER: Yes, the (b)(6) bridge,

7 (b)(6)

8 GREG CASTO: (b)(6) bridge?

9 JOHN MONINGER: Yes.

10 GREG CASTO: Okay.

11 JOHN MONINGER: And if you guys don't get  
12 in, give us a buzz back.

13 GREG CASTO: Okay.

14 JOHN MONINGER: Because we've actually got  
15 some guys listening in, so it's been going on. But still,  
16 you ought to get in there and if you need more info,  
17 we'll back brief you.

18 MALE PARTICIPANT: Okay, and now is this  
19 Bill?

20 JOHN MONINGER: Pardon me?

21 FEMALE PARTICIPANT: (Indiscernible).

22 GREG CASTO: Oh, this is John.

23 MALE PARTICIPANT: Oh, John. Okay. John,  
24 we had talked to Jack Foster and Bill Cook --

25 JOHN MONINGER: Yes.

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1 MALE PARTICIPANT: -- on the Japan team --

2 JOHN MONINGER: Yes.

3 MALE PARTICIPANT: -- they were going to  
4 try to get us in contact with the group or individual  
5 that is taking these samples.

6 JOHN MONINGER: And they're on that line  
7 right now.

8 MALE PARTICIPANT: They are on that line?

9 JOHN MONINGER: It's the Navy is on the line  
10 and the NRC and the Navy are supposed to be comparing  
11 notes and figuring out what the heck this means.

12 MALE PARTICIPANT: Understand.

13 JOHN MONINGER: All right, so get on the  
14 line.

15 MALE PARTICIPANT: Got it. Thank you.

16 JOHN MONINGER: Sounds good, thanks.

17 MALE PARTICIPANT: Bye.

18 JOHN MONINGER: Bye.

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(CONFERENCE CALL INITIATED)

0%K362#604065094

GREG CASTO: NRC Operations Center, Greg  
Casto.

OPERATOR: I have someone from Naval  
Reactors.

GREG CASTO: Okay. Naval Reactors. Hello?

CHRIS NOSER: Hi, this is Chris Noser, Naval  
Reactor Team.

GREG CASTO: Hey, Chris, how are you doing?

CHRIS NOSER: Who am I speaking with?

GREG CASTO: This is Greg Casto.

CHRIS NOSER: Hey, Greg, how are you?

GREG CASTO: Good.

CHRIS NOSER: I wanted to real quick -- we've  
been -- I don't know if you know Dave Herman who we have  
over there?

GREG CASTO: Yes.

CHRIS NOSER: Yes, so I think he's working  
on something else at the moment, but I wanted to see

(b)(5)

GREG CASTO: Okay, thanks.

CHRIS NOSER: (b)(5)

(b)(5)

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1 --

2 GREG CASTO: Okay.

3 CHRIS NOSER: -- that you guys had.

4 GREG CASTO: Got it.

5 CHRIS NOSER: So do you happen to know who  
6 has a SIPRNet account that I can talk to and give the  
7 address to?

8 GREG CASTO: Yes, if you go back to the HOOs

9 --

10 CHRIS NOSER: Yes.

11 GREG CASTO: -- to our Headquarters  
12 Operation officers, they can give it to you.

13 CHRIS NOSER: Okay, good. Thanks.

14 GREG CASTO: Okay.

15 CHRIS NOSER: And they'll get it to whoever  
16 needs to have it?

17 GREG CASTO: Yes, they'll alert us and we'll  
18 go back and look at it.

19 CHRIS NOSER: Okay, good. Thanks.

20 GREG CASTO: Okay, thanks.

21 CHRIS NOSER: I'll check up with them.  
22 Thanks.

23 GREG CASTO: Appreciate it.

24 CHRIS NOSER: All right, bye.

25 GREG CASTO: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KDR(D\_04065094

3 FEMALE PARTICIPANT: Protective Measures  
4 Team.

5 GEORGE ACEY (Phonetic): I'm trying to reach  
6 Kimberly (phonetic).

7 FEMALE PARTICIPANT: Kimberly?

8 GEORGE ACEY: Dose assessor.

9 MALE PARTICIPANT: For Kimberly.

10 FEMALE PARTICIPANT: Oh, hang on a sec.

11 GEORGE ACEY: Thanks.

12 FEMALE PARTICIPANT: Kim. Okay.

13 (Crosstalk)

14 KIMBERLY: This is Kimberly.

15 GEORGE ACEY: Kimberly, it's George Acey.

16 KIMBERLY: Hi, George. Do you remember  
17 where you dragged and dropped that file to RASCAL?

18 GEORGE ACEY: I think that was in the RASCAL  
19 file, the RASCAL folder.

20 KIMBERLY: The folder?

21 GEORGE ACEY: Yes, program files, RASCAL.

22 KIMBERLY: Yes.

23 GEORGE ACEY: Why, did you lose one?

24 KIMBERLY: Well, okay, so I was working on  
25 one system and all I was trying to do was change the

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1 MET data and something happened and now no safe case  
2 will run on one computer.

3 GEORGE ACEY: Which computer is that?

4 KIMBERLY: It's the one that we primarily  
5 work at.

6 GEORGE ACEY: Wow.

7 KIMBERLY: So we hopped over to the other  
8 system and are running all the cases from another system.

9 GEORGE ACEY: Huh, I mean --

10 KIMBERLY: Every --

11 GEORGE ACEY: -- no load cases, that's  
12 strange.

13 KIMBERLY: Well, it will load cases, but  
14 then as soon as you hit the MET button, it crashes, fatal  
15 error.

16 GEORGE ACEY: What's the error?

17 KIMBERLY: 17, something like a  
18 mixed-matched or something like that. I can't tell you  
19 off the top of my head.

20 GEORGE ACEY: Huh, weird. Because I don't  
21 understand what could have happened to that computer.

22 KIMBERLY: I don't know either, that's why  
23 I was calling you. Actually, Lou told me to call you.  
24 He wanted to try to find the file, isolate the file  
25 and find it and --

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1 GEORGE ACEY: I mean the file is -- I can  
2 tell you the name or I can email it to you.

3 KIMBERLY: Okay.

4 GEORGE ACEY: I can't imagine, I mean I don't  
5 know what you're going to do. The file was obviously  
6 there.

7 KIMBERLY: Yes.

8 GEORGE ACEY: Unless somebody went in and  
9 -- you guys have been on that machine probably all night.

10 KIMBERLY: Yes, it was just running one  
11 minute and then changed MET data, and the next minute,  
12 it dies.

13 GEORGE ACEY: Yes --

14 KIMBERLY: I don't know.

15 GEORGE ACEY: -- the fact that it won't load  
16 any cases -- so it won't load any cases?

17 KIMBERLY: It will load the case but as soon  
18 as you hit the meteorology button, you get a fatal error,  
19 regardless of what case it is, regardless of what folder  
20 you pulled it out of.

21 GEORGE ACEY: Have you tried stopping the  
22 program and restarting it?

23 KIMBERLY: Oh, yes. We've closed it out  
24 many times and reopened and started over. Yes.

25 GEORGE ACEY: So you restarted all of RASCAL?

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1 KIMBERLY: Yes, a couple times, yes.

2 GEORGE ACEY: All right. That would have  
3 taken care of any memory issues or something like that.

4 KIMBERLY: Yes, okay. So I guess if you  
5 email the file -- I don't know if it's going to work  
6 or not.

7 GEORGE ACEY: I'm not going to email you  
8 the file. The file is probably still there.

9 KIMBERLY: Okay.

10 GEORGE ACEY: I mean I can re-email you the  
11 file, that will work. I think it's probably a couple  
12 megabytes.

13 KIMBERLY: Okay.

14 GEORGE ACEY: I just don't understand what  
15 could have happened to that file. You know, it's not  
16 like it's gotten corrupted or something like that --

17 KIMBERLY: Yes.

18 GEORGE ACEY: -- I don't think.

19 KIMBERLY: Yes, I don't know.

20 GEORGE ACEY: I'm suspecting something else  
21 has happened to that computer that messed up the way  
22 the files are organized. What would help me is if I  
23 knew the exact error message.

24 KIMBERLY: I bet I can pull that up for you.

25 Can you hang on?

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1 GEORGE ACEY: Okay, yes.

2 KIMBERLY: Okay. Can you put George on hold,  
3 or somehow can I pick it up over there?

4 FEMALE PARTICIPANT: I don't know.

5 (Crosstalk)

6 KIMBERLY: I'm going to go get the error  
7 number.

8 FEMALE PARTICIPANT: Well (indiscernible)  
9 line. Maybe we should --

10 KIMBERLY: I'll call him back. Hey, George,  
11 I'll call you back.

12 GEORGE ACEY: Okay.

13 KIMBERLY: Okay. Your office or your cell?

14 GEORGE ACEY: Yes, office.

15 KIMBERLY: Office, okay, thanks. Bye.

16 GEORGE ACEY: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KI6E1L04065094

3 (Crosstalk)

4 MALE PARTICIPANT: NRC, you're on a recorded  
5 line. How can I help you?

6 KATHY BROCK: Hey, it's Kathy from the PMT.  
7 You guys called here, I don't know, maybe a half-hour  
8 ago and said we were expecting a fax from Naval Reactors.

9 MALE PARTICIPANT: Yes, Kathy, we've been  
10 watching -- actually it was going to be an email.

11 KATHY BROCK: Yes.

12 MALE PARTICIPANT: We've been watching the  
13 email and nothing has shown up.

14 KATHY BROCK: All right, good. I haven't  
15 seen anything either and I just wanted to make sure.

16 MALE PARTICIPANT: No, that's okay. We're  
17 just going to continue monitoring our faxes and our email,  
18 but we got the heads up from Dan Dorman, but it comes  
19 from another party.

20 KATHY BROCK: All right, that's fine.

21 MALE PARTICIPANT: But it is coming out of  
22 Naval Reactors, so they may have some other things they  
23 may be refining before they send it.

24 KATHY BROCK: All right, thank you.

25 MALE PARTICIPANT: Okay. Take care, bye.

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KATHY BROCK: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KL6) ) 604065094

3 KATHY BROCK: Protective Measures Team, this  
4 is a recorded line.

5 HEADQUARTERS OPERATIONS OFFICER:  
6 Headquarters Operations Officer --

7 KATHY BROCK: Oh, yes.

8 HEADQUARTERS OPERATIONS OFFICER: -- is this  
9 the correct --

10 KATHY BROCK: Yes, perfect. Thank you. Hey,  
11 there.

12 ED TUPIN: Hi, this is Ed Tupin.

13 KATHY BROCK: Ed, it's Kathy Brock. How  
14 are you?

15 ED TUPIN: Good. Well, I've been better.

16 KATHY BROCK: Oh, I'm sorry. Hang in there.

17 ED TUPIN: Yes. I'm just trying to follow-up  
18 on my 4:00 a.m. with Lou (phonetic) where he said they  
19 were talking that the Navy had some sort of a identification  
20 of radionuclides at like 90 miles from Tokyo --

21 KATHY BROCK: Yes.

22 ED TUPIN: -- or something. Or 90 miles  
23 from the site or outside the thing.

24 KATHY BROCK: Yes.

25 ED TUPIN: And they were thinking about doing

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1 PAGs, that it was like almost next to nothing. And the  
2 last I'd left it with him, there was supposed to be some  
3 sort of a call, and --

4 KATHY BROCK: A call with who, Navy?

5 ED TUPIN: I don't know. He just -- there  
6 was supposed to -- he said well, we'll have a conference  
7 call and it's like around 8:00.

8 KATHY BROCK: We have not had the conference  
9 call with Navy yet, but it's been on my list of things  
10 to do.

11 ED TUPIN: Okay.

12 KATHY BROCK: Because I want to confirm some  
13 of what they've got, but I think based on the phone call  
14 you guys had early this morning, it was decided that  
15 we wouldn't recommend, you know, any changes to the  
16 protective actions --

17 ED TUPIN: Yes, this just didn't look like  
18 it was --

19 KATHY BROCK: -- and I think we still stick  
20 with that.

21 ED TUPIN: Yes, okay. It didn't look like  
22 it was close enough, too, but you know, as I said, I  
23 just was trying to close the loop on that.

24 KATHY BROCK: Right. Well, here's a  
25 question for you, and we were starting to think we should

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1 get some regular phone calls with you and with FDA.  
2 I don't know if Mike Noska is still the guy.

3 ED TUPIN: Okay. Yes, actually well, one  
4 suggestion I would have is the advisory team, which has  
5 EPA, FDA, USDA and CDC on it has regular calls, pretty  
6 much daily.

7 KATHY BROCK: Oh, we need to be on those.

8 ED TUPIN: And you guys would be more than  
9 welcome. Let's see, the call-in number is -- Cc: number,  
10 where is that? Oh where is my call-in number list here?

11 So anyways, the advisory -- if you've ever been on an  
12 advisory team call, it's the same old, same old one that  
13 we use all the time.

14 KATHY BROCK: No, I haven't.

15 ED TUPIN: Okay, it's somewhere in here --  
16 BlackBerry (indiscernible), where did my BlackBerry go  
17 is the question. Who knows where this stuff is -- I  
18 just got back from another meeting that had me out of  
19 the office all morning and I just -- okay, good, back  
20 in here. I'm trying to get myself organized. Where is  
21 that Cc: number?

22 I'm looking in my email. Rather than hanging  
23 on the phone with you over that, let me send it to you,  
24 or to whomever will be appropriate over there.

25 KATHY BROCK: Yes, it would be me.

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1 ED TUPIN: Okay.

2 KATHY BROCK: What time is the call at, do  
3 you know?

4 ED TUPIN: I think 2:00 today. It moves  
5 a little bit depending upon some other things. We're  
6 (b)(5) you know what I mean, so  
7 we try and find empty time slots when people are available.

8 KATHY BROCK: Yes.

9 EDTUPIN: Like the FRPCC is meeting, I think,  
10 at 2:00 tomorrow on a conference call. So we may move  
11 the advisory team call. This says it's at 1:00 but I  
12 thought it was at 2:00 today, and since I'm the chair  
13 of it and I said it was at 2:00 it's going to be at 2:00.

14 KATHY BROCK: All right.

15 ED TUPIN: Okay.

16 KATHY BROCK: Very good.

17 ED TUPIN: It's like every now and then you  
18 just make a --

19 KATHY BROCK: Hey, what I think we want to  
20 do here from NRC is to make sure that, you know, because  
21 if we start getting questions about what do you do with  
22 the food and things like that, that it's not us that's  
23 handling it. It's you guys or FDA as the lead.

24 ED TUPIN: Oh yes, no question. That's  
25 correct.

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1 KATHY BROCK: Okay.

2 ED TUPIN: This is a minor annoyance. I  
3 don't what I did with my BlackBerry. Now that's a problem,  
4 cannot lose your BlackBerry. The reason why I probably  
5 can't find it is I had it out in my hand and I put it  
6 down to do something and, the question is, where did  
7 I put it?

8 KATHY BROCK: Yes. Well you could email  
9 me if you want when you --

10 ED TUPIN: Yes, why don't I email you once  
11 I get into my email and I can --

12 KATHY BROCK: All right, you want to write  
13 down this address, where I'm sitting?

14 ED TUPIN: Hold on, why don't you give me  
15 your address?

16 KATHY BROCK: pmt12.hoc@nrc.gov.

17 ED TUPIN: That's PAPA, MIKE, TANGO, number  
18 12?

19 KATHY BROCK: Yes.

20 ED TUPIN: Okay.

21 KATHY BROCK: Yes.

22 ED TUPIN: Okay.

23 KATHY BROCK: Thanks, Ed.

24 ED TUPIN: All right, I'll send you the  
25 advisory team call-in information shortly.

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KATHY BROCK: Perfect.

ED TUPIN: All right.

KATHY BROCK: Bye.

ED TUPIN: Thanks, Kathryn. Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KL30%604065094

3 KATHY BROCK: Protective Measure Team.

4 HEADQUARTERS OPERATIONS OFFICER: Yes, is  
5 there a Kathy in the PMT?

6 KATHY BROCK: Yes.

7 HEADQUARTERS OPERATIONS OFFICER: Yes, this  
8 is Vince and I'm the HOO. Hey, my apologies. I've tried  
9 to -- you're Kathy, right?

10 KATHY BROCK: Yes.

11 HEADQUARTERS OPERATIONS OFFICER: I've  
12 tried to talk to Dan Dorman and call him up the last  
13 couple hours. His line is continually busy. He's taking  
14 over for Casto, so maybe events have changed or what  
15 have you.

16 KATHY BROCK: Oh, he went over -- he's the  
17 one that went over.

18 HEADQUARTERS OPERATIONS OFFICER: Yes.

19 KATHY BROCK: All right.

20 HEADQUARTERS OPERATIONS OFFICER: Yes, and  
21 he's the one that called from Tokyo.

22 KATHY BROCK: Oh.

23 HEADQUARTERS OPERATIONS OFFICER: He just  
24 called just a couple hours ago. That's when I called  
25 you shortly after and basically the message was, hey

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1 Vince, there's a fax coming over from Naval Reactors  
2 shortly, and things may have changed for all I know.

3 KATHY BROCK: Okay.

4 HEADQUARTERS OPERATIONS OFFICER: His line  
5 has been busy continually, so I'm just assuming that  
6 he's --

7 KATHY BROCK: He can't be reached.

8 HEADQUARTERS OPERATIONS OFFICER: --  
9 immersed in the events at this moment.

10 KATHY BROCK: All right, thank you.

11 HEADQUARTERS OPERATIONS OFFICER: If  
12 anything comes up, you know, we're going to let you know  
13 real quick.

14 KATHY BROCK: All right, I appreciate it.

15 HEADQUARTERS OPERATIONS OFFICER: Take  
16 care.

17 KATHY BROCK: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KMD%#\_04065094

3 KATHY BROCK: Protective Measures Team.

4 HEADQUARTERS OPERATIONS OFFICER: Oh,  
5 Headquarters Operations Office, I have on the other line  
6 an individual from the CDC.

7 KATHY BROCK: Okay, great. Hi, this is Kathy  
8 Brock with the Protective Measures Team.

9 BOB WHITCOMB: Hey, Kathy. This is Bob  
10 Whitcomb down here at CDC. How are you?

11 KATHY BROCK: Fine, how are you? I haven't  
12 talked to you in a long time.

13 BOB WHITCOMB: I know. I don't know if you're  
14 anywhere close to Trish Milligan --

15 KATHY BROCK: She's not working today.  
16 We're on the same team, so if --

17 BOB WHITCOMB: I thought so. I thought that  
18 was the case. Well here's a question. You know, we've  
19 been working these KI issues now, as you have too I know.

20 KATHY BROCK: Yes.

21 BOB WHITCOMB: I remember, I worked with  
22 you and Trish on this KI best practices thing for kind  
23 of assessing all the States' distribution and policies  
24 concerning KI.

25 KATHY BROCK: Yes.

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1 BOB WHITCOMB: And I can't find that document,  
2 but what I'm trying to answer for one of the docs here  
3 is do any of the states require the individual, when  
4 given -- handed a packet of KI, are they asked to sign  
5 a consent form. I don't remember that in any states  
6 if remember dealing with. There's no consent for KI,  
7 is there.

8 KATHY BROCK: So, a consent --

9 BOB WHITCOMB: A consent --

10 KATHY BROCK: -- but by the person, that  
11 they consent to take this at their own risk kind of a  
12 thing?

13 BOB WHITCOMB: They consent to take on this  
14 KI at their own risk for use, with instructions on how  
15 to use it. I know most of them are given instructions,  
16 but is there a consent form.

17 KATHY BROCK: I can ask --

18 BOB WHITCOMB: Or anything they have to sign  
19 whatsoever when they receive it.

20 KATHY BROCK: Okay, I can -- I don't know  
21 the answer but we have people in touch with states that  
22 I can send the question along.

23 BOB WHITCOMB: Okay. Well, I didn't want  
24 to bug a bunch of people about it. I just didn't know  
25 if you had an offhand idea if that ever --

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1 KATHY BROCK: I don't have an offhand idea.

2 BOB WHITCOMB: Yes, or is consent implied  
3 in any of that?

4 KATHY BROCK: Okay. We'll ask the question.

5 BOB WHITCOMB: You know, I don't know where  
6 this may end up getting us, but I don't ever remember  
7 it, and I did not see it in the California plan that  
8 I had here saved from our work, you know, back in 2008  
9 I believe it was.

10 KATHY BROCK: Yes. Oh, what's your email  
11 address?

12 BOB WHITCOMB: It is B as in Bob, Y as in  
13 Yankee, W as in Whiskey, the number 3, and cdc.gov,  
14 byw3@cdc.gov.

15 KATHY BROCK: I miss our short email  
16 addresses.

17 BOB WHITCOMB: Well, I have the -- that one  
18 still works and I like to keep it short, otherwise it's  
19 just rwhitcomb@cdc.gov if that one doesn't work.

20 KATHY BROCK: Okay, that'll be fine. You  
21 know, I was talking to Tupin a little while ago and he  
22 was supposed to email me the code for the conference  
23 call you guys are having at 2:00.

24 BOB WHITCOMB: Oh, the advisory team one?

25 KATHY BROCK: Yes, because I was going to

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1 call, really all of you today just to sort of connect  
2 because we're starting to get questions about food and  
3 what do you do.

4 BOB WHITCOMB: Yes.

5 KATHY BROCK: And we want to make sure that  
6 we're, you know, in line with what you guys are doing  
7 and that you guys have the lead. And I say you guys  
8 meaning whoever it is.

9 BOB WHITCOMB: Okay.

10 KATHY BROCK: I think it's EPA, FDA. So

11 --

12 BOB WHITCOMB: Well, now --

13 KATHY BROCK: -- he invited us to be on that  
14 call and then he didn't -- it's still early. It's only  
15 11:00.

16 BOB WHITCOMB: Okay.

17 KATHY BROCK: But I thought I'd ask you since  
18 I've got you on the line if you have the number?

19 BOB WHITCOMB: Well, let me get -- I don't  
20 have Ed's number, but let me give you the number here  
21 at REOC. You can triage and ask for anybody from CDC  
22 through this number I'm about to give you. It's  
23 770-488-7100.

24 KATHY BROCK: But do you have -- and I  
25 appreciate that. Do you have the number for the advisory

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1 team call that will happen today?

2 BOB WHITCOMB: Let me see. I've got Lynn  
3 Evans is running that for me. Let me see if she has  
4 sent me anything for that today. I got 15 different  
5 things that are overlapping and I'm not making any of  
6 them today.

7 KATHY BROCK: You know what, join the club.  
8 It's the same thing.

9 BOB WHITCOMB: Advisory team, I've got it.

10 KATHY BROCK: Okay.

11 BOB WHITCOMB: It is in there.

12 KATHY BROCK: Okay.

13 BOB WHITCOMB: Open this occurrence. Here  
14 you go.

15 KATHY BROCK: Yes.

16 BOB WHITCOMB: Phone number, 866-561-4509,  
17 pass code, (b)(6)

18 KATHY BROCK: Great, we're going to call  
19 in. Thank you.

20 BOB WHITCOMB: Okay. And it looks like it's  
21 schedule for all week, the same time.

22 KATHY BROCK: Good, 2:00

23 BOB WHITCOMB: From what I can gather here.

24 KATHY BROCK: All right, we'll call in.

25 BOB WHITCOMB: Great.

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1 KATHY BROCK: And I'll get the people that  
2 are connected with the states to see if they can find  
3 the answer for you.

4 BOB WHITCOMB: Yes, and if you can't reach  
5 me, Dr. Jeffrey Nemhauser is our M.D. here that wrote  
6 all of our KI information. You can surely contact him  
7 too in addition. And I think -- what's your user I.D.  
8 for your email?

9 JEFFREY NEMHAUSER: jfn1.

10 BOB WHITCOMB: j-f-n-1 --

11 KATHY BROCK: Okay.

12 BOB WHITCOMB: -- at cdc.gov.

13 KATHY BROCK: Great.

14 BOB WHITCOMB: Okay.

15 KATHY BROCK: Thank you.

16 BOB WHITCOMB: Good deal. Take care.

17 KATHY BROCK: You, too.

18 BOB WHITCOMB: All right, bye-bye.

19 KATHY BROCK: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KMPK\$604065094

3 KATHY BROCK: Protective Measures Team.

4 OPERATOR: I have Dr. Parker on the other  
5 line.

6 KATHY BROCK: Okay. Dr. Parker?

7 DR. ROY PARKER: Yes?

8 KATHY BROCK: Hi, this is Kathy Brock,  
9 Protective Measure Team. It's a recorded line.

10 DR. ROY PARKER: Hello, Kathy.

11 KATHY BROCK: Hey. What can I help you with?

12 DR. ROY PARKER: I'm calling to see, is Bruce  
13 Watson or Michelle Hart available?

14 KATHY BROCK: Actually, we're all on a  
15 conference call right now. Do you think it would be  
16 okay if we called you back in a little bit?

17 DR. ROY PARKER: I would appreciate it.

18 KATHY BROCK: All right. Let me get your  
19 contact information from you again.

20 DR. ROY PARKER: (b)(6)

21 KATHY BROCK: All right. We'll give you  
22 a buzz in a little bit.

23 DR. ROY PARKER: Thank you.

24 KATHY BROCK: Thanks, bye.

25  
26

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1 (CONFERENCE CALL INITIATED)

2 0%KOV!@\_04065094

3 KATHY BROCK: Protective Measures.

4 OPERATOR: Hi, I've got somebody from NOAA  
5 for you.

6 KATHY BROCK: NOAA, okay.

7 OPERATOR: Here you go.

8 KATHY BROCK: This is Protective Measures,  
9 Kathy Brock.

10 JOE CARR: This is Joe Carr at the SDM desk  
11 at NCEP --

12 KATHY BROCK: Hi there.

13 JOE CARR: -- NOAA, if you will. We had  
14 gotten a call from David Brown over the weekend from  
15 --

16 KATHY BROCK: Oh, yes (indiscernible).

17 JOE CARR: -- Protective Measures.

18 KATHY BROCK: Yes.

19 JOE CARR: And I guess he was asking about  
20 some missing MET data that you guys needed?

21 KATHY BROCK: Yes, you know what, I need  
22 to get you to our meteorologist.

23 JOE CARR: Okay.

24 KATHY BROCK: Hang on please.

25 MIKE MAZAIKA: Hello?

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1 JOE CARR: Hi there. This is Joe Carr at  
2 the SDM desk at NCEP.

3 MIKE MAZAIKA: I'm sorry, I missed that.

4 JOE CARR: Oh, sorry. This is Joe Carr at  
5 the SDM desk at NCEP.

6 MIKE MAZAIKA: Okay.

7 JOE CARR: David Brown had called us over  
8 the weekend --

9 MIKE MAZAIKA: Yes.

10 JOE CARR: -- and was requesting some MET  
11 data, and we're just responding back to his request.  
12 I'm not quite sure what he was actually looking for.

13 MIKE MAZAIKA: Well, what we've been  
14 struggling here with is to get data from the site, actual  
15 data. Now we're seeing some information from onsite  
16 radiation monitoring, they're doing concurrent MET  
17 measurements, and we were trying to fill in a period  
18 on the 13th and 14th. Are you guys generating just model  
19 output as opposed to actuals?

20 JOE CARR: Yes, that's right. That's all  
21 we're doing is generating a model output.

22 MIKE MAZAIKA: Okay.

23 JOE CARR: Are you looking for just surface  
24 observations?

25 MIKE MAZAIKA: Yes.

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1 JOE CARR: Okay, because there is a site  
2 on the Web for Fukushima Airport.

3 MIKE MAZAIKA: Yes, we've looked at that.  
4 I've gotten on the -- oh, my name is Mike Mazaika by  
5 the way, sorry.

6 JOE CARR: Hey, Mike.

7 MIKE MAZAIKA: We were foiling around at  
8 the very beginning trying to find data and I got on the  
9 JMA's Web site, the Japan Meteorological Agency. I guess  
10 that's our National Weather Service.

11 JOE CARR: Yes.

12 MIKE MAZAIKA: And several of their stations  
13 along the coast were either wiped out or became inoperable.  
14 We found data from Sendai, which is about 60 miles to  
15 the north in Ohyama --

16 JOE CARR: Yes.

17 MIKE MAZAIKA: -- which is about 35 miles  
18 south. They've been reporting fairly steadily, and  
19 there's actually a surface station at Soma, which is  
20 about 30 miles north of the facility that has begun  
21 reporting speed direction, temperature --

22 JOE CARR: Okay.

23 MIKE MAZAIKA: -- precip. So, Fukushima  
24 I was really reluctant to use, although some people have  
25 advised on it. There's Fukushima City, Fukushima Airport

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1 which is not in the same location --

2 JOE CARR: Right.

3 MIKE MAZAIKA: -- and their elevations are  
4 not really representative of what's at the site because  
5 there's -- I guess you've been running the models and  
6 I'm assuming you take into account topography.

7 JOE CARR: Yes, we're going right at the  
8 lat/lon of the reactor site.

9 MIKE MAZAIKA: Yes, I pulled up some of the  
10 maps from JMA's Web site for wind parameters and all  
11 you have to look -- within the same Prefecture, they're  
12 just all over the place because of the terrain I'm sure.

13 So unless you had a high wind condition, and even then,  
14 I wouldn't necessarily expect Fukushima to be  
15 representative of what's going on at the site.

16 JOE CARR: Okay.

17 MIKE MAZAIKA: But, to recap, you're just  
18 generating model --

19 JOE CARR: Yes, I mean we don't have any  
20 -- the only access to MET data that we have is basically  
21 what's out there on the Web.

22 MIKE MAZAIKA: Right.

23 JOE CARR: Now, are you -- there is another  
24 data source and I don't know if they have -- I've got  
25 to look at this email real quick and see if they have

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1 MET data. I don't know if you're on the DOE mailing  
2 list or not.

3 MIKE MAZAIKA: Yes, I don't know.

4 JOE CARR: Okay. DOE is sending their  
5 response out, but I don't know if DOE has got -- I'm  
6 assuming DOE has got folks on the ground.

7 MIKE MAZAIKA: Yes, I'm not sure exactly  
8 where they are. I mean at one point we were communicating  
9 directly with JMA to see if they had dispatched teams  
10 to make measurements to support the assessment operation  
11 in the vicinity of the site and they said no.

12 JOE CARR: Okay.

13 MIKE MAZAIKA: So I guess they have people  
14 going out trying to resurrect some of the sites if they  
15 can.

16 JOE CARR: Okay. Yes, we don't have anything  
17 else though.

18 MIKE MAZAIKA: Right. Are you the folks  
19 that generate the high-split model output that we see?

20 JOE CARR: Yes.

21 MIKE MAZAIKA: Okay.

22 JOE CARR: Yes.

23 MIKE MAZAIKA: Okay, yes. I was just looking  
24 at that with one of the fellows that providing support.

25 JOE CARR: Yes, I mean we're using basically

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1 Fukushima Airport --

2 MIKE MAZAIKA: Okay.

3 JOE CARR: -- as our basis. That's as good  
4 as we can get.

5 MIKEMAZAIKA: Right. Did you look at Sendai  
6 at all, or how big of an area can you use to initialize?

7 JOE CARR: Well, we don't initialize. The  
8 initialization occurs off the modeling world itself.  
9 You know, it goes off of the TDS (phonetic) analysis.

10 MIKE MAZAIKA: Yes.

11 JOE CARR: You know, they assimilate a data  
12 off the model. So it takes every ob into account; you  
13 know, all the aircraft observations, all the surface  
14 observations and soundings and all that good stuff.

15 MIKE MAZAIKA: Okay.

16 JOE CARR: So it's not necessarily waiting  
17 in any one ob.

18 MIKE MAZAIKA: Yes, I noticed on JMA's Web  
19 site that there are a few coastal sonar stations too.  
20 Is that some of the information you have access to?

21 JOE CARR: We actually haven't even been  
22 to JMA's site because again, we don't do too much with  
23 needing data right at the site.

24 MIKE MAZAIKA: Right.

25 JOE CARR: So --

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1 MIKE MAZAIKA: Oh, well this is at one of  
2 their observatories or their bigger MET monitoring  
3 stations in their network, so.

4 JOE CARR: Okay. Yes, I mean we write  
5 basically a forecast, you know, an analysis of what's  
6 going on weather wise and then a forecast. So we've  
7 just been using Fukushima's Airport.

8 MIKE MAZAIKA: Okay. Yes, what we were  
9 chasing down is real data as opposed to forecast, but  
10 now I guess they're trying to reconstruct certain events  
11 that happened over the last week or so.

12 JOE CARR: Okay.

13 MIKE MAZAIKA: Now Joe, how do you spell  
14 your last name?

15 JOE CARR: Carr, C-A-R-R.

16 MIKE MAZAIKA: C-A-R-R?

17 JOE CARR: Yes.

18 MIKE MAZAIKA: Okay. And you're with NOAA  
19 and Carr?

20 JOE CARR: No, NOAA NCEP.

21 MIKE MAZAIKA: NCEP.

22 JOE CARR: SDM, Senior Duty Meteorologist.

23 (Crosstalk)

24 MIKE MAZAIKA: Okay. I just did the shift  
25 change. It was from me to Dave Brown and now back to

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1 me this morning, so I'll get with David and let him know  
2 that we spoke.

3 JOE CARR: Okay.

4 MIKE MAZAIKA: And what we discussed.

5 JOE CARR: Okay. What was your name? Mike

6 --

7 MIKEMAZAIKA: MikeMazaika, easyLithuanian  
8 name.

9 JOE CARR: Okay.

10 MIKE MAZAIKA: M-A-Z-A-I-K-A.

11 JOE CARR: Okay.

12 MIKE MAZAIKA: And I'm one of the NRC  
13 Protective Measure Team Meteorologists.

14 JOE CARR: Okay, great. All right, well,  
15 if there's anything else we can help you with -- sorry  
16 we couldn't help you with this one.

17 MIKE MAZAIKA: No, that's okay.

18 JOE CARR: You know who's a good source?  
19 I don't know if you're familiar with NCDC, National  
20 Climatic Data Center.

21 MIKE MAZAIKA: Yes.

22 JOE CARR: They have, you know, they archive  
23 all of the data --

24 MIKE MAZAIKA: Yes.

25 JOE CARR: -- from every ob, so they might

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1 have something.

2 MIKE MAZAIKA: Yes.

3 (Crosstalk)

4 MIKE MAZAIKA: Okay, well --

5 JOE CARR: All right. Well, good luck.

6 MIKE MAZAIKA: Well, I appreciate the call  
7 back. Thanks, Joe.

8 JOE CARR: Okay, no problem.

9 MIKE MAZAIKA: Have a good one.

10 JOE CARR: Bye-bye.

11 MIKE MAZAIKA: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KS!N0604065094

3 MALE PARTICIPANT: Have you seen this one?

4 KATHY BROCK: There's a lot of people that  
5 ignore me, so you should get used to doing that.

6 MALE PARTICIPANT: (Indiscernible).

7 KATHY BROCK: Why isn't it ringing?

8 AUTOMATED MESSAGE: Welcome to the  
9 conference calling center. At any time during this  
10 message, please enter your pass code followed by the  
11 pound sign.

12 Your pass code has been confirmed. If you  
13 need technical assistance during your call, press star  
14 zero. After the tone, please state your name followed  
15 by the pound sign.

16 KATHY BROCK: Kathy Brock, NRC.

17 AUTOMATED MESSAGE: There are 19 parties  
18 in conference including you.

19 (Crosstalk)

20 ED TUPIN: I've got a few folks here at EPA  
21 around the table. Just for your information, red is  
22 on. If you get a red light your mic is live and it's  
23 not your off, just for your information.

24 MALE PARTICIPANT: Okay.

25 ED TUPIN: I'm still hearing beeping in so

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1 I thought I'd give it just a couple of minutes to see  
2 how close to quorum we are. From the number of beeps,  
3 I'm sure we're well in excess of a quorum.

4 CHARLES (phonetic): I didn't know we had  
5 a quorum, Ed.

6 ED TUPIN: Well a quorum is enough people  
7 to do business.

8 CHARLES: Oh, okay.

9 ED TUPIN: I mean to take --

10 (Crosstalk)

11 MALE PARTICIPANT: That's good.

12 ED TUPIN: Charles, is that you?

13 CHARLES: Yes.

14 ED TUPIN: Good afternoon, sir. How are  
15 you?

16 CHARLES: Good.

17 MALE PARTICIPANT: Well hold on.

18 ED TUPIN: Yes. Question beginning, Jeff  
19 Sincek, are you on?

20 JEFF SINCEK: Yes, sir, I'm here.

21 ED TUPIN: Great. Per our discussions from,  
22 I think it was yesterday but I'm not sure, can you try  
23 and keep track of what all goes on in this call, please?

24 JEFF SINCEK: Okay, no problem.

25 ED TUPIN: Thank you, sir.

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1 MIKE BOYD: Jeff and Ed, I apologize but  
2 I had no time to circle back on that with Jeff. So,  
3 unless somebody else had talked to you, Jeff, I'm sure  
4 this is catching you cold (phonetic).

5 JEFF SINCEK: I talked to Ed about it  
6 yesterday. Bill Cunningham gave me a heads up.

7 MIKE BOYD: Okay, great. Thank you.

8 ED TUPIN: And Bill took care of your light  
9 work, Mike. Thank him.

10 MIKE BOYD: Thank you everyone.

11 ED TUPIN: And Jeff and I had a very, very  
12 pleasant, informative conversation yesterday afternoon.

13 MIKE BOYD: Okay, great.

14 CHARLES: You're among friends, Mike.

15 ED TUPIN: Yes, evening or sometime like  
16 that. I forget when it was, 6:00ish, something like  
17 that. I don't remember. The days and nights are kind  
18 of boring together.

19 MIKE BOYD: Really.

20 MALE PARTICIPANT: Yes.

21 ED TUPIN: When I'm working at both 4:00s,  
22 it's sort of irrelevant. Okay. I think that's enough  
23 time. I've heard enough beeps. First I'm going to start  
24 here at EPA with who's around the table. This is Ed  
25 Tupin, and we've got --

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1 MIKE BOYD: Mike Boyd.  
2 MALE PARTICIPANT: (Indiscernible).  
3 JOHN CARDARELLI: John Cardarelli.  
4 (Crosstalk)  
5 ED TUPIN: Okay. CDC --  
6 (Crosstalk)  
7 CHARLES: Somebody let Cardarelli on this?  
8 JOHN CARDARELLI: Yes. They let everybody  
9 on this thing nowadays.  
10 GENE JABLONOWSKI,: Yes, Gene Jablonowski,  
11 Region 5.  
12 ED TUPIN: Okay, Gene. Yes, anybody else  
13 from EPA besides Gene? Sorry about that. I think that  
14 should be it. All right. CDC down in Atlanta, and then  
15 the rest of the CDC and --  
16 MALE PARTICIPANT: That's affirmative.  
17 LYNN EVANS: Lynn Evans, CDC.  
18 JOHN DIXON: John Dixon.  
19 BEN THRASKY (phonetic): Ben Thrasky, CDC.  
20 JERI ANDERSON: Jeri Anderson, NIOSH.  
21 TIM TAULBEE: Tim Taulbee, NIOSH.  
22 JENNIFER HORNSBY-MYERS: Jennifer  
23 Hornsby-Myers, NIOSH.  
24 SAM KEITH: Sam Keith, ATSDR.  
25 CHERYL KINALL (phonetic): Cheryl Kinall,

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1 ATSDR.

2 MIKE BROOKS: Mike Brooks, ATSDR.

3 ED TUPIN: Charles, did you make it?

4 CHARLES: Yes, I'm here.

5 ED TUPIN: Excellent. All right.

6 CHARLES: I'm not sure where I'm, you know,  
7 I'm not sure whether I'm from CDC, the White House or  
8 who, wherever, but --

9 MIKE BOYD: Oh, okay. All of the above.

10 CHARLES: Yes.

11 ED TUPIN: Food and Drug?

12 MIKE NOSKA: Mike Noska.

13 BILL CUNNINGHAM: Bill Cunningham, David  
14 Anderson.

15 (Crosstalk)

16 TERRI JONES: Terri Jones.

17 KAREN SMALLWOOD: Karen Smallwood.

18 GEORGE ALLEN: George Allen.

19 JEFF SINCEK: Jeff Sincek.

20 ED TUPIN: USDA?

21 GORDON CLEVELAND: Gordon Cleveland.

22 PETE THADDEN (phonetic): Pete Thadden.

23 SCOTT LOHRKE: Scott Lohrke.

24 RON GRAHAM: Zack (phonetic) and Ron Graham  
25 here.

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1 ED TUPIN: Okay, anybody else? Anybody I  
2 haven't named or called in or --

3 KATHY BROCK: Kathy Brock from NRC.

4 ED TUPIN: Oh, thanks Kathy. I'm glad you  
5 --

6 KATHY BROCK: Hey, by the way I just realized  
7 I called from a recorded line. Do you want me to hang  
8 up and call from a different phone.

9 ED TUPIN: If you don't mind.

10 KATHY BROCK: Yes, all right. I'll sign  
11 off and sign back on.

12 ED TUPIN: Thank you.

13 KATHY BROCK: Bye.  
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1 (CONFERENCE CALL INITIATED)

2 0%KT1(HL04065094

3 KATHY BROCK: Protective Measures Team.

4 OPERATOR: I have Dr. Parker on the line  
5 for you.

6 KATHY BROCK: Oh, yes. Just a minute. Dr.  
7 Parker?

8 DR. ROY PARKER: Yes.

9 KATHY BROCK: Hi. I'm sorry, this is Kathy  
10 Brock. We've been busy. Somebody didn't get back to  
11 you?

12 DR. ROY PARKER: I never heard from anybody.

13 KATHY BROCK: All right. Can you tell me  
14 what your question is and I can either answer it or pass  
15 it on.

16 DR. ROY PARKER: Okay. First off, I'm  
17 working with both the FedEx Express and UPS.

18 KATHY BROCK: Yes.

19 DR. ROY PARKER: The question in this case  
20 is we're of course receiving somewhere to the south,  
21 twice the airborne contamination levels.

22 KATHY BROCK: Who said that?

23 DR. ROY PARKER: Pardon?

24 KATHY BROCK: Who said there were two times  
25 airborne levels?

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1 DR. ROY PARKER: I did because I'm looking  
2 at the data, as if -- from what it has been. So what  
3 I'm looking for is -- the so-called smoke that has been  
4 reported, can anybody tell me what that is?

5 KATHY BROCK: No, we don't know what it is  
6 here.

7 DR. ROY PARKER: You don't know what it is  
8 either?

9 KATHY BROCK: No.

10 DR. ROY PARKER: So, you don't know whether  
11 it was a vent, purposeful vent, or something else.

12 KATHY BROCK: No.

13 DR. ROY PARKER: Okay, that would be helpful.

14 KATHY BROCK: No.

15 DR. ROY PARKER: The second thing then is  
16 this reports about the Chinese refusing cargo from all  
17 Nippon Airlines, and finding, "significant levels".  
18 Do we have any details on that?

19 KATHY BROCK: I have not heard that one bit.  
20 What I think I need for you to do is talk with our liaison  
21 team because they keep track of those things, and if  
22 an action comes along they send it to us to review.  
23 But I've not heard anything about that.

24 DR. ROY PARKER: Yes. There was a  
25 significant spike in the airborne emissions --

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1 KATHY BROCK: Yes.

2 DR. ROY PARKER: -- outside the thing. At  
3 least one-and-a-half to two-times what it was early part  
4 of last week.

5 KATHY BROCK: Okay.

6 DR. ROY PARKER: And the current readings  
7 are showing, oh basically two or three times, or maybe  
8 not --

9 KATHY BROCK: Whose readings are they?

10 DR. ROY PARKER: Pardon?

11 KATHY BROCK: Whose readings are they?

12 DR. ROY PARKER: The Japanese.

13 KATHY BROCK: Okay.

14 DR. ROY PARKER: I'm getting it straight  
15 off the Web site.

16 KATHY BROCK: Okay.

17 DR. ROY PARKER: And, so basically one of  
18 the things that's happening is, of course, both groups,  
19 the pilots are putting out the advisories to the pilots  
20 and stuff like that, and I keep trying to keep them calm  
21 but I would sure like some information so we can get  
22 them.

23 KATHY BROCK: Okay.

24 DR. ROY PARKER: Then the second thing is  
25 the (indiscernible) so-called refusal in Japan, saying

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1 that they were refusing cargo in significant levels which  
2 could be a media term, I know, sort of thing. That's  
3 the other thing I'm trying to look into.

4 KATHY BROCK: Okay. What I need to do is  
5 get you to our Office of Public Affairs. I was just  
6 getting whispered the right answer. They can help you  
7 with this, okay? And I'm going to apologize in advance;  
8 I don't know how -- I can't transfer you from here.

9 Could you call back at 301-816-5100 and ask  
10 for OPA?

11 DR. ROY PARKER: OPA?

12 KATHY BROCK: Yes.

13 DR. ROY PARKER: And what is OPA?

14 KATHY BROCK: Office of Public Affairs, they  
15 have a team here in the operations center.

16 DR. ROY PARKER: Okay. All right.

17 KATHY BROCK: Okay, thanks.  
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1 (CONFERENCE CALL INITIATED)

2 0%KT6BFL04065094

3 (Crosstalk)

4 KATHY BROCK: EPA, CDC, USDA, FDA.

5 OPERATOR: NRC Operations, this is a  
6 recorded line. May I help you?

7 KATHY BROCK: Yes, hi. It's Kathy Brock  
8 from the PMT. I'm wondering if you can help us with  
9 a caller named Dr. Roy Parker. He's from FedEx. When  
10 he calls, do you think you could deliver him to the Public  
11 Affairs group and not back to the Protective Measures  
12 Team?

13 OPERATOR: I would be more than happy to  
14 give Dr. Roy to Public Affairs instead of you guys.

15 KATHY BROCK: Good. Thank you so much. And  
16 he should be calling back. I just got done talking to  
17 him and told him to call back to you guys to go to OPA.

18 OPERATOR: Okay.

19 KATHY BROCK: But we don't need him back  
20 here.

21 OPERATOR: We're satisfied to help you with  
22 that request.

23 KATHY BROCK: Thank you.

24 OPERATOR: You're welcome.

25

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1 (CONFERENCE CALL INITIATED)

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3 KATHY BROCK: Protective Measures Team.

4 OPERATOR: Yes, I have Trish Milligan on  
5 the other line who wants to talk to somebody over there.

6 KATHY BROCK: All right, we'll take it.

7 OPERATOR: All right, thanks.

8 KATHY BROCK: Trish Milligan, how are you  
9 doing?

10 TRISH MILLIGAN: Good, how are you? Hey,  
11 listen, there's a phone call at 3:00 I'm going to jump  
12 on, but it's kind of interesting. I think somebody from  
13 PMT should also be on. It's run by Health Effects Policy  
14 Japan Working Group. Jesus, God do we have -- anyway,  
15 all these people from DHS and the White House and everything  
16 else, and I'm the only person I see on here from NRC.

17 And it's talking about all those measures  
18 that are being put in place, food PAGs for example,  
19 screening passengers, those kinds of things.

20 KATHY BROCK: Yes, if you can just cover  
21 it because we're doing the shift change now.

22 TRISH MILLIGAN: Okay.

23 KATHY BROCK: And we just spent an hour  
24 listening to Ed Tupin, et al., (b)(5)

25 TRISH MILLIGAN: About what?

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1 KATHY BROCK: Well, what I was trying to  
2 do is I was trying to turn them on to the fact that we're  
3 just kind of doing dose recommendations for our PARs.

4 That if we get to food and other information like that  
5 that it's not the NRC lead.

6 TRISH MILLIGAN: Right.

7 KATHY BROCK: And what they told us was that  
8 EPA has not been asked for any PAG recommendations for  
9 Americans --

10 TRISH MILLIGAN: (b)(5)

11 (b)(5)

12 KATHY BROCK: -- and they've not made any.  
13 So, I think we're going to try to keep going on that  
14 call every day. The problem is, it lasted an hour and  
15 we tuned out 40 minutes ago.

16 TRISH MILLIGAN: What call was it?

17 KATHY BROCK: It was EPA advisory team.

18 TRISH MILLIGAN: Oh, yes, okay. Is it EPA  
19 advisory team, or the --

20 KATHY BROCK: Well, it's an advisory team  
21 and EPA leads it.

22 TRISH MILLIGAN: Oh, I thought Ed was for  
23 FDA. No, I guess he was for EPA now. Yes, okay.

24 KATHY BROCK: So is this 3:00 call the White  
25 House call?

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1 TRISH MILLIGAN: Yes, it is.

2 KATHY BROCK: (b)(5)

3 (b)(5)

4  
5  
6 TRISH MILLIGAN: Okay.

7 KATHY BROCK: -- (b)(5)

8 TRISH MILLIGAN: Right, okay. So let me  
9 just dive on this thing while I'm sitting here working  
10 on my paper to prove EPA wrong --

11 KATHY BROCK: Okay, good.

12 TRISH MILLIGAN: -- on some issues. And  
13 then if there's anything, I'll just send a note out.  
14 What's the email address there?

15 KATHY BROCK: pmt12.

16 TRISH MILLIGAN: At what?

17 KATHY BROCK: pmt12.hoc@nrc.gov.

18 TRISH MILLIGAN: Okay, that way people can  
19 have it if they need it.

20 KATHY BROCK: Yes, and poor Dan Barss just  
21 got here for his first shift ever.

22 TRISH MILLIGAN: Oh, God. Okay.

23 KATHY BROCK: Yes, I know.

24 TRISH MILLIGAN: Poor thing. Okay.

25 KATHY BROCK: See you.

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TRISH MILLIGAN: Talk to you later, bye.

KATHY BROCK: Bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KW##0604065094

3 DAN BARSS: NRC, it's Dan.

4 OPERATOR: Hello, Dan, I've got John  
5 Nasstrom from NARAC on the line. I'd like to connect  
6 you.

7 DAN BARSS: Sure.

8 OPERATOR: Okay.

9 (Crosstalk)

10 DAN BARSS: John?

11 JOHN NASSTROM: Hi, John Nasstrom here.

12 DAN BARSS: Hi, John, Dan Barss at the NRC.

13 JOHN NASSTROM: Hey, Dan. I just wanted  
14 to follow-up on something. You guys double checked some  
15 super core inventories for us we sent earlier.

16 DAN BARSS: I'm sorry, I have two things  
17 being said. Say it again.

18 JOHN NASSTROM: Yes, we asked you to verify  
19 some super core inventories that we were looking for  
20 another set of 20 nuclides, and I just want to thank  
21 you guys for giving us that.

22 DAN BARSS: Okay.

23 JOHN NASSTROM: Actually, I'll fill you in  
24 Gail (phonetic).

25 DAN BARSS: Are you still there?

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1 JOHN NASSTROM: Yes, sorry. I got  
2 distracted.

3 DAN BARSS: Oh, yes.

4 JOHN NASSTROM: Yes, so you guys had verified  
5 some inventories. We were looking for a new list of  
6 20 nuclides that came out of the super core inventory  
7 and you double checked them for us and you said our totals  
8 are correct. So, is there someone there that worked  
9 on that?

10 DAN BARSS: A Michelle Hart I think worked  
11 on that and she has already left.

12 JOHN NASSTROM: Okay. So, I just wanted  
13 to let you know that what we were looking for is to see  
14 how much more dose would we get from that 20 nuclide  
15 list than we had gotten from using 16 nuclides that  
16 you had sent us earlier.

17 That's the top dose contributors for plume  
18 passage, so we were looking at maybe adding one nuclide  
19 that may have made a difference. It only made a factor  
20 of increase 50 percent, the total dose, but that didn't  
21 change our answers that we were providing. So,  
22 it turned out it was helpful. It was a good analysis,  
23 though it didn't change our answer and that was what  
24 we were hoping for.

25 DAN BARSS: Okay.

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1 JOHN NASSTROM: So, I just wanted people  
2 there to be aware of that in case they were wondering  
3 what we had concluded from that.

4 DAN BARSS: Okay.

5 JOHN NASSTROM: Okay.

6 DAN BARSS: So --

7 JOHN NASSTROM: Thanks a lot.

8 DAN BARSS: -- you ran the numbers and no  
9 change?

10 JOHN NASSTROM: Well, there is a change but  
11 it went up from, you know, it was still in the 1 rem  
12 range which is an early phase PAG --

13 DAN BARSS: Yes.

14 JOHN NASSTROM: -- so as long as we're in  
15 the 1 rem range, it wouldn't change any decisions about  
16 early phase PAGs.

17 DAN BARSS: Okay.

18 JOHN NASSTROM: That's the main conclusion.

19 DAN BARSS: Okay.

20 JOHN NASSTROM: All right, thanks.

21 DAN BARSS: Thank you.

22 JOHN NASSTROM: Okay, bye-bye.

23 DAN BARSS: Yes, bye.  
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1 (CONFERENCE CALL INITIATED)

2 0%KW(LM604065094

3 DAN BARSS: NRC, this is Dan.

4 OPERATOR: Hello, Dan. I've got Dave  
5 McIntyre from OPA on the line.

6 DAN BARSS: Okay.

7 OPERATOR: (Indiscernible).

8 DAN BARSS: Hello?

9 DAVE MCINTYRE: Hi, is this PMT?

10 DAN BARSS: Yes, this is Dan Barss.

11 DAVE MCINTYRE: Oh, hi. This is Dave  
12 McIntyre from Public Affairs.

13 DAN BARSS: Okay.

14 DAVE MCINTYRE: I was trying to reach Don  
15 Cool. Is here there?

16 DAN BARSS: Yes, he was. I don't see him  
17 right now. Let me see. He was sitting just here just  
18 a little bit ago. I know he said at 4:00 he had some  
19 commitment with you folks I believe.

20 DAVE MCINTYRE: Yes, I was trying to get  
21 him to explain RAADs and the sieverts to somebody.

22 DAN BARSS: Yes, he was going to come do  
23 that, or go do that, but I thought he said he was going  
24 there, not that you were to call here.

25 DAVE MCINTYRE: Maybe he's on his way to

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1 my office or his office.

2 DAN BARSS: I suspect that's the case.

3 DAVE MCINTYRE: Okay. Hold on, this might  
4 be him. Dave McIntyre. Okay, hold on a second. Yes,  
5 it's done. Thanks a lot. I've got him.

6 DAN BARSS: All right.

7 DAVE MCINTYRE: Bye.

8 DAN BARSS: Yes, bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%KWPE6604065094

3 DAN BARSS: NRC, this is Dan.

4 OPERATOR: Hi, I have Deanne Idar on the  
5 line for you.

6 DAN BARSS: Okay.

7 DEANNE IDAR: Hi, is this Dan?

8 DAN BARSS: Yes.

9 DEANNE IDAR: Dan, this is Deanne Idar from  
10 OSD Policy. How are you today?

11 DAN BARSS: Good.

12 DEANNE IDAR: So I wanted to follow-up and  
13 just touch base very quickly. Thank you again for giving  
14 the NRC guidance 1.86 to do. We had pulled that and  
15 I know that's from 1974, and I know the ANSI standard  
16 that I was referring to, this 13-12 -- not dash, excuse  
17 me, 13.12-1999. I don't know if you're familiar with  
18 it or not.

19 DAN BARSS: No.

20 DEANNE IDAR: Okay. In that particular one,  
21 and these are pages 14 and 15, there is a reference to  
22 a 25 millirem per year recently published NRC  
23 decommissioning rule, 40CFR 190 from 1994. And I'm not  
24 familiar with that particular document and whether it  
25 has any impact to NRC 1.86 or not, so that was my first

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1 question.

2 DAN BARSS: You're losing me here real quick.

3 DEANNE IDAR: Okay.

4 DAN BARSS: Back up a second. The ANSI  
5 document was 13.12?

6 DEANNE IDAR: Yes --

7 DAN BARSS: What's that?

8 DEANNE IDAR: -- dash 1999.

9 DAN BARSS: 1999, okay.

10 DEANNE IDAR: Yes.

11 DAN BARSS: And that referred on page 14  
12 and 15 to something.

13 DEANNE IDAR: Yes, on pages 14 it makes  
14 reference to a published NRC decommissionary rule from  
15 40CFR 190 in 1994.

16 DAN BARSS: You said 40CFR 190?

17 DEANNE IDAR: Yes, sir. Yes.

18 DAN BARSS: That doesn't sound right to me,  
19 but okay.

20 DEANNE IDAR: And I'll pull it up. I did  
21 email those pages to (b)(6) (phonetic). What's strange  
22 is I received them from a point-of-contact here in the  
23 Pentagon, and he is able to print them out but I am not  
24 successful in printing them out. And it sounds like  
25 he has the newer version of Adobe, and so he's successful

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1 from that perspective, but I'm not.

2 DAN BARSS: Okay. So what's the question?

3 DEANNE IDAR: I wanted to know does that  
4 have an impact with regard to the NRC's 1.86 guidance,  
5 and if it does, what it is. The second question I have  
6 is if you're familiar with that ANSI standard, and if  
7 there's any concerns with regard to the DOD adopting  
8 that standard --

9 DAN BARSS: Hold on just a second. Let me  
10 get Steve Levy here. He may be able to add something  
11 to this.

12 DEANNE IDAR: Thank you.

13 DAN BARSS: I'll put you on speaker phone.  
14 Are you still here?

15 DEANNE IDAR: Yes, I am. Yes.

16 DAN BARSS: Okay. Why don't you run that  
17 by, or start that again because Steve Levy is here and  
18 he probably has a little better information than I may  
19 have on that.

20 DEANNE IDAR: Okay, Steve, I'm Deanne Idar  
21 from OSD Policy in (b)(5)  
22 and I was on the phone call with (b)(6) that we just finished  
23 up.

24 STEVE LEVY: Yes.

25 DEANNE IDAR: Okay. So our

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1 point-of-contact here, this is a gentleman in the Air  
2 Force, who had developed this memorandum that I've been  
3 referring to internally for the DOD, (b)(5)

4 (b)(5)

5 And this is our assets is what we're referring  
6 to, following CBR contamination, and we're specifically  
7 focused on the RAAD one for this specific scenario.  
8 And he's referencing this ANSI standard, N as in Nancy,  
9 13.12-1999. I'm wondering if you're familiar with it.

10 STEVE LEVY: Only to the extent that N13  
11 is the standard that used for nuclear power reactors  
12 in the area, or radiological assessments and evaluations.

13 I'm not certain was the .12 is.

14 DEANNE IDAR: Okay.

15 STEVE LEVY: It may be -- I know the 13.  
16 Series includes things on shielding for concrete and  
17 things of that nature.

18 DEANNE IDAR: Okay.

19 STEVE LEVY: I think 13 sometimes also  
20 includes radiation monitor calibration.

21 DEANNE IDAR: Okay.

22 STEVE LEVY: It's that health/physics range  
23 in -- not Chapter 13 -- in Committee 13 is the -- it's  
24 a standard Committee 13 addresses those topics. And  
25 the standard takes the Committee's name.

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1 DEANNE IDAR: Okay.

2 STEVE LEVY: The fact that it's dated from  
3 1999 makes it a little suspect in that ANSI standards  
4 are required to be reaffirmed every five years.

5 DEANNE IDAR: Okay.

6 STEVE LEVY: This has missed reconfirmation  
7 at least twice.

8 DEANNE IDAR: Okay, right.

9 STEVE LEVY: So it may be questionable how  
10 they're applying it. The ANSI publishes these things  
11 as copyrighted documents.

12 DEANNE IDAR: Okay.

13 STEVE LEVY: Sometimes they will provide  
14 abstracts on their Web site.

15 DEANNE IDAR: Yes.

16 STEVE LEVY: But usually not enough to  
17 understand what the recommendation is that the standard  
18 is making.

19 DEANNE IDAR: Okay.

20 STEVE LEVY: We don't have access to them  
21 here in this library.

22 DEANNE IDAR: Okay.

23 STEVE LEVY: The agency library, which isn't  
24 open now, has electronic access to these standards.

25 DEANNE IDAR: Steve, repeat that first part

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1 again. Which library?

2 STEVE LEVY: Our technical library.

3 DEANNE IDAR: Okay.

4 STEVE LEVY: The technical library within  
5 the building.

6 DEANNE IDAR: Okay.

7 STEVE LEVY: They're not open right now.

8 DEANNE IDAR: Okay.

9 STEVE LEVY: And it's electronic, but these  
10 standards are -- they're not publicly available but they  
11 are --

12 DAN BARSS: By subscription.

13 STEVE LEVY: -- by subscription primarily,  
14 but there are -- technical libraries typically buy a  
15 subscription.

16 DEANNE IDAR: Yes.

17 STEVE LEVY: I'd be surprised if DOE doesn't  
18 have them.

19 DEANNE IDAR: Okay.

20 STEVE LEVY: Because DOE does work with  
21 reactors; not the licensing but --

22 DEANNE IDAR: Right.

23  
24 STEVE LEVY: And depending what N13's  
25 (indiscernible) is actually addressing.

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1 DEANNE IDAR: Yes.

2 STEVE LEVY: It could be calibration or  
3 radiation instruments.

4 DEANNE IDAR: Yes, okay.

5 DAN BARSS: Now you were referencing a page  
6 14 and 15?

7 DEANNE IDAR: Yes, those were the pages that  
8 were provided to me by the point-of-contact here, and  
9 that's what I sent to (b)(6) Those are the only pages  
10 I have right now, and on that particular page 14 --

11 STEVE LEVY: Okay.

12 DEANNE IDAR: -- it, and again, granted this  
13 is old from 1999, it references that recently published  
14 NRC decommissionary role from -- based on probably --  
15 I don't have the exact paper right in front of me, and  
16 I was just trying to open it and it gives my computer  
17 fits.

18 So I'm going to try and bring it up again  
19 to see if I can get at it, but it says 40CFR 190 --

20 STEVE LEVY: Right.

21 DEANNE IDAR: -- then from 1994.

22 STEVE LEVY: The 40CFR 190 is EPA regulations  
23 for the nuclear fuel cycle.

24 DEANNE IDAR: Okay.

25 STEVE LEVY: Those are the regulations that

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1 come in when we decommission to get --

2 DEANNE IDAR: Okay.

3 STEVE LEVY: Our regulations only apply to  
4 utilization and production facilities.

5 DEANNE IDAR: Okay.

6 STEVE LEVY: Once our licensee terminates  
7 operations and decommissions his facility, it would then  
8 fall under 40CFR 190 --

9 DEANNE IDAR: Okay, got it.

10 STEVE LEVY: -- in EPA regulations.

11 DEANNE IDAR: All right.

12 STEVE LEVY: Offhand, typically the number  
13 the EPA uses is 25 rem for the entire cycle.

14 DEANNE IDAR: Yes, that's what they've got  
15 listed right here, 25 millirem is what they put per year.

16 STEVE LEVY: Per year, yes it's 25 for the  
17 entire cycle.

18 DEANNE IDAR: Okay.

19 STEVE LEVY: That's the entire cycle,  
20 including digging the uranium out of the ground, operating  
21 the facility and decommissioning the waste.

22 DEANNE IDAR: Okay, got it.

23 STEVE LEVY: The total cycle is 25 rem, of  
24 which 25 millirem I think is the annual number used for  
25 what to see commissioned.

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1 DEANNE IDAR: Okay. So, like you said, dig  
2 the uranium out of the ground, process it, et cetera,  
3 get it to reactor, burn it up. And now we get spent  
4 fuel, and now we're dealing with it after that, right?

5 STEVE LEVY: After you move the spent fuel  
6 pool someplace else and you're measuring the ground for  
7 residual contamination and everything, the 25 rem is  
8 what picks it up -- or 25 millirem, excuse me.

9 DEANNE IDAR: Okay, all right. So I'm trying  
10 to reopen this PDF, and like I said it's been giving  
11 me fits. I'm going to see then if I can ask my  
12 point-of-contact about the newer standards, given the  
13 fact that the ANSI standards are supposed to be reaffirmed  
14 every five years, to see if he has those.

15 And then get a better feel for is this really  
16 applicable to what we want to do or not. But I did want  
17 to touch base with you guys, given the fact that you  
18 have your standards for licensed facilities and granted,  
19 these aren't licensed facilities that we're talking about.

20 (b)(5)

21 But I just wanted to get a feel for any impressions  
22 you guys had there and any guidance that you have for  
23 us with regard to that.

24 STEVE LEVY: Well, what I might point out  
25 is that our regulations with regard to the environment

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1 are compatible with EPA's, because under the structure  
2 of Government EPA really has the authority.

3 DEANNE IDAR: Okay.

4 STEVE LEVY: There's memorandums of  
5 understanding between the EPA and the NRC to avoid dual  
6 regulation.

7 DEANNE IDAR: Okay.

8 STEVE LEVY: But once we terminate the  
9 license for that facility --

10 DEANNE IDAR: Right.

11 STEVE LEVY: -- then it falls back under  
12 EPA's regulations.

13 DEANNE IDAR: Okay.

14 STEVE LEVY: How licensees are  
15 decommissioning, we're going to look to see whether their  
16 survey results are consistent with 40CFR 190.

17 DEANNE IDAR: Okay.

18 STEVE LEVY: Because they're going to have  
19 to write an environmental impact statement. Now as far  
20 as using decommissioning criteria for what's going on  
21 here, I'm not sure it's 100 percent applicable because  
22 the decommissioning criteria reflects the fact that that  
23 ground could be returned to any possible public use.

24 DEANNE IDAR: Right.

25 STEVE LEVY: And I'm not thinking that's

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1 what your contact is using it for.

2 DEANNE IDAR: Well --

3 STEVE LEVY: Could still be controlled?

4 DEANNE IDAR: Yes and no.

5 DAN BARSS: Okay. You're looking, if I  
6 remember from the phone call, for a number that you can  
7 use for surveying equipment, aircraft particularly, to  
8 say okay, (b)(5) --

9 DEANNE IDAR: You got it. It's an

10 (b)(5)  
11  
12  
13  
14

15 STEVE LEVY: Yes, I don't think that standard  
16 that you were talking about is the one you want to use.

17 DAN BARSS: I don't really know.

18 DEANNE IDAR: Okay.

19 STEVE LEVY: I'll give you some suggestions,

20 (b)(5)  
21  
22  
23

24 DEANNE IDAR: Yes.

25 STEVE LEVY: You might want to chat with

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1 Naval Reactors.

2 DEANNE IDAR: [REDACTED]

3 [REDACTED]

4 [REDACTED]

and they did

5 talk to those folks. And if I understand the information

6 transferred by them, and this is verbally given to me,

7 I don't have anything in writing, when they spoke to

8 [REDACTED]

folks, they did reference

9 NRC 1.86.

10 STEVE LEVY: Okay.

11 DEANNE IDAR: Okay. And then he said for

12 the [REDACTED],

what his point-of-contact told

13 him is this is that reference 48-148 which is at AFI.

14 STEVE LEVY: Well 186 is decommissioning.

15 DEANNE IDAR: It's decommissioning, I know

16 yours is, and then there's also this AFI 48-148, which

17 I believe does refer back to your 1.86.

18 STEVE LEVY: The 1.86 is a regulatory guide

19 which provides the licensee with an acceptable method

20 for demonstrating compliance with the regulations.

21 DEANNE IDAR: Okay.

22 STEVE LEVY: They can take other approaches,

23 and the ANSI standard may be an alternative approach.

24 DEANNE IDAR: Okay.

25 STEVE LEVY: Now we may have endorsed that

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1 approach in the RAAD guidance. Offhand, I'm not a  
2 decommissioning guy.

3 DEANNE IDAR: Okay, all right. So, my  
4 takeaway is, number one, we need to find out upgraded  
5 standards. Number two, it may not be applicable to the  
6 problem that we have at hand.

7 And then we need to spend a little bit more  
8 time examining that, and touching base with our (b)(5)

9 (b)(5)  
10  
11  
12  
13  
14

15 And I don't mean easy like yeah, it's simple  
16 to do. It's easy to understand is what I'm trying to  
17 get at.

18 STEVE LEVY: Okay, now there is another  
19 perpetration on this, is our regulations and the EPA  
20 regulations with regard to this sort of stuff may not  
21 be consistent with the international guidance that the  
22 Japanese Government may be following.

23 DEANNE IDAR: Okay.

24 STEVE LEVY: So, somebody may want to look  
25 at the IEA publishers standards, similar to what we do,

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1 that the other member states choose to adopt or not adopt.

2 DEANNE IDAR: Right.

3 STEVE LEVY: To see what IEA is recommending  
4 is consistent with us.

5 DEANNE IDAR: Okay, so what they've got,  
6 okay in this ANSI standard, and granted it's old, when  
7 we get to rationale used for setting the unrestricted  
8 clearance dose criterion.

9 STEVE LEVY: Right.

10 DEANNE IDAR: Okay, the first one that they  
11 have is one millirem per year has the advantage that  
12 it can be referenced to the IAEA.

13 STEVE LEVY: Okay.

14 DEANNE IDAR: Okay. So, there is a reference  
15 to that effect in this old standard. Now I don't know  
16 in the newer standards, that you know, the updated one  
17 for this, if it would have that or not.

18 STEVE LEVY: Sure. Now, the reason I raised  
19 that is that I think I heard you use a millirem before,  
20 and the international community's using microsieverts  
21 and millisieverts.

22 DEANNE IDAR: Sure. Yes, and what they have  
23 here, they've actually written this from the microsievert  
24 point --

25 STEVE LEVY: Yes.

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1 DEANNE IDAR: -- so this is 10 microsieveverts  
2 per year, and then immediately in parentheses afterwards  
3 for our sake, they've got the 1 millirem per year, you  
4 know, which any of us can translate. We've got the  
5 conversion factors, you know, I don't worry about that  
6 type of thing.

7 But yes, they have that there, and the real  
8 question then, I think you gentlemen are posing to me  
9 is has Japan adopted this standard, or any other  
10 international partner that we might be considering --

11 STEVE LEVY: Right.

12 DEANNE IDAR: -- to land and do refueling  
13 or something to that effect. Is that a fair statement?

14 STEVE LEVY: It's a fair statement because  
15 the international standards aren't legally binding on  
16 anybody.

17 DEANNE IDAR: Okay.

18 STEVE LEVY: They're adopted by member  
19 states, and member states can be more restrictive.

20 DEANNE IDAR: Right. Okay. Allright, I'll  
21 pose this to my colleagues here.

22 STEVE LEVY: Okay.

23 DEANNE IDAR: Again, my Air Force  
24 point-of-contact, but also to Transcom, to let them know  
25 that we chatted, which was part of my mandate for today

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1 coming out of our meeting because we had said, okay,  
2 what are we looking at? Why are we looking at this?

3 Another question if I may, and (b)(5)

4 (b)(5) This is really  
5 for my education. Given that 1.86 was written in 1974  
6 --

7 STEVE LEVY: Yes.

8 DEANNE IDAR: Pardon me?

9 STEVE LEVY: Okay.

10 DEANNE IDAR: Is that something that the  
11 NRC looks at updating at some point in time, or they  
12 do something that supersedes it? How does the NRC usually  
13 go about updating their standards, if they update their  
14 standards? And again, (b)(5)

15 (b)(5) That's not my desire.

16 STEVE LEVY: Oh, somebody has passed me a  
17 note and it indicates that it's used on a case-by-case  
18 basis. The regulatory guides are one method that's  
19 acceptable to the agency to demonstrate in compliance  
20 with the regulations. If licensees propose alternatives  
21 --

22 DEANNE IDAR: Yes.

23 STEVE LEVY: -- and the reviewer has to  
24 compare that alternative to the regulation, not to the  
25 guidance --

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1 DEANNE IDAR: Okay.

2 STEVE LEVY: -- and make a determination  
3 on whether or not, what the applicant or the licensee  
4 is proposing, then adequately demonstrates compliance.

5 DEANNE IDAR: Okay.

6 STEVE LEVY: Now there is interpretation.  
7 Regulatory guides are not like a regulation that they  
8 have to follow verbatim.

9 DEANNE IDAR: Right.

10 STEVE LEVY: They're allowed to propose  
11 alternatives.

12 DEANNE IDAR: Okay. All right. So if it  
13 meets what a --

14 STEVE LEVY: Right, it has to meet the  
15 regulation ultimately which would be 40CFR 190.

16 DEANNE IDAR: Okay, got it. Okay, that helps  
17 me a lot just to get that. And so then, since you guys  
18 have published this regulatory guideline in 1974, do  
19 you guys go back and revisit these and update them, because  
20 this is part of the discussions internally here.  
21 Everybody's like wow, 1974. They haven't updated it  
22 since then? And I'm like, man, I don't honestly know.

23 STEVE LEVY: I think what you're seeing,  
24 largely, is probably the result of the fact that we really  
25 haven't had a ground swell of decommissionings.

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1 DEANNE IDAR: Right.

2 STEVE LEVY: I suspect when the current fleet  
3 of plants start running down their license here, in another  
4 20 years --

5 DEANNE IDAR: Yes.

6 STEVE LEVY: -- there's going to be a great  
7 emphasis on updating the standards.

8 DEANNE IDAR: Okay. All right.

9 STEVE LEVY: Right now, when the licensees  
10 propose alternatives, they're reviewing them  
11 individually to see where they go. And I'm sure there  
12 may be branch technical positions that help that decision  
13 as well.

14 DEANNE IDAR: Okay, but as you noted, because  
15 it's regulatory guidelines and the licensees can propose  
16 alternatives, those are review on a case-by-case basis  
17 to determine if they are a method that meets the regulations  
18 at 40CFR 190. Did I capture it right?

19 MALE PARTICIPANT: You have. That's right.

20 DEANNE IDAR: Okay.

21 DAN BARSS: I believe so, yes, Steve.

22 DEANNE IDAR: Okay, those are primarily the  
23 questions I had. You've helped me a lot because this  
24 is not my subject matter by any means, and I'm learning.  
25 And I sincerely appreciate you both taking time with

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1 me on the phone to discuss this with me and give me some  
2 additional insight.

3 DAN BARSS: I'm glad Steve was available.

4 DEANNE IDAR: Yes, well Dan, thank you for  
5 you too, so gentlemen --

6 STEVE LEVY: (b)(6)

7 (b)(6)  
8

9 DEANNE IDAR: Very good. Thank you both,  
10 I appreciate that.

11 DAN BARSS: Bye now.

12 DEANNE IDAR: All right, bye-bye.

13 STEVE LEVY: Bye.

14 MALE PARTICIPANT: Bye.  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

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1 (CONFERENCE CALL INITIATED)

2 0%KXMFH604065094

3 DAN BARSS: NRC, this is Dan.

4 OPERATOR: I've got Mr. Quinlan on the line  
5 for you.

6 DAN BARSS: Okay. Hello?

7 KEVIN QUINLAN: Hi, is this PMT?

8 DAN BARSS: Yes, this the PMT. This is Dan  
9 Barss. Who am I talking to?

10 KEVIN QUINLAN: Kevin Quinlan, I'm one of  
11 the meteorologists.

12 DAN BARSS: Okay.

13 KATHY BROCK: He's the guy --

14 KEVIN QUINLAN: Would you be able to -- do  
15 you know if Brad Harvey is there, or whoever is --

16 DAN BARSS: Brad Harvey is here.

17 KEVIN QUINLAN: Okay. I was hoping just  
18 to have him email me the schedule. I never received  
19 it as I was supposed to this morning.

20 DAN BARSS: Hold on a second. Let me let  
21 you talk to him.

22 KEVIN QUINLAN: Oh, okay, thank you.

23 DAN BARSS: Jack (phonetic) Quinlan wants  
24 to know about the schedule.

25 BRAD HARVEY: Hello, Brad Harvey.

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1 KEVIN QUINLAN: Hey, Brad, it's Kevin.

2 BRAD HARVEY: Oh, hi Kevin, how are you?

3 KEVIN QUINLAN: Good, how are you?

4 BRAD HARVEY: Good.

5 KEVIN QUINLAN: Michael (phonetic) was  
6 supposed to email me the schedule this morning

7 BRAD HARVEY: Okay. Hold on a minute. Let  
8 me grab it off the wall, okay?

9 KEVIN QUINLAN: Okay.

10 BRAD HARVEY: Yes, I believe you were on  
11 tonight.

12 KEVIN QUINLAN: Yes, I knew I was on tonight.  
13 But I just got an email from Mike saying that I'm not  
14 on the next couple of nights --

15 BRAD HARVEY: That's the note that Mike left  
16 with me, yes.

17 KEVIN QUINLAN: Okay. Do you know if that's  
18 the official schedule, because if I'm going to be working  
19 night shift, or really any shift, I'd love to have kind  
20 of some consistency, so I can work really --

21 BRAD HARVEY: Well, you and I guess --  
22 whatever you and Andy (phonetic) come up with.

23 KEVIN QUINLAN: Okay.

24 BRAD HARVEY: I don't think, you know, I  
25 think whatever we decide they'll go with.

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1 KEVIN QUINLAN: Okay, I just wanted --

2 BRAD HARVEY: Yes.

3 KEVIN QUINLAN: Okay. I was going to email  
4 Andy and let him know that I can work the rest of the  
5 night shifts for this week. I just wanted to make sure  
6 that I wasn't scheduled for any daytime shifts as well.

7 BRAD HARVEY: All right. Let me double  
8 check.

9 KEVIN QUINLAN: Okay.

10 BRAD HARVEY: You are scheduled -- no, I  
11 guess your night shift is off Thursday night. No, you're  
12 just night shifts all week. I don't see your name for  
13 anything else, but --

14 KEVIN QUINLAN: Okay, so it's just the 11:00  
15 to 7:00 shift?

16 BRAD HARVEY: Yes.

17 KEVIN QUINLAN: Okay. All right, well I'll  
18 probably email Andy and just let him know that I'll work  
19 those --

20 BRAD HARVEY: Okay.

21 KEVIN QUINLAN: -- the 11:00 to 7:00 shift  
22 each day.

23 BRAD HARVEY: All right. Email us here,  
24 whatever you decide I guess.

25 KEVIN QUINLAN: I'll copy everybody on it.

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BRAD HARVEY: Okay, thanks Kevin.

KEVIN QUINLAN: All right. Thanks, Brad.

BRAD HARVEY: Hanging up.

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1 (CONFERENCE CALL INITIATED)

2 0%L9DQ7604065094

3 DAN BARSS: NRC, this is Dan.

4 OPERATOR: Hey, I have Jack Foster from  
5 Japan.

6 DAN BARSS: Yes.

7 OPERATOR: Please hold.

8 DAN BARSS: Hello?

9 JACK FOSTER: Hi, this is Jack Foster. Who  
10 am I speaking to?

11 DAN BARSS: Jack, this is Dan Barss at the  
12 NRC.

13 JACK FOSTER: Hey Dan, it's great hearing  
14 from you. I just wanted to let you know that Dan Dorman's  
15 on this line as well.

16 DAN BARSS: Okay.

17 JACK FOSTER: We're calling from Japan and  
18 I understand that you had a request from the Japan team  
19 I guess last night. I wasn't really aware. I wasn't  
20 here when it happened, but evidently that there was a  
21 request to compare some of the data that Naval Reactors  
22 had and put it into context of what we think the PAG  
23 should be.

24 DAN BARSS: Yes.

25 JACK FOSTER: And I think that, you know,

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1 the evolution of this was that we felt that, NRC and  
2 DOE felt that it really didn't reach the point of doing  
3 some of the actions that they were talking about, such  
4 as indoor, you know, staying indoors or issuing a letter  
5 or something like that.

6 So, I'm just trying to come up to speed so  
7 when we start talking to the Ambassador about this, we'll  
8 kind of speak as one and one voice, DOE and NRC.

9 DAN BARSS: Yes.

10 JACK FOSTER: Are you familiar with what  
11 I'm talking about?

12 DAN BARSS: I am not. Let me get hold of  
13 the guys that are on the RASCAL. Maybe they can help  
14 me out.

15 DAN DORMAN: Dan, this is Dan Dorman. Let  
16 me just expand on that a little bit. There was about,  
17 I don't know, 17 or 18 hours ago, there was a flap because  
18 NR had identified a single data point about 90 miles  
19 south of the plant where they identified a 10 to the  
20 minus 7th iodine sample that was getting them pretty  
21 exercised.

22 And it turned out that that was probably  
23 a cross-contaminated sample, because it had decayed off  
24 pretty fast. So that one kind of faded into the background,  
25 although it did result in a conference call between the

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1 (b)(5)

2 DAN BARSS: Yes.

3 DAN DORMAN: But then later, here the Naval  
4 Reactors folks here at the Embassy came down to talk  
5 to us and they were looking at a series of data points,  
6 that kind of an ongoing 15-minute air samples, and  
7 contamination samples and background radiation at the  
8 USS George Washington which is at the Naval base in Yokosuka  
9 which is a little bit south of here.

10 And they were integrating the data from those  
11 and projecting 20 millirem per hour committed thyroid  
12 dose in Yokosuka, and they were getting -- so they were  
13 extrapolating that data, and you know, if you do that  
14 for, you know, what would that be 50 -- 550, or 500 hours  
15 -- 50 hours I guess you'd get to a rem.

16 DAN BARSS: Yes.

17 DAN DORMAN: And so they're saying, over  
18 time, you're going to accumulate the dose to get to a  
19 PAG limit at Yokosuka, and we said look, can you write  
20 that up.

21 We gave them the hoo.hoc email address, and  
22 I called the HOO last night and Vince Clove (phonetic)  
23 was on -- well, last night our time, and gave him the  
24 heads up that he should be looking for an email from  
25 Naval Reactors that he should forward over to you all

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1 in the PMT because we wanted to get your take on the  
2 data.

3 But basically the data that they were  
4 reporting was a series of data points that were generally  
5 in the 1 to 3 X 10 to the minus 9th. But they had some  
6 data points that were up around 7 or 8 X 10 to the minus  
7 9th, and I think they even said they had one that was  
8 right around the PAG limit, or the DAC, excuse me, for  
9 the iodine, up around 3 X to the minus 8th, and I think  
10 he said microcuries per milliliter.

11 And so we wanted to have them get that data  
12 over to guys and have you guys assess it from a PAG  
13 perspective, because what the Navy is talking about doing  
14 is telling the dependents on the Naval base that they  
15 should minimize their time outdoors. And I  
16 know the PMT did some work on this. I think Greg Casto  
17 was working on it a shift or two ago, and gave an assessment  
18 that was really focused on the 10 to the minus 7th, and  
19 it turned out to be an anomaly. (b)(5)

20 (b)(5)  
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1 (b)(5)

2 DAN BARSS: Yes.

3 DAN DORMAN: So, if you could dig around  
4 and see if you've gotten anything from Naval Reactors?

5 DAN BARSS: Okay, I will look.

6 DAN DORMAN: You know, if you haven't, that's  
7 fine. We'll bring that up if they try and raise this  
8 issue again. We'll say look, we can't comment on this  
9 until you give us a date.

10 JACK FOSTER: Exactly.

11 DAN DORMAN: But if you can find that stuff  
12 and get an assessment of it from an application of the  
13 PAGs perspective, and work back with Jack here on this  
14 end so that we make sure that we're aligned on our message.

15 DAN BARSS: Okay. I assume people here know  
16 how to get a hold of you?

17 DAN DORMAN: Yes.

18 JACK FOSTER: jackfoster@nrc.gov, or you  
19 can -- the HOO has a call up number to contact us.

20 DAN BARSS: Okay.

21 JACK FOSTER: You know, be a voice for  
22 telephone.

23 DAN BARSS: Yes.

24 JACK FOSTER: I routinely check my emails,  
25 so if you send me an email and just say call me, I'll

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1 be able to call back in a couple of minutes.

2 DAN BARSS: Okay. I'll see what I can find  
3 on that. Hey let me ask you, as long as I've got you,  
4 now that you're over there, because this may tie into  
5 this. We got word, and I don't know where it came from,  
6 whether it was rumor or how it circulated, but something  
7 about that the Navy or some of the military bases were  
8 evacuating pregnant females from the bases. We didn't  
9 know if that was true or not.

10 I put a call into Naval Reactors to see if  
11 I could get any information on that and haven't heard  
12 anything yet.

13 JACK FOSTER: When you find out, let us know.

14 DAN BARSS: Okay.

15 JACK FOSTER: I haven't heard anything.

16 DAN DORMAN: First we've heard of that.

17 DAN BARSS: Yes.

18 JACK FOSTER: I'll check with the DOE folks,  
19 see if they've heard it and I'll let you know.

20 DAN BARSS: Yes. At this point, it may just  
21 be rumor or misinformation. I don't know, but nobody  
22 I've talked to has got anything factual on it yet, so.

23 JACK FOSTER: I've heard that, several days  
24 ago, there was a letter that was being drafted up that  
25 may or may not have had some information as to that,

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1 you know.

2 DAN DORMAN: Well I think the base commander,  
3 as I understand it, did issue some guidance for the base  
4 personnel earlier in the week when the wind shifted around  
5 to the south, that basically advised people to minimize  
6 their time outdoors.

7 JACK FOSTER: (b)(5)

8 (b)(5)

9 DAN DORMAN: (b)(5)

10 (b)(5)  
11  
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19 DAN BARSS: Right.

20 DAN DORMAN: -- (b)(5)

21 (b)(5)

22 DAN BARSS: Yes.

23 DAN DORMAN: That --

24 DAN BARSS: (b)(5)

25 DAN DORMAN: (b)(5)

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1 (b)(5)

2 DAN BARSS: Yes.

3 DAN DORMAN: -- (b)(5)

4 (b)(5)

5  
6 DAN BARSS: Yes, you're right.

7 DAN DORMAN: (b)(5)

8 (b)(5)

9  
10 DAN BARSS: Yes.

11 JACK FOSTER: Exactly.

12 DAN BARSS: I understand. All right, let  
13 me see if I can find this stuff and see if we got anything  
14 from Naval Reactors and if we did anything with it, and  
15 I will get back to you.

16 JACK FOSTER: Positive or negative, I mean  
17 (crosstalk) --

18 DAN BARSS: Yes, either way.

19 JACK FOSTER: -- that we know that too, okay?  
20 And I'm using pmt12 to communicate. Is that still a  
21 good --

22 DAN BARSS: Yes. Yes, I'm sitting right  
23 there at that.

24 JACK FOSTER: Okay, talk to you later.

25 DAN BARSS: Yes, all right, bye.

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JACK FOSTER: Bye.

DAN DORMAN: Thanks, Dan.

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1 (CONFERENCE CALL INITIATED)

2 0%L99) 6L04065094

3 DAN BARSS: NRC, this is Dan.

4 OPERATOR: I've got Mike McBrearty from the  
5 San Onofre.

6 DAN BARSS: Okay. Hello?

7 MIKE MCBREARTY: Hi, this is Mike McBrearty  
8 from San Onofre Nuclear Generating Station.

9 DANBARSS: Hi, Mike. Givemethenameagain?

10 MIKE MCBREARTY: It's Mike, last name is  
11 McBrearty, that's M-C-B-R-E-A-R-T-Y.

12 DAN BARSS: D-R-D-A-R-T-Y?

13 MIKE MCBREARTY: B-R-E-A, as in alpha,  
14 R-T-Y.

15 DAN BARSS: Start that again.

16 MIKE MCBREARTY: Okay. Let me get out my  
17 phonetic alphabet here. It's  
18 Mike-Charlie-Bravo-Radio-Echo-Alpha-Radio-Tango-Yank  
19 ee.

20 DAN BARSS: Okay. You're with San Onofre?

21 MIKE MCBREARTY: Correct, I'm with the  
22 Nuclear Regulatory Affairs Group.

23 DAN BARSS: All right.

24 MIKE MCBREARTY: And we were asked last week  
25 by Region 4 to make some voluntary calls and report air

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1 sample results.

2 DAN BARSS: Yes.

3 MIKE MCBREARTY: So I'm reporting the  
4 results for today.

5 DAN BARSS: Okay.

6 MIKE MCBREARTY: So we've seen Iodine-131.  
7 Today's readings were on the order of about 1.7 to 1.8E-12  
8 microcuries per cc, essentially similar to what we had  
9 reported yesterday.

10 DAN BARSS: And that was Iodine-131, 1.7  
11 to 1.8E-12 microcuries per cc?

12 MIKE MCBREARTY: That is correct.

13 DAN BARSS: Okay.

14 MIKE MCBREARTY: We did also see some low  
15 levels of Cesium-137.

16 DAN BARSS: Okay.

17 MIKE MCBREARTY: And that would 3E-13  
18 microcuries per cc.

19 DAN BARSS: And that was Cesium-137 at 3E-13  
20 microcuries per cc?

21 MIKE MCBREARTY: That is correct.

22 DAN BARSS: And again, it's was with San  
23 Onofre?

24 MIKE MCBREARTY: Yes.

25 DAN BARSS: All right. About what time were

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1 the samples taken?

2 MIKE MCBREARTY: Oh, gees, I don't have the  
3 times here in the data.

4 DAN BARSS: Okay, but sometime today.

5 MIKE MCBREARTY: Yes.

6 DAN BARSS: All right.

7 MIKE MCBREARTY: I believe they would have  
8 been -- they're 24-hour samples, and I believe they're  
9 counted over a 1-hour period.

10 DAN BARSS: Okay. So a 24-hour collection  
11 time and then a 1-hour count time.

12 MIKE MCBREARTY: Correct.

13 DAN BARSS: Okay. Yes, to get those low  
14 levels, you've probably got to --

15 MIKE MCBREARTY: Yes.

16 DAN BARSS: Okay.

17 MIKE MCBREARTY: And may I ask who I'm talking  
18 to?

19 DAN BARSS: This is Dan Barss. I'm the  
20 Protective Measures Team Assistant Director I guess they  
21 call me.

22 MIKE MCBREARTY: Okay.

23 DAN BARSS: And do you have a contact number  
24 in case we need to call you back?

25 MIKE MCBREARTY: Yes. Can I -- what was

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1 your last name, Dan?

2 DAN BARSS: It's Barss, spelled B-A-R-S-S.

3 MIKE MCBREARTY: B-A-R-S-S?

4 DAN BARSS: Yes.

5 MIKE MCBREARTY: Got it. Yes, I'll give  
6 you my cell phone number --

7 DAN BARSS: Okay.

8 MIKE MCBREARTY: -- because it's getting  
9 a little bit late in the day. Cell phone number is (b)(6)

10 --

11 DAN BARSS: [REDACTED]

12 MIKE MCBREARTY: -- [REDACTED] --

13 DAN BARSS: -- (b)(6)

14 MIKE MCBREARTY:

15 DAN BARSS: -- [REDACTED] Again, it's

16 (b)(6)

17 MIKE MCBREARTY: That's correct.

18 DAN BARSS: Thank you for the report.

19 MIKE MCBREARTY: Okay, Dan, you have a good  
20 night.

21 DAN BARSS: You, too.

22 MIKE MCBREARTY: Bye.

23 DAN BARSS: Bye.

24

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(CONFERENCE CALL INITIATED)

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DAN BARSS: NRC, this is Dan.

OPERATOR: I have Trish Milligan on the line  
for you.

DAN BARSS: Sure. Hello?

TRISH MILLIGAN: Dan?

DAN BARSS: Yes.

TRISH MILLIGAN: Hey, it's Trish, how are  
you?

DAN BARSS: Good. Just couldn't stay away?

TRISH MILLIGAN: No, I just couldn't stay  
away. Actually we talked to Bob, we got everything squared  
away. I'm still going to use him to do our work. But  
when you ordered your heater --

DAN BARSS: Yes.

TRISH MILLIGAN: -- who did you order it  
from? Was that that 757 number that you gave me?

DAN BARSS: I don't remember what I gave  
you, and it was someplace near Norfolk or in Virginia  
-- not Norfolk. What's just north of Norfolk? I can't  
remember the name of the town.

TRISH MILLIGAN: Okay.

DAN BARSS: And not Yorktown, but somewhere  
near Yorktown, and it was from like Southern Plumbing

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1 and Heating.

2 TRISH MILLIGAN: Oh, okay. And how did you  
3 happen to go with them.

4 DAN BARSS: Well, I got a number of a guy  
5 that's the sales rep for the company and I called him,  
6 and he said well, I can't sell it to you. He said, but  
7 let me find out who can and at the best price, and he  
8 gave me --

9 TRISH MILLIGAN: Oh.

10 DAN BARSS: -- that information.

11 TRISH MILLIGAN: Okay, because Michael  
12 (phonetic) was talking to them today and they said well  
13 we can't sell it to you. We can only sell it to a dealer  
14 or somebody.

15 DAN BARSS: The Southern Plumbing guy?

16 TRISH MILLIGAN: No, the actual company.

17 DAN BARSS: Yes.

18 TRISH MILLIGAN: And I thought that sounded  
19 -- I remember what you had said, and then I couldn't  
20 remember what the story was, but we have to order it  
21 now that we're actually doing this one.

22 DAN BARSS: Yes, you've got to order it from  
23 them. I just called them and told them what I wanted,  
24 the model number --

25 TRISH MILLIGAN: Yes.

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1 DAN BARSS: -- and then he gave me the price  
2 and shipping included, and they sent it straight from  
3 the company, it came direct to me.

4 TRISH MILLIGAN: Wow, okay. Because what  
5 I talked to him about is a slightly bigger unit than  
6 what you ordered --

7 DAN BARSS: Yes.

8 TRISH MILLIGAN: -- because I have slightly  
9 -- my demands are a little different.

10 DAN BARSS: Oh sure, yes.

11 TRISHMILLIGAN: Yes. So we've got the model  
12 number, okay. So I'll just look them up online. I think  
13 you gave me their sometime.

14 DAN BARSS: Yes, when I get home I can pull  
15 it up and email it to you tomorrow.

16 TRISH MILLIGAN: Oh, okay. That would be  
17 great. Are you working at home tomorrow?

18 DAN BARSS: Yes.

19 TRISH MILLIGAN: Good, that's fine. How  
20 are things going tonight?

21 DAN BARSS: Oh, it's the normal, you know,  
22 there are moments of quiet, there are moments of chaos.

23 TRISH MILLIGAN: Yes, anything exciting  
24 happening with what's going on there?

25 DAN BARSS: No, not that I know of. We're

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1 just tracing leads down trying to find stuff. I think  
2 I finally find the data from the USS George Washington.  
3 That we've been looking for and not able to find.

4 TRISH MILLIGAN: Oh, yes. Where did that  
5 turn out to be?

6 DAN BARSS: Well, I found it in a brown folder  
7 laying on the desk here.

8 TRISH MILLIGAN: Oh. Okay, well, there you  
9 go.

10 DAN BARSS: But to my knowledge, nobody's  
11 analyzed it yet, so.

12 TRISH MILLIGAN: Oh, okay.

13 DAN BARSS: At least we found it.

14 TRISH MILLIGAN: Any AMS greetings of any  
15 consequence.

16 DAN BARSS: No, the AMS have been grounded  
17 because of the weather conditions and it looks like they'll  
18 be grounded tomorrow too.

19 TRISH MILLIGAN: Oh really? Oh, okay.

20 DAN BARSS: Yes.

21 TRISH MILLIGAN: I was wondering why we  
22 didn't have data from them.

23 DAN BARSS: Yes.

24 TRISH MILLIGAN: How interesting, okay.  
25 So, all's well that ends well.

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1 DAN BARSS: Yes, so far.

2 TRISH MILLIGAN: Have you heard how long  
3 we're going to be keeping in operations?

4 DAN BARSS: No. I would expect a long time.

5 TRISH MILLIGAN: Yes, that's what -- I think  
6 so too. Are you going to go to Japan?

7 DAN BARSS: (b)(6)

8 (b)(6)

9 TRISH MILLIGAN: (b)(6)

10 DAN BARSS: Yes.

11 TRISH MILLIGAN: Yes?

12 DAN BARSS: (b)(6)

13 TRISH MILLIGAN: Yes, okay. (b)(6)

14 (b)(6)

15 DAN BARSS: Okay.

16 TRISH MILLIGAN: (b)(6)

17 DAN BARSS: (b)(6)

18 (b)(6)

19  
20 TRISH MILLIGAN: Oh, that's right.

21 DAN BARSS: (b)(6)

22 TRISH MILLIGAN: That's right. Okay, well  
23 then I won't see you tomorrow. But yes, if you could  
24 email me that, that would be great because I'll go ahead  
25 and order it. I remember you gave me a 757 number which

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1 I think was it, but I can't find the number.

2 DAN BARSS: Yes, I can do that.

3 TRISH MILLIGAN: That would be great.

4 DAN BARSS: Okay.

5 TRISH MILLIGAN: Well thanks. Have a great  
6 night and I'm toddling off to bed so I can have a good  
7 day tomorrow.

8 DAN BARSS: Try to do that.

9 TRISH MILLIGAN: I will.

10 DAN BARSS: All right.

11 TRISH MILLIGAN: Talk to you late.

12 DAN BARSS: Yes.

13 TRISH MILLIGAN: Thanks, bye.

14 DAN BARSS: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 0%LDRMCL04065094

3 JESSICA KRATCHMAN: Ops Center, Jessica.

4 OPERATOR: I've got a phone call for you..

5 JESSICA KRATCHMAN: Okay. A phone call for  
6 me.

7 (Crosstalk)

8 JESSICA KRATCHMAN: Hello?

9 PRIYA DOSHI: Hello?

10 JESSICA KRATCHMAN: Hello. Hi.

11 PRIYA DOSHI: Hi, who is this?

12 JESSICA KRATCHMAN: This is Jessica in the  
13 Ops Center.

14 PRIYA DOSHI: Hi Jessica, this is Priya Doshi  
15 over at NARAC.

16 JESSICA KRATCHMAN: Okay.

17 PRIYA DOSHI: Are you on this evening to  
18 review radioisotopes for the super core source term?

19 JESSICA KRATCHMAN: I'm not, but I can pass  
20 the message along.

21 PRIYA DOSHI: Yes, that would be great.  
22 There was a list of top 20 radionuclides sent out earlier  
23 today. I want to confirm whether NRC has reviewed and  
24 approved that list.

25 JESSICA KRATCHMAN: Okay, want to confirm

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1 NRC reviewed and approved?

2 PRIYA DOSHI: Yes, reviewed and approved  
3 that list. And then, by NRC, I'm talking about the group  
4 that does the RASCAL runs --

5 JESSICA KRATCHMAN: Yes.

6 PRIYA DOSHI: -- using the source terms.

7 JESSICA KRATCHMAN: Yes, you're at the right  
8 group.

9 PRIYA DOSHI: All right, am I? Okay, I just  
10 wasn't clear. So, NARAC is moving toward, you know,  
11 creating products, but it is important for them to make  
12 sure that NRC and the CM home team have adequately reviewed.

13 JESSICA KRATCHMAN: Okay. Can I give you  
14 a call back?

15 PRIYA DOSHI: Yes, please.

16 JESSICA KRATCHMAN: What --

17 PRIYA DOSHI: I'm on the bridge line, too,  
18 so if you want to go that route, that's fine. You can  
19 just say NARAC and I'll come on, or you can take this  
20 number down. My number is area code [redacted] --

21 JESSICA KRATCHMAN: [redacted]

22 PRIYA DOSHI: -- [redacted]

23 JESSICA KRATCHMAN: -- [redacted] --

24 PRIYA DOSHI: -- [redacted]

25 JESSICA KRATCHMAN: [redacted] and what was your

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1 name?

2 PRIYA DOSHI: Priya, P-R-I-Y-A.

3 JESSICA KRATCHMAN: Okay.

4 PRIYA DOSHI: Last name is Doshi, D as in  
5 David, O-S-H-I.

6 JESSICA KRATCHMAN: Okay. I'll get right  
7 back to you.

8 PRIYA DOSHI: And can I ask you, who actually  
9 is on this evening to work on any of this?

10 JESSICA KRATCHMAN: The director is John  
11 Pepper.

12 PRIYA DOSHI: Okay.

13 JESSICA KRATCHMAN: And I don't know who's  
14 on dose assess -- I like literally just got on shift,  
15 so.

16 PRIYA DOSHI: Oh, okay.

17 JESSICA KRATCHMAN: Yes, we're turning over  
18 right now, so I'll give you a call right back when I  
19 figure out what's going on.

20 PRIYA DOSHI: Okay, thank you.

21 JESSICA KRATCHMAN: Okay, thanks.

22 PRIYA DOSHI: Sure, bye-bye.

23

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1 (CONFERENCE CALL INITIATED)

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3 JESSICA KRATCHMAN: Ops Center, Jessica.

4 OPERATOR: Hi, I have Lou Brandon on the  
5 line.

6 JESSICA KRATCHMAN: Okay. Lou?

7 LOU BRANDON: Yes.

8 JESSICA KRATCHMAN: Hi, this is Jessica.  
9 How are you?

10 LOU BRANDON: Hi, Jessica --

11 JESSICA KRATCHMAN: Kratchman, I'm the PAD  
12 (phonetic) tonight.

13 LOU BRANDON: Oh, okay. Is Jay (phonetic)  
14 there?

15 JESSICA KRATCHMAN: Jay like literally just  
16 walked out because he had to go, but he said there wasn't  
17 that much to update you on. Just reoccurring action  
18 items and stuff like that, so he said --

19 LOU BRANDON: Okay.

20 JESSICA KRATCHMAN: -- he was going to go.

21 LOU BRANDON: Okay, good. I overslept, I  
22 just woke up, so --

23 JESSICA KRATCHMAN: That's fine.

24 LOU BRANDON: (b)(6)

25 (b)(6) (crosstalk) --

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1 JESSICA KRATCHMAN: Yes, that's fine.

2 LOU BRANDON: -- (inaudible).

3 JESSICA KRATCHMAN: No, he left. He just  
4 said there's nothing really much to update you on anyways.

5 LOU BRANDON: Okay, very good. I'll be there  
6 in a few minutes.

7 JESSICA KRATCHMAN: Okay. All right, see  
8 you then. Bye.

9 LOU BRANDON: Okay, bye-bye.

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1 (CONFERENCE CALL INITIATED)

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3 (Crosstalk)

4 JESSICA KRATCHMAN: Hi Priya, this is  
5 Jessica Kratchman with the NRC. How are you?

6 PRIYA DOSHI: Good, how are you doing,  
7 Jessica?

8 JESSICA KRATCHMAN: Can you resend us that  
9 because we don't have it. We have no record of an email  
10 like that, but if you just resend it, we'll look it over.

11 PRIYA DOSHI: Okay.

12 JESSICA KRATCHMAN: Okay.

13 PRIYA DOSHI: What email, or do I use the  
14 PMT?

15 JESSICA KRATCHMAN: Yes, do pmt12.

16 PRIYA DOSHI: pmt12, okay.

17 JESSICA KRATCHMAN: Yes. All right?

18 PRIYA DOSHI: All right.

19 JESSICA KRATCHMAN: Thank you. I'll get  
20 back to you.

21 PRIYA DOSHI: Yes.

22 JESSICA KRATCHMAN: All right, bye-bye  
23  
24  
25

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Docket Number: N/A

Location: N/A

Date: March 22, 2011

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Pages 1-273

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI  
PMT RAAD ASST DIRECTOR AUDIO FILES

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TUESDAY,  
MARCH 22, 2011

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(CONFERENCE CALL INITIATED)

KATHY BROCK: Protective Measures.

HEADQUARTERS OPERATIONS OFFICER: Yes ma'am,  
this is the Headquarters Operations Officer. I have  
Pam Henderson from Region 1 on the line.

KATHY BROCK: Okay.

HEADQUARTERS OPERATIONS OFFICER: Hang on.

KATHY BROCK: Hey, Pam.

PAM HENDERSON: Hi. Who am I speaking to?

KATHY BROCK: Kathy Brock, Protective  
Measures Team.

PAM HENDERSON: Hi, Kathy. I wanted to let  
you know that this morning at our management morning  
meeting, they decided that they wanted us to just give  
you a heads up that we got a call yesterday from our  
resident at Nine Mile Point saying that the licensee  
had taken some samples from their storm drains and had  
also looked at a sample from the local airport in Oswego.

And they found trace amounts of iodine 131  
at the airport. By trace, I'm assuming that they mean  
at the lower limit of protection. But they found 19.1  
picocuries per liter in one of the samples in the drain  
from the storm drains. And the information what we were  
getting was that they believe that this was from Japan.

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1 KATHY BROCK: Okay.

2 PAM HENDERSON: Now this morning they've  
3 retracted that.

4 KATHY BROCK: Where do they think it's from?

5 PAM HENDERSON: Well what they're saying  
6 is they don't know. We asked them more about it and  
7 they said they're going to rerun the lab data. And once  
8 they get it, they'll forward it to us and that they're  
9 not pointing to Japan at this time.

10 KATHY BROCK: Okay. So the local airport  
11 reading, that was an air sample?

12 PAM HENDERSON: No, it's all water.

13 KATHY BROCK: Oh, it's water. Okay.

14 PAM HENDERSON: It's all water from a puddle  
15 at the airport or, you know, they must have a bucket  
16 out there or something.

17 KATHY BROCK: Yes.

18 PAM HENDERSON: And then the storm drains.

19 And then there was an article today in the Philadelphia  
20 Inquirer that says that European officials, basically  
21 all we say, are saying that harmless traces of radiation  
22 from stricken nuclear complex in Japan were detected  
23 (indiscernible, possibly "wispig") over the US East  
24 Coast on Monday.

25 KATHY BROCK: Okay.

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1 PAM HENDERSON: And you know, so we're  
2 starting to see, and this is expected, we would expect  
3 that people will start to become a little panicked.

4 KATHY BROCK: We need a task force.

5 PAM HENDERSON: Yes.

6 KATHY BROCK: (Indiscernible, possibly \*),  
7 yes.

8 PAM HENDERSON: In any event, we're waiting  
9 to hear back from Nine Mile Point with more definitive  
10 information.

11 KATHY BROCK: I'm trying to think of what  
12 to tell you to do because the focus of the Protective  
13 Measures Team right now is on protective measures in  
14 Japan. We're relying on the EPA to say what's happening  
15 in the US.

16 PAM HENDERSON: Right. No, we're not  
17 expecting anything from you. It's just an awareness.

18 KATHY BROCK: Yes.

19 PAM HENDERSON: We just wanted to give you  
20 an awareness.

21 KATHY BROCK: Okay. But my thought is that  
22 we're going to continue to get all this stuff like you  
23 said and we got to figure out what to do with it.

24 PAM HENDERSON: Yes. I suspect we will  
25 continue to get these kinds of reports.

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1 KATHY BROCK: Okay. I'll give you the email  
2 address for the PMT in case you want to --

3 (Crosstalk)

4 KATHY BROCK: It's PMT12 --

5 PAM HENDERSON: PMT12.

6 KATHY BROCK: -- .hoc --

7 PAM HENDERSON: .hoc.

8 KATHY BROCK: -- @NRC.gov.

9 PAM HENDERSON: NRC.gov.

10 KATHY BROCK: So if anything comes up that  
11 you want to do because we were sort of keeping mildly  
12 aware of (indiscernible, possibly\*) in Diablo (phonetic),  
13 but we weren't doing anything with it.

14 PAM HENDERSON: Yes, we're not, like I say,  
15 we haven't seen anything really definitive. But when  
16 this came up, we thought we thought we'd better, you  
17 know, make sure that you're just aware of it.

18 KATHY BROCK: And I appreciate it very much.

19 PAM HENDERSON: Okay.

20 KATHY BROCK: Thanks, Pam. Allright. Your  
21 last name is Henderson?

22 PAM HENDERSON: Yes, that's right.

23 KATHY BROCK: Is that what you said? Okay,  
24 great. Okay, thanks.

25 PAM HENDERSON: Bye bye.

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KATHY BROCK: Bye.

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(CONFERENCE CALL INITIATED)

KATHY BROCK: Protective Measures Team.

HEADQUARTERS OPERATIONS OFFICER: Yes ma'am,  
this is the Headquarters Operations Officer. I have  
a Mr. George Athey on the line.

KATHY BROCK: Okay. Thank you.

HEADQUARTERS OPERATIONS OFFICER: Thank  
you.

KATHY BROCK: Hey, George.

GEORGE ATHEY: Hey. I'm trying to reach  
Eric.

KATHY BROCK: Eric, hang on. Poor guy's  
just trying to take a bite of lunch.

GEORGE ATHEY: See, I waited until he had  
his mouth full.

KATHY BROCK: Okay. Here he is.

ERIC: Caught me with my mouth full.

GEORGE ATHEY: Yes. I waited until I knew  
you were eating. That's my plan. I didn't know you got  
lunch breaks.

ERIC: That's why you caught me with my mouth  
full. Didn't actually get one.

GEORGE ATHEY: Oh, okay.

ERIC: There was a lull.

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1                   GEORGE ATHEY: How can you have a lull with  
2 an accident like this?

3                   ERIC: We're at a point now where everybody  
4 wants to do a new science experiment.

5                   GEORGE ATHEY: So what have you been  
6 modeling?

7                   ERIC: Well yesterday we started. We were  
8 running the models parallel. And Rich got one result  
9 that was about ten miles further out than I got. So  
10 naturally I assumed he did something wrong.

11                   GEORGE ATHEY: Yes.

12                   ERIC: And we compared results. and as we're  
13 looking through the assumptions made, he had the sprays  
14 turned off like a day before I had the sprays turned  
15 off.

16                   GEORGE ATHEY: Okay.

17                   ERIC: Now I always thought, and I can't  
18 find anything to tell me other, that if you didn't turn  
19 the sprays on, RASCAL didn't model them.

20                   GEORGE ATHEY: Right. They're off by  
21 default.

22                   ERIC: So by him turning the sprays off a  
23 day earlier than I turned the sprays off, his results  
24 are further out than mine.

25                   GEORGE ATHEY: I'd have to think about it,

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1 but I suspect that it started a clock and so that it  
2 -- the spray modeling area is kind crude and it runs  
3 kind of off a clock that says, you know, the efficiency  
4 will change with time.

5 So that, you know, when you spray early on  
6 and as time goes on after a certain amount of time, basically  
7 you say your sprays don't do anything anymore, I'm thinking  
8 it might be related to that. Was it a huge difference  
9 in the source term?

10 ERIC: I don't remember if we compared source  
11 terms. We were looking at --

12 GEORGE ATHEY: Okay.

13 ERIC: -- max dose rates.

14 GEORGE ATHEY: Yes.

15 ERIC: I'd have to go back and see if it  
16 made a difference in the source term.

17 GEORGE ATHEY: I'm curious why you're  
18 modeling sprays at all given the fact that there were  
19 probably no sprays.

20 ERIC: Well, we weren't modeling sprays.

21 GEORGE ATHEY: Oh, I see. I see, okay.

22 ERIC: When I was going through my set up,  
23 I just, you know, I changed it to the date of the time  
24 that we had the reading and stuck with that.

25 GEORGE ATHEY: Oh, and he changed the spray

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1 number as well.

2 ERIC: And he changed the spray time  
3 indicating that the sprays were turned off --

4 (Crosstalk)

5 ERIC: -- you know, some time before that.  
6 But he put in no chronology do we ever turn them on.

7 GEORGE ATHEY: Got you. I see now. So he  
8 had changed his to match the release time and you didn't  
9 assuming that they were off already anyway?

10 ERIC: Either way, yes. I mean --

11 GEORGE ATHEY: Yes, okay.

12 ERIC: There's two different times and dates  
13 for when we indicate sprays were off. But I always thought  
14 that RASCAL defaulted to the fact that sprays were off  
15 until you turn them on.

16 GEORGE ATHEY: Right, and it's supposed to.

17 ERIC: Okay. Well, it doesn't.

18 GEORGE ATHEY: Well, it sounds like somehow  
19 the timing in there is not getting set right. Do you  
20 have those cases saved?

21 ERIC: Yes.

22 GEORGE ATHEY: Could you email them to me?

23 ERIC: Okay.

24 GEORGE ATHEY: That way I can dig further  
25 into them and see why it's doing that.

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1 ERIC: Okay.

2 GEORGE ATHEY: And I'm going to have to send  
3 it off to the dose modeler, but at least he has something  
4 to look at though.

5 ERIC: Okay. Do we have your email here  
6 somewhere?

7 GEORGE ATHEY: You should somewhere. It's  
8 at Athey Consulting.

9 ERIC: Okay.

10 GEORGE ATHEY: All one word at  
11 frontiernet.net.

12 ERIC: Okay. Well if I can't, are you in  
13 your office?

14 GEORGE ATHEY: I will be. I just finished  
15 doing a bicycle ride.

16 ERIC: That's why you weren't answering.

17 GEORGE ATHEY: That's why I missed you, yes.  
18 I hadn't heard anything. I thought oh, they're probably  
19 doing fine. I'm going to take a bike ride. It's windy,  
20 but it's nice out.

21 ERIC: Right. Okay.

22 GEORGE ATHEY: I'll be in there tomorrow.  
23 Are you working tomorrow?

24 ERIC: Yes.

25 GEORGE ATHEY: Okay.

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1 ERIC: Do you want to just wait and we'll  
2 talk about it when you're here?

3 GEORGE ATHEY: Yes. We can do that. That's  
4 fine. I'll bring, well I'll try to, yes we can do that.  
5 Let's do that unless you need an immediate --

6 ERIC: No.

7 GEORGE ATHEY: -- fix.

8 ERIC: No. We're just backing up the, Rich  
9 and I have just decided that we'll back the sprays off  
10 to the time that we shut the reactor down.

11 GEORGE ATHEY: Well, I would make the spray  
12 thing match the time where you set the, in the release  
13 pathway screen where you set the sprays, if you set the  
14 sprays off at the same time you're setting your initial  
15 leak rate, whether it be design or total failure or  
16 something like that. Match your spray setting to that.

17 ERIC: But that gives us a lower number.

18 GEORGE ATHEY: Then when? Putting it back  
19 to the --

20 ERIC: Yes because that's what I did and  
21 I exceeded PHEs. I'm making this up, I don't remember  
22 specifically.

23 GEORGE ATHEY: Okay.

24 ERIC: If memory serves correctly, I  
25 exceeded tags out to 40 miles by indicating sprays were

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1 off at the same time that I failed containment. And  
2 Rich ran it with a failed containment at the same time  
3 I did, but indicated sprays off like a day or two earlier.

4 I think he had them matched up with the core  
5 unrecovery or something like that. And his results showed  
6 PHEs being exceeded ten miles further out than mine did.

7 GEORGE ATHEY: That's just weird.

8 ERIC: It was sure weird to me.

9 GEORGE ATHEY: Yes.

10 ERIC: You know, I got out the electronic  
11 copy so we have, you know, the workbook and the technical  
12 document and did word searches on containment sprays  
13 and I couldn't find anything on, I mean lots of discussion  
14 about what they do.

15 GEORGE ATHEY: Right. The modeling of it.

16 ERIC: How they function and that, but  
17 nothing about, you know, that you should turn them on  
18 at this time --

19 GEORGE ATHEY: Right.

20 ERIC: -- or you shouldn't turn them on at  
21 this time or if you do this, you know, no description  
22 of that.

23 GEORGE ATHEY: All right. Well, I have some  
24 time this afternoon I think. I mean I'll look into it  
25 a little bit this afternoon and see if I can figure out

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1 exactly what could be going on in the code. And then  
2 maybe by tomorrow I'll have a better handle on what's  
3 going on.

4 ERIC: Okay.

5 GEORGE ATHEY: So if you don't want to send  
6 them to me, I'll just get them tomorrow.

7 ERIC: Well, I'll look for, I can't imagine  
8 we don't have your --

9 GEORGE ATHEY: You got to have my email there  
10 somewhere. It was written on a page at one point.

11 ERIC: Let me just write it down. Fourteen  
12 pens and I can't have one. Okay. Tell me again.

13 GEORGE ATHEY: Atheyconsulting --

14 (Crosstalk)

15 ERIC: Of course, I need one that -- Athey

16 --

17 GEORGE ATHEY: You're working with  
18 government pens?

19 ERIC: Yes. Consulting, all one word.

20 GEORGE ATHEY: All one word, at  
21 frontiernet.net.

22 ERIC: Net.net. Okay.

23 GEORGE ATHEY: All right.

24 ERIC: I'll send them to you.

25 GEORGE ATHEY: I'll be in my office this

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1 afternoon if you need any more.

2 ERIC: All right.

3 GEORGE ATHEY: Otherwise, I'll see you  
4 tomorrow..

5 ERIC: Good enough. Thanks.

6 GEORGE ATHEY: Thanks. Bye.

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2 (CONFERENCE CALL INITIATED)

3 JESSICA KRATCHMAN: NRC Op Center, Jessica.

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 Jack Foster on the other line.

6 JESSICA KRATCHMAN: Hello?

7 JACK FOSTER: Hello.

8 JESSICA KRATCHMAN: Hi, Jack?

9 JACK FOSTER: Yes. How are you?

10 JESSICA KRATCHMAN: Good. How are you?

11 JACK FOSTER: Not too bad. You know, I talked  
12 to Tony and he mentioned that the RST was not going to  
13 meet on the bridge or they're going to cancel a meeting  
14 day because they had been together with us for the better  
15 part of the day. So I thought I'd call directly into  
16 the PMT.

17 JESSICA KRATCHMAN: Okay.

18 JACK FOSTER: Is that okay? What are you  
19 guys doing?

20 JESSICA KRATCHMAN: Yes, hang on. Let me  
21 get Lou. Hold on one second.

22 JESSICA KRATCHMAN: Yes, Jack?

23 JACK FOSTER: Yes. How's it going?

24 JESSICA KRATCHMAN: Good. How are you?

25 JACK FOSTER: Not too bad. Who am I speaking

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1 to?

2 JESSICA KRATCHMAN: This is Jessica  
3 Kratchman.

4 JACK FOSTER: Okay. Good to hear from you.

5 LOU BRANDON: And Lou Brandon.

6 JACK FOSTER: You know, we typically have  
7 a daily call. I guess it's been set up to talk about,  
8 you know, the CMT RST, just kind of like an overview.  
9 And I'm not sure if you're aware of that. Did you know  
10 about that?

11 LOU BRANDON: This is Lou Brandon.

12 JACK FOSTER: Yes.

13 LOU BRANDON: Jack, I didn't quite hear what  
14 you said. Could you say that once more?

15 JACK FOSTER: Yes. On our schedule somebody  
16 had set up an RST PMT daily call at 4:00 JST, Japanese  
17 Standard Time, and instead of calling the bridge I went  
18 ahead and decided just to call straight in from the HOO  
19 to the RS PMT.

20 LOU BRANDON: Okay.

21 JACK FOSTER: And the reason for that was  
22 is that because the RST had, we had been working with  
23 them all day long. They didn't feel like it was necessary  
24 to have that daily call.

25 LOU BRANDON: Understand.

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1 JACK FOSTER: Okay. So I'm here as sort  
2 of the interface with the Japan Team. And I guess we  
3 can just go over for the status update of what's going  
4 on.

5 LOU BRANDON: Okay.

6 JACK FOSTER: Okay. Who all do you have  
7 online there?

8 LOU BRANDON: Myself.

9 BOBBY HEAT (phonetic): This is Bobby Heat  
10 (phonetic), and I have some questions, you know, to ask  
11 about certain things. This is Bobby Heat calling. Hi,  
12 Jack. How are you?

13 JACK FOSTER: Okay. That sounds good. Do  
14 me a favor, you know, if I can answer them I will, but  
15 I would prefer for you to put them in an email and send  
16 them.

17 LOU BRANDON: Okay.

18 BOBBY: I could, you know, discuss you what  
19 we are asking for, if you wish.

20 JACK FOSTER: Okay.

21 LOU BRANDON: Let's hear what Jack has to  
22 say first.

23 BOBBY: Okay. Go ahead.

24 JACK FOSTER: Okay, yes. So some of the  
25 things that we've received, you know, I'm not sure if

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1 you checked the past emails that had come to us, but  
2 essentially we were working on basically the Naval  
3 Reactors.

4 Naval Reactors had taken some measurements  
5 and did some dose assessments of it and felt like that  
6 they needed to change the protective actions for citizens  
7 beyond the current 50 mile evacuation recommendation.

8 And I do get a chance to look at the evaluation  
9 of the data that the PMT did and shared that with DOE.

10 And they agree with, and I do too, I agree with your  
11 assessment.

12 LOU BRANDON: That's assessment of --

13 JACK FOSTER: That basically states, and  
14 also the EPA was involved. That representative believed  
15 that issuing an action for US citizens in Japan based  
16 on a one minute level, excuse me, on minute levels of  
17 EPA tags would set a precedent to initiate protective  
18 actions elsewhere including the US which we could have  
19 significant social and economic repercussions. And then  
20 below that, it goes to state that the levels of change  
21 are really insignificant.

22 LOU BRANDON: Good.

23 JACK FOSTER: Okay. So we're on board with  
24 that.

25 LOU BRANDON: That's a good stance to have,

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1 I think at this time.

2 JACK FOSTER: Right. And I'm not sure what  
3 the next step is. You know, I don't think it's ours.  
4 And that's one of the reasons why I brought it up.  
5 If we need to do something, just let us know.

6 LOU BRANDON: Last night they were pushing  
7 us to get everybody on the same page and come to consensus.

8 JACK FOSTER: And that's right. I think  
9 here at the Embassy, I've talked to the state people  
10 and also the DOE folks and of course my folks and yes,  
11 we're all on the same page with what's on that email  
12 and your analysis of the change. Okay?

13 LOU BRANDON: I think we're still divided.

14 JACK FOSTER: At Headquarters?

15 LOU BRANDON: Yes.

16 JACK FOSTER: At Headquarters, okay. Or  
17 just Naval Reactors in Headquarters?

18 LOU BRANDON: Naval Reactors in  
19 Headquarters.

20 JACK FOSTER: Okay. Yes, that's what I was  
21 thinking. I was thinking that, yes, that all players  
22 except for one are kind of like on the same page with  
23 this email. So who takes the next step to converge that  
24 divergence between Naval Reactors and everyone else?

25 LOU BRANDON: Who takes the next step?

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1 JACK FOSTER: Yes.

2 LOU BRANDON: Well as you pointed out, this  
3 was based on a very limited sample that was taken. And  
4 I think as we go forward in time --

5 JACK FOSTER: Exactly.

6 LOU BRANDON: We're going to see that the  
7 impact is decreasing or the potential.

8 JACK FOSTER: Exactly. You know by the way,  
9 DOE is pursuing to a certain degree that aspect also.  
10 Okay, and I was just trying to gather more data  
11 (indiscernible, possibly \*).

12 LOU BRANDON: I mean that's anything. And  
13 if they push us to come to agreement that you need to  
14 do these precautionary advisories or actions to stay  
15 out of a background type of (indiscernible, possibly  
16 \*), we shouldn't --

17 (Crosstalk)

18 JACK FOSTER: I agree. I guess there is  
19 no action, you know, even for the change of the protective  
20 actions right now. I mean, we don't intend to do that.

21 So I guess the ball is sort of in Naval Reactors' court.

22 Have we told them? Have we sent them this analysis  
23 and this report?

24 LOU BRANDON: That's good. They can do what  
25 they need to do, but we shouldn't come onto that page

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1 with them.

2 JACK FOSTER: I agree, I agree. Okay.

3 LOU BRANDON: Okay. Next issue.

4 JACK FOSTER: Next issue, if you don't mind  
5 me continuing. I did read the draft criteria for relaxing  
6 of protective action recommendations. I shared that  
7 also with DOE and the state folks and, you know, they  
8 just have the draft and also for comment and review.

9 And I heard Jessica in her email say that  
10 they were going to do some fine tuning on it and send  
11 it back. I did look at the first go around. It looked  
12 acceptable to me, and DOE has no problem with it either.

13 BOBBY: Yes.

14 LOU BRANDON: Okay good. Good.

15 JACK FOSTER: Okay. And that's about all  
16 I have, you know. So Bobby, what you got for me?

17 BOBBY: Yes. You know, I'm looking for  
18 distant field sampling and data at different locations  
19 if you have, specifically for soil, (indiscernibly,  
20 possibly \*) and dairy product.

21 JACK FOSTER: Okay. You know what? I will  
22 see what I can find for you, but that is sort of the  
23 search for the Holy Grail so to speak to serve the eternal  
24 or continual search that I have and not only get that  
25 data, but to get it in a format that we can understand.

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1                   And then secondly get it into a situation  
2 where we can, you know, consistently receive it. So  
3 do me a favor and be articulate about it. Send me what  
4 you need.

5                   Currently right now everything I get, and  
6 if you look at the line of emails to PMT12, you know,  
7 I'm sending stuff. And it's almost like some of the  
8 things comes across my desk so quick, I just kind of  
9 like lick a stamp, put it on it, and send it to PMT12  
10 without really even hardly looking at it.

11                   So what I do expect is that if I do something  
12 like that, if you don't need it or if you don't want  
13 it, let me know. Okay? Because that way I'll stop sending  
14 that particular group or have that particular data from  
15 being sent to you. Okay?

16                   And then the second thing, Bobby, just send  
17 me what you need. And if there's any particulars I'll  
18 see if I can dig it up or find out where it is, there's  
19 so much stuff. And I would offer too that you guys look  
20 on the Internet. I know that it'll be in Japanese or  
21 Japan language, but there's a ton of stuff out there  
22 and it's growing everyday when it comes to data.

23                   LOU BRANDON: Jack, are we working closely  
24 with DOE in getting their --

25                   JACK FOSTER: You know what? Everyday I'm

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1 up there. And I'm not sure if you noticed it, but you  
2 probably got an extra ton of data coming from them over  
3 the last couple of days because I have given them the  
4 PMT12 email address.

5 And I said look, everything you send to me,  
6 make sure that the PMT12 gets it, especially when it  
7 comes to data. You should have adjusting pathway data,  
8 monitoring data, coming your way if you check that PMT12.

9 Now I can't guarantee it --

10 LOU BRANDON: And they're monitoring within  
11 what --

12 JACK FOSTER: -- but I have seen some things  
13 that they say they have sent.

14 LOU BRANDON: Are they taking field  
15 measurements within ten miles?

16 JACK FOSTER: Of the site?

17 LOU BRANDON: At the site.

18 JACK FOSTER: At the site.

19 LOU BRANDON: But not beyond the site.

20 JACK FOSTER: I can't confirm or deny that,  
21 but I will ask them. Is DOE doing it or are you saying

22 --

23 LOU BRANDON: Yes. Is DOE monitoring out  
24 10 miles, 20 miles thinking --

25 JACK FOSTER: The only thing I can say is

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1 I know they're doing the AMS, the air monitoring that  
2 close.

3 LOU BRANDON: We're getting some great AMS  
4 data.

5 (Crosstalk)

6 JACK FOSTER: -- enough to (indiscernible,  
7 possibly \*) messing around.

8 LOU BRANDON: But they may be taking ground  
9 base samples and --

10 JACK FOSTER: And that's what I believe  
11 they're doing.

12 BOBBY: Jack, also I have a question for  
13 --

14 (Crosstalk)

15 JACK FOSTER: Okay. I'm trying to take notes  
16 fast and furious. So Bobby, please put this down in  
17 an email so it doesn't fall between the cracks, okay?

18 BOBBY: Okay. Just to mention that the  
19 guidelines that they have for radio nuclides in food.

20 Do they adopt WHO and (indiscernible, possibly \*) with  
21 guidelines or for the Japanese they are using there was  
22 a question in this regard?

23 JACK FOSTER: I believe it's WHO. Again,  
24 put it in the --

25 BOBBY: Okay. I'll put in the questions

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1 (indiscernible, possibly "COD").

2 JACK FOSTER: -- in the questions. I'll  
3 find out for sure. That might be a little more difficult  
4 to find out because depending on who you talk to in  
5 (indiscernible, possibly "INSO") JNEF (phonetic) or even  
6 TEPCO, you know, you have to find the right person that  
7 knows this stuff.

8 BOBBY: Yes. It's for the import/export.  
9 We'd like to compare what they have. What kind of  
10 concentrations versus ours because I think they use the  
11 (indiscernible, possibly \*), but I'm not sure about that.

12 JACK FOSTER: I would offer too Bobby, if  
13 you want to take it from the other side, WHO has their  
14 own home page and they've got a sort of frequently asked  
15 question about the issues that are going on in Japan  
16 right now and it may have something like that in there,  
17 okay?

18 BOBBY: Okay.

19 JACK FOSTER: It's www.who., you know, if  
20 you Google it, you'll definitely get the home page and  
21 it does have some pretty good information.

22 BOBBY: Okay.

23 JACK FOSTER: But send the question to me  
24 anyway, and I'll track it down for you Bobby.

25 BOBBY: Okay, I will. I will send, you know,

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1 I have three questions. I will send them to you.

2 JACK FOSTER: Okay.

3 BOBBY: Thank you.

4 JACK FOSTER: So do we have anything else?  
5 Lou, or Bobby, or Jessica?

6 BOBBY: How about the current status of what  
7 is the status for Reactors 1 and 4? You have any new  
8 information, --

9 JACK FOSTER: Okay, you know what?

10 BOBBY: -- the releases.

11 JACK FOSTER: I'm assumed to say this but,  
12 you know, I'm a reactor guy at heart. But I've been  
13 doing a lot of the foot work on the PMT side so I hadn't  
14 been able do the reactor. But if you can wait until  
15 the turnaround tomorrow at 4:00 when we have this meeting,  
16 I'll have a reactor person that's been following it all.

17 But the short answer is that we actually  
18 went with TEPCO for several hours today, and the RST  
19 was there, and our folks were there, and a whole cast  
20 of technical scientists about, you know, the status and  
21 what's going on with it. And it's probably the best  
22 meeting that we've had with the licensee who is TEPCO  
23 since we've been here and got a lot of data.

24 In fact, you know, if you look over your  
25 shoulder in the ET room, they just got through talking

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1 about that meeting just minutes before I called. But  
2 yes, you know, the reactors as they are right now, if  
3 you're interested in spent fuel, I know a little bit  
4 about it.

5 But, you know, what I would offer is that  
6 the NRC, I think it's the RST, no it's a LA1 or something  
7 like that, the Liaison Team, sends out a status update  
8 every day at 6:00 and 6:00 local time, your time.

9 BOBBY: Okay.

10 JACK FOSTER: And it goes over each reactor  
11 and kind of gives the latest on that up to the minute.

12 And most of that information comes from the documentation  
13 or the data that we get here.

14 BOBBY: Okay. A good suggestion. Thank  
15 you.

16 JACK FOSTER: Okay. You know, if you think  
17 about it, there's six reactors, six spent fuel pools.

18 And of it all, there's not a problem with 5 and 6 on  
19 the reactor side. But the spent fuel pools are still  
20 an issue in this.

21 There's a little something different about  
22 each plant when it comes to whether the spent fuel pool,  
23 whether they think it's leaking or if they think it's,  
24 you know, watering it or not watering it. And the same  
25 thing about the reactors, where they're filling up, how

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1 they're filling up.

2 I can tell you some general stuff, you know,  
3 about how they're getting water to it or the different  
4 methods of doing that. But right now I will say that  
5 even with this meeting we had with TEPCO today, it's  
6 still debatable about the data we get and the integrity  
7 of that data.

8 You know, it seems that every time we have  
9 a meeting, that it's just a little bit of something  
10 different that's unexplainable. And then when we go  
11 back and ask, you know, they kind of patch that bit of  
12 data up, but then we find out other things.

13 I think in PMT space, we're in a lot better  
14 shape when it comes to getting data and understanding  
15 it. At least now we are, that we're monitoring some  
16 of our data.

17  
18  
19 (b)(5)  
20  
21  
22

23 But now that we actually have, you know,  
24 planes in the air and doing some of our own monitoring,  
25 I think we can probably look forward to in the future

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1 getting our hands around some of this RASCAL 1 and some  
2 of the analysis that we're doing and then make it a little  
3 bit better. Okay.

4 But send me that email and I'm going to leave  
5 here probably in a couple of hours. And the DOE guys  
6 have probably already left, but I'll get with them first  
7 thing in the morning and see if we can track and answer  
8 your questions.

9 But yes, on the other two items that I talked  
10 about, the issue with, you know, the protective actions  
11 and the actual relaxing of the protective actions.

12 I think those are good products, especially  
13 the relaxing of the protective actions and just let me  
14 know what I need to do to make sure that we have the  
15 right people that know about it.

16 I guess after we kind of put our thumbs up  
17 and say that everybody says it's okay, then it'll have  
18 to be somehow made known to the Embassy here in a formal  
19 manner, right?

20 LOUBRANDON: Yes. I don't think we're there  
21 yet. We're getting the impression that things are stable  
22 enough that we won't have any further significant  
23 releases.

24 JACK FOSTER: Oh, I absolutely agree. And  
25 I think it's really prudent that we think about our exit

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1 strategy on this. I don't know if it'll be a week, or  
2 a month, or six months. But yes, you don't want to wait  
3 until the day of and say well how the hell do we get  
4 back out of this thing.

5 LOU BRANDON: So moving forward --

6 JACK FOSTER: I don't know who came up with  
7 the idea, but yes it's brilliant. Okay?

8 LOU BRANDON: All right.

9 JACK FOSTER: I appreciate it.

10 BOBBY: Thank you.

11 JACK FOSTER: If you got anything else, let  
12 me know. Bobby send me that email, please.

13 BOBBY: Yes. Thank you.

14 JACK FOSTER: Okay. We'll talk to you guys  
15 later. Hey Brandon?

16 LOU BRANDON: Yes?

17 JACK FOSTER: Just want to let you know that  
18 I'm going to probably be back and all of us are probably  
19 going to be back within, like, a week or so.

20 LOU BRANDON: Okay.

21 JACK FOSTER: So, you know, if you need some  
22 help down there let me know.

23 LOU BRANDON: All right.

24 JACK FOSTER: Okay.

25 LOU BRANDON: Won't expect you to tonight?

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1 JACK FOSTER: No, I won't be there tonight.

2 LOU BRANDON: By tomorrow morning.

3 JACK FOSTER: I wish. But, you know, I'm  
4 thinking some time probably the middle of next week I'll  
5 be available if you need some help.

6 LOU BRANDON: Okay, sounds good. They're  
7 scheduling up through the 15th right now. But I'm not  
8 sure how long this will go forward.

9 JACK FOSTER: That's true, that's true.  
10 Okay. You guys take care.

11 LOU BRANDON: See you, Jack.

12 JACK FOSTER: Bye bye.

13

14

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(CONFERENCE CALL INITIATED)

JESSICA KRATCHMAN: Op Center, Jessica.

HEADQUARTERS OPERATIONS OFFICER: Hello.

I have Jack Foster on the other line.

JESSICA KRATCHMAN: Okay.

JOHN TAPPERT: Hey, Jack.

JACK FOSTER: Hey, Lou. How are you doing?

JOHN TAPPERT: John Tappert. We're closing up.

JACK FOSTER: Okay. This is Lou, right?

JOHN TAPPERT: This is John Tappert.

JACK FOSTER: Oh, John. How are you doing?

Are you the Director there now today?

JOHN TAPPERT: Yes. What can I do you for?

JACK FOSTER: Okay. You're actually here working there, okay. We're going to have a meeting tomorrow regarding the Naval Reactors issue. They did a sampling.

I'm not sure if you're familiar with the calculations in the analysis that PMT did. Hold on, let me close this door. There's people outside making noise. So are you aware of that issue?

JOHN TAPPERT: I'm aware that there was a question about how they were considering withdrawal of

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1 all service members, and we wanted to understand that.

2 JACK FOSTER: Exactly. And they sent more  
3 data.

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

7 JOHN TAPPERT: And they talked them down  
8 from another protective measure.

9 JACK FOSTER: Exactly. So what I want to  
10 do right now is we're going to meet with the Naval Reactor  
11 guy that's here at the Embassy. And I just wanted to  
12 make sure, you know, that the Headquarters PMT was sort  
13 of represented. So it'll be 10:00 tomorrow morning and  
14 that'll be JST, you know, local time here.

15 JOHN TAPPERT: Ten o'clock tomorrow.

16 JACK FOSTER: And it's basically not  
17 necessarily to do battle or whatever with, you know,  
18 the Navy guys. But it's primarily to try to figure out  
19 some sort of compromise or something that we can agree  
20 upon because ultimately we're going to have to, you know,  
21 go and find the Ambassador here and tell him what we're  
22 going to do or what we're not going to do.

23 JOHN TAPPERT: And this is all a protective  
24 action recommendations for Americans at the Navy base,  
25 right?

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1 JACK FOSTER: Yes, exactly. And I think  
2 that what it does in Embassy space is it actually, you  
3 know, sets a precedence for, you can't have half the  
4 Americans doing one thing and the other half doing the  
5 other thing. I think that was part of the earlier  
6 discussions.

7 And, you know, there's a lot of issues  
8 associated with the data points that they were using  
9 and the fidelity of the data, and whether it was correct  
10 or not.

11 JOHN TAPPERT: Is that Yukusca (phonetic)  
12 or Yokahama (phonetic)?

13 JACK FOSTER: Yukusca. I'm pretty soon it's  
14 Yukusca, okay? You know, if you look in PMT12, they  
15 sent me an email with all the details about it several  
16 hours ago.

17 JOHN TAPPERT: Okay.

18 JACK FOSTER: You know, I know it's going  
19 to be tomorrow. But whoever, you know, that you have  
20 to go on it Johnny, they probably should look at that  
21 because we'll be speaking from that because I think it  
22 makes a great point. Whoever wrote that did a good job,  
23 okay?

24 JOHN TAPPERT: Okay. So it's 10:00  
25 tomorrow.

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1 JACK FOSTER: And I'll call the PMT, okay?

2 JOHN TAPPERT: Yes. And that's, okay.

3 JACK FOSTER: So that would be, that would  
4 be probably, let's see, 10:00 tomorrow morning would  
5 be 9:00 tomorrow night for you or tonight for you.

6 JOHN TAPPERT: 9 p.m., okay.

7 JACK FOSTER: Okay. And what I'll do is  
8 once I shore everything up and get everything exactly  
9 where I want it tomorrow morning when I come in about  
10 6:00 which will be about two or three hours before the  
11 meeting or four hours before the meeting, I will send  
12 out, you know, a confirmation to PMT12, okay?

13 JOHN TAPPERT: Yes. Someone's always  
14 monitoring that. And who's going to participate in that?  
15 That's going to be Naval Reactors?

16 JACK FOSTER: Naval Reactors, we'll probably  
17 have a guy that's a staff member from the State Department,  
18 you know, the Embassy, and also a couple of DOE folks.

19 JOHN TAPPERT: All right.

20 JACK FOSTER: The idea is to just kind of  
21 come to some kind of conclusion. And if it doesn't happen,  
22 then it was going to go back up to the higher ranks again,  
23 you know. And that may be what happens.

24 JOHN TAPPERT: Was this based on that one  
25 sample, that one air sample?

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1 JACK FOSTER: Insane. I think it's insane.  
2 You know, it's like a lot of work for a sample that  
3 --

4 JOHN TAPPERT: That might be cross  
5 contaminated.

6 JACK FOSTER: Yes. That's the idea right  
7 there. I mean most people do think it's cross contaminated.  
8 I think a lot of --

9 JOHN TAPPERT: Now, the Naval Reactors --

10 JACK FOSTER: You know John, work equals  
11 force times distance.

12 JOHN TAPPERT: I've heard of that.

13 JACK FOSTER: Well, I don't care how much  
14 force or how much distance we got, it's not going to  
15 be a whole lot of product, you know.

16 JOHN TAPPERT: Because we have actually a  
17 Naval Reactors guy here tonight. And he was saying they're  
18 picking up detectable contamination at that base. So  
19 he thinks they're getting some little deposition out  
20 there.

21 JACK FOSTER: Okay. I'm sure that Troy  
22 Mueller will probably have that data and we can bring  
23 it up to him tomorrow. You know what I'm saying?

24 JOHN TAPPERT: Now --

25 JACK FOSTER: To a certain degree, I can

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1 understand the Navy side of it. But, you know, what  
2 do you think John?

3 JOHN TAPPERT: I never cease to be amazed.

4 JACK FOSTER: Yes, I'm the same way. I'm  
5 the same way, you know. I don't know. I think I'm getting  
6 ready to go home, back to the hotel.

7 JOHN TAPPERT: Okay.

8 JACK FOSTER: So I'm going to stop thinking  
9 about it.

10 JOHN TAPPERT: But if the NRC makes a  
11 recommendation to the, well that's for US citizens.  
12 Does DoD make their own call I assume, right?

13 JACK FOSTER: DoD, I'm sure would make their  
14 own call. But there will have to be some type of  
15 understanding at least that, you know, the State  
16 Department has and EPA has with DoD because I think we're  
17 sort of in kind of like no man's land when we talk about  
18 --

19 JOHN TAPPERT: About the precedent.

20 JACK FOSTER: What's that?

21 JOHN TAPPERT: The precedent I think has  
22 people nervous.

23 JACK FOSTER: Exactly. You know,  
24 California, not only what happens if he does this and  
25 then the precedent set for California and for at least

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1 the rest of Japan, the non-DoD side of it.

2 JOHN TAPPERT: I think it's important that  
3 we don't equate detectable with dangerous.

4 JACK FOSTER: Right, exactly, exactly. So  
5 bring that to the table. I know you probably won't be  
6 there. I wish you were. But okay. Well, I'm going to  
7 head out John.

8 JOHN TAPPERT: All right, man.

9 JACK FOSTER: How is everything going in  
10 the big city of DC?

11 JOHN TAPPERT: Oh we're doing fine. How  
12 you guys doing?

13 JACK FOSTER: Yes, I tell you, you know,  
14 we've only been here not even two weeks and it feels  
15 like a lot longer than that.

16 JOHN TAPPERT: When are they shipping you  
17 guys back?

18 JACK FOSTER: I'm hearing that they're going  
19 to ship the new guys in around the 24th or 25th, or something  
20 like that or they may even send a few of them even earlier.

21 But I'm hearing that they're going to do a couple of  
22 day transition, so it'll probably be early next week.

23 JOHN TAPPERT: Every morning --

24 JACK FOSTER: (Indiscernible, possibly \*).

25 JOHN TAPPERT: -- I wake up and I hope to

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1 hear the news that it's under control, but it's just  
2 not happening.

3 JACK FOSTER: Yes, yes.

4 JOHN TAPPERT: I mean, and you know that  
5 last brief? It didn't sound like you were in there,  
6 but Casto and --

7 JACK FOSTER: Yes, I was there.

8 JOHN TAPPERT: Okay.

9 JACK FOSTER: I was there, yes. You know,  
10 it just swings wildly back from one day to another.  
11 Actually hour to hour.

12 JOHN TAPPERT: Well, you know, you hear the  
13 thing we're going to get the power line in and then  
14 everything will be roses. And then they say but there's  
15 nothing for it run.

16 JACK FOSTER: Exactly.

17 JOHN TAPPERT: Everything's broke.

18 JACK FOSTER: I think what we have is just  
19 too many cooks in the kitchen on this thing. I'm not  
20 saying the NRC, I'm saying --

21 JOHN TAPPERT: No, I mean we're part of it.  
22 You know, and we want to help so much, but you know.

23 JACK FOSTER: Yes.

24 (b)(5)  
25

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1 (b)(5)

2  
3 (b)(5)

4  
5  
6  
7 (b)(5)

8  
9 JOHN TAPPERT: The latest --

10 JACK FOSTER: So for the most part out here  
11 we've learned that okay, you know, thanks for giving  
12 it to us. It may or may not be correct, you know, because  
13 you can ask three organizations the same question and  
14 get three different answers.

15 JOHN TAPPERT: And you can probably ask three  
16 people in this room.

17 JACK FOSTER: Oh yes, yes. Depending on  
18 what they read, you know. So, you know, it's been a  
19 frustrating thing because I think that everybody here  
20 is really hard charged to let's make a better thing.  
21 Let's do great things here.

22 And it is disappointing when, you know, you  
23 get information and it just doesn't make sense. You  
24 know, what do you do with that? You can't throw it away.

25 JOHN TAPPERT: Yes. What I'm seeing then

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1 is that they're rallying a total of 100 Toshiba engineers  
2 to come to the rescue --

3 JACK FOSTER: Yes.

4 JOHN TAPPERT: -- to get even more help.

5 JACK FOSTER: Yes. And that's the thing  
6 too, is that these guys got some serious operating  
7 experience.

8 JOHN TAPPERT: Yes.

9 JACK FOSTER:

10  
11 (b)(5)  
12  
13

14 JOHN TAPPERT: Well sometimes you can't get  
15 tunnel vision. So sometimes a second pair of eyes isn't  
16 the worst thing.

17 JACK FOSTER: And that's probably the case,  
18 you know, a lot of times too. But okay, John. I'll talk  
19 to you tomorrow. You working tomorrow?

20 JOHN TAPPERT: Yes. I'll be mid-shift  
21 tomorrow.

22 JACK FOSTER: Mid-shift tomorrow, okay.  
23 I'll talk to you then.

24 JOHN TAPPERT: Okay. Take care, Jack.  
25

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(CONFERENCE CALL INITIATED)

HOLLY HARRINGTON: This is Holly Harrington.

JOHN LUBINSKI: Holly, John Lubinski. I'm over in the Op Center in the PMT and here with Tim Reilly (phonetic). I'm going to put you on speaker, is that okay?

HOLLY HARRINGTON: Yes. I got to rid of my other call. Let me put your on hold for a second.

JOHN LUBINSKI: Okay. She's getting rid of her other call.

(Pause)

HOLLY HARRINGTON: I'm sorry. Okay, you've got me now.

JOHN LUBINSKI: No problem. I got you on speaker phone with Tim.

HOLLY HARRINGTON: Okay.

JOHN LUBINSKI: Tim had a request that came through you, and he brought it over to us and we just want to get a clear understanding that we can coordinate directly with you.

HOLLY HARRINGTON: Okay. My understanding from Sarah Moross (phonetic) is that the NRC put together some sort of fact sheet for FEMA that explained our rationale for the 50 mile EPZ recommendation to US citizens

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1 in Japan.

2 JOHN LUBINSKI: Okay.

3 HOLLY HARRINGTON: That's what I'm looking  
4 for.

5 JOHN LUBINSKI: Okay. So it was a fact sheet  
6 that we gave to FEMA?

7 HOLLY HARRINGTON: That was the way it was  
8 characterized to me. Let me just go back and see what  
9 --

10 JOHN LUBINSKI: And what you're looking --

11 HOLLY HARRINGTON: Okay. This is directly  
12 from Sarah who unfortunately doesn't come back in until  
13 3:00 which is why I'm scrambling.

14 We put together an info sheet with FEMA that  
15 I'll pull the information from. I don't know who we  
16 is. I don't know who the information sheet was for because  
17 we in OPA have never seen it. But that's what I'm looking  
18 for because it means that there's some already blessed  
19 language on this topic.

20 JOHN LUBINSKI: Okay. And she was on the  
21 night shift, she was at 3 to 11?

22 HOLLY HARRINGTON: Correct. And so she's  
23 not coming back until 3:00 and I need it before then.

24 JOHN LUBINSKI: Right. Okay. We put out  
25 some information we have that supports that fact sheet,

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1 but we don't have a copy of that fact sheet. We'll try  
2 to scramble in here and see what we can find. No, this  
3 would be on our, I can't imagine --

4 HOLLY HARRINGTON: Anyblessed language that  
5 you have that you've been using in any capacity that  
6 we can use to explain this to the public would be very  
7 useful.

8 JOHN LUBINSKI: Okay.

9 TOM REILLY: And I'm going to presume here  
10 that one of pieces of information that you want is that  
11 50 mile EPZ is kind of specific to the Fukushima, the  
12 number of reactors, and the amount of spent fuels?

13 HOLLY HARRINGTON:

14 (b)(5)

16 TOM REILLY: Right.

17 KATHERINE:

18 (b)(5)

20 HOLLY HARRINGTON: Is this Katherine?

21 KATHERINE: Yes.

22 HOLLY HARRINGTON: We're talking about  
23 evacuation.

24 KATHERINE: Yes, but we expand as necessary.

25 HOLLY HARRINGTON: Okay, Kathy, you have

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1 to understand. This is the problem, okay? Region 1 is  
2 getting hammered by Indian Point and others who've never  
3 seen a 50 mile evacuation EPZ recommendation from the  
4 NRC.

5 We need to explain to them our rationale  
6 for why we did this in Japan when it's not something  
7 we regularly plan for at our own plants. This is the  
8 problem.

9 JOHN LUBINSKI: Okay.

10 HOLLY HARRINGTON: If you go online, it's  
11 a ten mile EPZ with a 50 mile ingestion, not a 50 mile  
12 evacuation.

13 JOHN LUBINSKI: All right.

14 HOLLY HARRINGTON: So we need to be able  
15 to explain why we did this so that we can help out Region  
16 1.

17 JOHN LUBINSKI: And I think what Katherine  
18 was trying to clarify for you, when we say that is if  
19 these exact conditions occurred at plant like Indian  
20 Point in the United States --

21 KATHERINE: And they happen to have several  
22 more reactors on site.

23 JOHN LUBINSKI: Right.

24 HOLLY HARRINGTON: Well, then that's fine.  
25 Then that's the rationale. Then that's the information

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1 that we need, okay, so that the 50 mile EPZ recommendation  
2 in Japan was based on an unusual set of circumstances  
3 that's not duplicated in the United States.

4 JOHN LUBINSKI: And what I'm going to tell  
5 you is that duplicated in the United States, the fact  
6 she's not going to say that, it's going to say here's  
7 exactly the conditions of the plant that were in Japan  
8 that caused us to get here.

9 That second half of how does this plant and  
10 these conditions compare to each plant in the United  
11 States, we're not doing that one.

12 HOLLY HARRINGTON: Well give us what you  
13 have and then we may have to have additional language  
14 to help Region 1.

15 JOHN LUBINSKI: Got it. Okay.

16 HOLLY HARRINGTON: But, you know, at least  
17 if you've got blessed language, it gives us something  
18 to build from.

19 JOHN LUBINSKI: Great. Okay.

20 HOLLY HARRINGTON: All right. Thank you.

21 JOHN LUBINSKI: Bye.  
22  
23  
24  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHY BROCK: Protective Measures.

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 Chairman Yasko on the other line.

6 KATHY BROCK: Okay. Hi, this is the  
7 Protective Measures Team.

8 CHAIRMAN YASKO: Hi. Who's this?

9 KATHY BROCK: Kathy Brock.

10 CHAIRMAN YASKO: How are you, Kathy?

11 KATHY BROCK: Oh pretty good today. How  
12 are you?

13 CHAIRMAN YASKO: Do we have, I know there's  
14 always talk about these runs that DOE's doing on all  
15 kinds of things and we're getting all kinds of weird  
16 results, those are my words.

17 KATHY BROCK: We're on a recorded line.

18 CHAIRMAN YASKO: Do we have a breakdown in  
19 particular for the thyroid dose, the contribution to  
20 that dose over time.

21 MALE PARTICIPANT: And you're referring to  
22 the results that showed a 35 REM dose to children in  
23 Alaska?

24 CHAIRMAN YASKO: Yes.

25 MALE PARTICIPANT: Okay. And you want a

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1 breakdown of the contribution of the iodine to that dose?

2 CHAIRMAN YASKO: Correct.

3 MALE PARTICIPANT: We just put a call into  
4 DOE this morning to get a clarification of that. Bruce  
5 Watson had questions about the dose. What are the  
6 contributions that are causing that iodine dose and what  
7 were the questions you asked DOE this morning and answers  
8 you got?

9 BRUCE WATSON: Yes, basically we asked them  
10 the assumptions in their model that are used to calculate  
11 the milk thyroid doses.

12 CHAIRMAN YASKO: Okay.

13 BRUCE WATSON: Are you assuming that this  
14 cow is there first of all and that the cow eats the grass  
15 for a year that it's contaminated at these maximum levels?

16 CHAIRMAN YASKO: Yes.

17 BRUCE WATSON: And so they're supposed to  
18 get right back to us. Apparently, the FDA is also directed  
19 them on some clarifications for the food pathways.

20 CHAIRMAN YASKO: Okay.

21 BRUCE WATSON: And so they're trying to  
22 adjust all their thinking to those what FDA has directed  
23 to.

24 CHAIRMAN YASKO: Well at a minimum I guess  
25 I'd like, I mean if it's a cow, first of all I don't

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1 know how iodine ingestion matters over a year because  
2 obviously the half life of the iodine, there's no iodine.

3 I mean if we have a four or five day release,  
4 after a month, we're at four half lives. I mean, there's  
5 no iodine left after a month.

6 BRUCE WATSON: Right. And that's what we  
7 wanted to clarify with them, what kind of timeframes  
8 were they assuming. And you know, quite frankly, if  
9 you have a single puff as you say, it wouldn't result  
10 in the iodine being on the grass nor going into the cow  
11 for an extended period.

12 CHAIRMAN YASKO: Right. And maybe we can  
13 just get, so I think there's two pieces of information  
14 that I would like to have. One is what the actual activity  
15 levels are for the iodine from the plume. The model  
16 must be able to tell us that.

17 And then and again over time, so I'd like  
18 that on a time-based understanding because if their model  
19 is showing that there's iodine around two months after  
20 the plume, then there's obviously a problem with the  
21 models.

22 BRUCE WATSON: It is an extended release  
23 going on forever.

24 CHAIRMAN YASKO: Right, yes, exactly.  
25 That's not realistic because that gives you an infinite

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1 quantity of iodine, which is not possible. And then  
2 we're over the contributions, you know, in particular  
3 just even to the dose, the contributions to the dose  
4 over time.

5 So again if what their model is showing is  
6 that after five months, you know, that you still get  
7 another 5 REM after five months, clearly there's something  
8 wrong with the model because there will be no iodine  
9 at that point that could be contributing any dose, or  
10 additional dose after that point neither in the grass  
11 nor in the thyroid of anybody who would have taken up  
12 any iodine.

13 So if you could, as you're talking to me,  
14 try and get those answers in particular because I think  
15 it actually may be more useful to actually just have  
16 the particulate matter and the concentration levels and  
17 the activity level because from there we can I think,  
18 I'm assuming we will reinforce the understanding that  
19 the concentrations are incredibly low and couldn't  
20 possibly contribute to health consequences.

21 And then somehow they're summing those up  
22 or they're assuming things that don't really happen to  
23 somehow get these large doses to the thyroid.

24 But I think maybe just working back one level  
25 of data so we get out of the vagaries of the iodine uptake

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1 and at least just get an understanding of what the iodine  
2 concentrations are because then again, I mean, you know,  
3 if the concentrations turn out to be at a  $10^{-7}$  microcuries  
4 per milliliter level. Then we know okay, we do have iodine  
5 doses that could be approaching limits of significance.

6 But if we're only seeing iodine  
7 concentrations from the modeling that are in the order  
8 of  $10^{-9}$ ,  $10^{-10}$  microcuries per milliliter than there's  
9 just no way that those are going to contribute those  
10 kind of REM doses.

11 BRUCE WATSON: I agree. One of the points  
12 of clarification I asked them to verify was the status  
13 of dairy production in the state of Alaska. And basically  
14 what dairy production is there during the winter is on  
15 stored feed.

16 CHAIRMAN YASKO: Yes.

17 BRUCE WATSON: And so the grass issue becomes  
18 kind of moot, too.

19 CHAIRMAN YASKO: Yes, yes. Okay.

20 BRUCE WATSON: And so they're going to also  
21 take this FDA guidance and some of these pathways they  
22 maybe considering them not applicable in future releases.

23 CHAIRMAN YASKO: Okay. Okay, good.

24 BRUCE WATSON: So they're trying to clarify.

25 CHAIRMAN YASKO: Good. Well, I appreciate

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1 that. Well if you keep me apprised, I'd appreciate it.

2 BRUCE WATSON: Okay.

3 CHAIRMAN YASKO: Thanks so much. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHY BROCK: Protective Measures Team.

4 HEADQUARTERS OPERATIONS OFFICER: Yes, this  
5 is the HOO. I have Anderson on the other line. I'm going  
6 to connect you.

7 KATHY BROCK: Thank you. (Indiscernible,  
8 possibly \*) are you there?

9 ELLEN ANDERSON: Yes. I'd like to patch  
10 to the PMT, please.

11 KATHY BROCK: You've got it.

12 ELLEN ANDERSON: Bruce Watson, please.

13 KATHY BROCK: We're here. Who do we have?

14 ELLEN ANDERSON: Ellen Anderson from the  
15 Nuclear Energy Institute.

16 KATHY BROCK: Hi there, how are you? This  
17 is Kathy Brock. We have John Lubinski and we have Bruce  
18 Watson.

19 ELLEN ANDERSON: Oh, very good. We have  
20 a host of people here from industry and from NEI, and  
21 EPRI.

22 KATHY BROCK: Okay. And I'll remind you  
23 on a recorded line.

24 ELLEN ANDERSON: Okay, that's fine. We're  
25 here and I believe that Ralph Anderson and Bruce Watson

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1 set up this call to discuss the dose calculations that  
2 you guys calculated. The folks in this room are health  
3 businesses mainly.

4 We do have a fuels expert here as well.  
5 So we just wanted to have this conversation about the  
6 assumptions and default values, and things that were  
7 used as part of the calculations.

8 KATHY BROCK: Okay.

9 ELLEN ANDERSON: Okay.

10 KATHY BROCK: We'll give you a framework  
11 I suppose of where we were at the time, which was kind  
12 of a difficult moment. You know, normally when we have  
13 an event in the US, we have much better data. We've  
14 got (indiscernible, possibly "IRDS") and we're able to  
15 make some assessments on actual data.

16 What we had here was nothing. It was all  
17 just based on what we were seeing on TV. You know, there  
18 was very little data. We didn't have a single dose rate  
19 measurement to speak of.

20 So that gives a little bit of context around  
21 what we were doing. But you saw the press release that  
22 we did two RASCAL runs.

23 ELLEN ANDERSON: Okay.

24 KATHY BROCK: And we can share with you,  
25 let me see, some of the assumptions we used to come up

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1 the numbers. Is that what you're looking for?

2 ELLEN ANDERSON: Yes, we are. Just for your  
3 information as far as the industry is concerned, we at  
4 NEI are not performing dose calculations. However, we  
5 do have a group of folks down at INPO who are taking  
6 the information that we're finding in any possible way  
7 we can and calculating as well.

8 So one of the things we want to be sure that  
9 if we are ever questioned about numbers or methodologies  
10 or whatever, we would be able to understand the difference  
11 between your calculations, your results, and what we  
12 have found.

13 KATHY BROCK: Okay.

14 ELLEN ANDERSON: Okay. And that's the  
15 reason why we really want to do this. We want to be  
16 able to exchange information and data as best we can.

17 KATHY BROCK: Okay.

18 ELLEN ANDERSON: Okay.

19 KATHY BROCK: All right, I'll start. And  
20 Bruce, you jump in because you are more into it. So  
21 I'm just really taking a look at the summary sheet that  
22 the dose assessors, you know, their input.

23 ELLEN ANDERSON: Okay.

24 KATHY BROCK: So let's start with, is this

25 --

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1 BRUCE WATSON: Unit 2.

2 KATHY BROCK: All right. So for the one  
3 that was just Unit 2, okay?

4 ELLEN ANDERSON: Okay.

5 KATHY BROCK: You with me?

6 ELLEN ANDERSON: Yes.

7 KATHY BROCK: So we assumed the 550  
8 assemblies in the core. We assumed, so what is this?

9 BRUCE WATSON: Core uncover date. The  
10 shutdown date and the core uncover date.

11 KATHY BROCK: Okay. The shutdown date was

12 --

13 BRUCE WATSON: 3/11.

14 KATHY BROCK: -- 3/11/2011 at 1446.

15 ELLEN ANDERSON: Okay.

16 KATHY BROCK: And the core uncovered  
17 3/15/2011 at midnight.

18 ELLEN ANDERSON: Okay.

19 KATHY BROCK: And the core was not recovered.

20 ELLEN ANDERSON: All right.

21 KATHY BROCK: Let's see, we don't need that.

22 Sprays off, release the vent, sprays off and total failure  
23 of the core.

24 BRUCE WATSON: And containment.

25 KATHY BROCK: And containment. Okay, let's

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1 see. So the calculations started releasing in the  
2 atmosphere plus 16 hours. Yes, and then we did up to  
3 50 miles. And you know RASCAL can only do to 50 miles,  
4 right?

5 ELLEN ANDERSON: I know that.

6 KATHY BROCK: Okay. All right, that's the  
7 second one. So that's what I have highlighted to share.  
8 I'd be happy to do some questions.

9 ELLEN ANDERSON: All right. Identify  
10 yourself to them, okay?

11 JAMIE MALLON (phonetic): Yes. This is  
12 Jamie Mallon.

13 KATHY BROCK: Hi.

14 JAMIE MALLON: My question in that first  
15 scenario is how long did you have the release in progress?

16 KATHY BROCK: It looks like 16 hours.

17 JAMIE MALLON: Okay. Again, Jamie Mallon.  
18 Did you have any, the time between the core uncovered  
19 and containment failure, did you have any time step in  
20 that?

21 BRUCE WATSON: No.

22 KATHY BROCK: No.

23 ELLEN ANDERSON: Okay.

24 JAMIE MALLON: And as a result, again Jamie  
25 Mallon, no alternate source term removal mechanisms were

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1 available for halogen played out?

2 BRUCE WATSON: None.

3 JAMIE MALLON: And no scrubbing of halogens  
4 or particulates through (indiscernible, possibly  
5 "these")?

6 KATHY BROCK: Nothing.

7 ELLEN ANDERSON: Okay.

8 JOHN LUBINSKI: And again the assumptions  
9 were based on many unknowns of the condition of the reactor  
10 leading up to that date.

11 JAMIE MALLON: Yes. That's Bruce.

12 KATHY BROCK: No, that was --

13 JOHN LUBINSKI: John Lubinski.

14 KATHY BROCK: Yes.

15 JAMIE MALLON: John, yes. I fully  
16 appreciate where you were at. I was watching TV trying  
17 to figure out what the heck was going on as well.

18 JOHN LUBINSKI: Right. Okay.

19 ELLEN ANDERSON: Any other questions?

20 GRAHAM JOHNSON: What about, this is Graham  
21 Johnson, the meteorological conditions, the wind speed,  
22 and stability class?

23 BRUCE WATSON: They were based on the  
24 observed. And observed meant that we were getting from  
25 NARAC and the forecast from NARAC.

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1 KATHY BROCK: So as far as stability class,  
2 it looks like we started out with a B and most of it  
3 was in an E for the --

4 JOHN LUBINSKI: Yes, overnight.

5 KATHY BROCK: -- overnight. There's some  
6 unknowns, but there's some Bs in here too, towards the  
7 end.

8 JOHN LUBINSKI: It's pretty calm winds and  
9 pretty stable conditions.

10 GRAHAM JOHNSON: You said calm winds?

11 JOHN LUBINSKI: Yes.

12 GRAHAM JOHNSON: What was the wind speed?

13 JOHN LUBINSKI: I would say less than, most  
14 of the time it was --

15 BRUCE WATSON: (Indiscernible, possibly \*)  
16 meters a second. We were looking --

17 KATHY BROCK: Five or less.

18 JOHN LUBINSKI: Yes.

19 KATHY BROCK: I know there was a seven here.  
20 I'd say about five.

21 JOHN LUBINSKI: Yes, but that's meters --

22 BRUCE WATSON: Meters per second, yes.

23 GRAHAM JOHNSON: Five meters per second,  
24 I understand.

25 JOHN LUBINSKI: Okay.

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1 JAMIE MALLON: What was your 550, this is  
2 Jamie Mallon, your end of life for the core? So you  
3 would assume it had been operating for, you know, full  
4 burn up?

5 JOHN LUBINSKI: We don't get into that. It's  
6 in whatever's modeled in RASCAL. We assume it's end  
7 of core life.

8 JAMIE MALLON: Okay.

9 ELLEN ANDERSON: We ask those kinds of  
10 questions because obviously we don't use RASCAL.

11 JOHN LUBINSKI: Yes, we understand.

12 ELLEN ANDERSON: Okay.

13 MALE PARTICIPANT: I think that's it for  
14 that one..

15 ELLEN ANDERSON: So that was for Unit 2 only,  
16 right? You did a second calculation?

17 BRUCE WATSON: And just to clarify on the  
18 press release, there were two attachments. And what  
19 we just described was the assumptions that went into  
20 the results for that first set of data on the attachment.  
21 Unit 2, only one unit, these conditions.

22 ELLEN ANDERSON: Okay.

23 KATHY BROCK: Okay, the second one. Unit  
24 2, Unit 3, and Unit 4 spent fuel pools. And you can  
25 see in the press release, I forgot now, it was Unit 2

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1 was 100 percent.

2 BRUCE WATSON: The reactor core, right.

3 KATHY BROCK: One hundred percent of the  
4 reactor core, no containment. Unit 3, was that 30 percent?

5 BRUCE WATSON: Fifty percent of the spent  
6 fuel pool.

7 KATHY BROCK: Fifty percent of the spent  
8 fuel pool and what was 4?

9 BRUCE WATSON: No, you're on different  
10 areas.

11 JOHN LUBINSKI: Okay. This is what we did,  
12 oh for the press release.

13 KATHY BROCK: For the press release.

14 MALE PARTICIPANT: The press release. Let  
15 me look at it.

16 KATHY BROCK: All right. Sorry, I'm getting  
17 it together.

18 JOHN LUBINSKI: Sorry, we're just making  
19 sure we have the right set of data here.

20 ELLEN ANDERSON: That's fine.

21 KATHY BROCK: All right, I've got it right  
22 here.

23 BRUCE WATSON: And you can imagine, we had  
24 different runs.

25 KATHY BROCK: The second assessment. Okay,

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1 Unit 2, 30 percent of core damage. Unit 3, spent fuel  
2 pool, 100 percent damaged. Wait a minute, how does this,  
3 forget it, hang on. And see the way it works was we  
4 did a combined source term for all three of those.

5 JOHN LUBINSKI: Right. And what we did was,  
6 what they did on the night shift, we'll take ownership  
7 for this one because it was some kind of innovative thinking  
8 on their own because they combined all of the fresh fuel  
9 which was 100 percent of Unit 2, 100 percent well, oh  
10 they assumed a core of 917 bundles.

11 ELLEN ANDERSON: Unit 2?

12 JOHN LUBINSKI: No, this is combined.

13 KATHY BROCK: Total.

14 JOHN LUBINSKI: Yes. Unfortunately RASCAL  
15 would not allow us to take multiple units and run all  
16 the multiple units together.

17 BRUCE WATSON: And run the spent fuel pool  
18 model with the reactor model.

19 JOHN LUBINSKI: So instead what we had to  
20 do was make some assumptions as a surrogate thing if  
21 we had the condition that included --

22 BRUCE WATSON: Right.

23 JOHN LUBINSKI: -- this from Unit 2, this  
24 from Unit 3, and this from the spent fuel pool.

25 BRUCE WATSON: Yes, we assumed it was all

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1 in one core. All in one core to come up with this release  
2 because the Unit 4 spent fuel pool was fairly newly  
3 discharged fuel bundles.

4 Unit 3, which is about a third of a core  
5 was, I think, within 100 days, around 100 days. And  
6 so they took that to mean that we had basically a core  
7 of 917 fuel bundles.

8 JOHN LUBINSKI: And in assuming that,  
9 different than the first scenario, we assumed what we  
10 believed the inventory was in Units 2 and 3, that is  
11 the number of fuel bundles in each of those units, that  
12 there was 30 percent core damage for Unit 2 and 30 percent  
13 core damage for Unit 3. And we assumed 100 percent fuel  
14 damage for the fuel that was in Unit 4 spent fuel pool.

15 BRUCE WATSON: Right.

16 JOHN LUBINSKI: And then we've combined  
17 those together to come up with the, that's what constitutes  
18 917 --

19 BRUCE WATSON: Fuel bundles.

20 JOHN LUBINSKI: -- fuel bundles.

21 BRUCE WATSON: Assemblies in the core. And  
22 of course, they assume that with, you know, direct release  
23 through the dry well unfiltered to the environment.  
24 You know, no mitigation at all of the source term. And  
25 I guess your next question's going to be duration of

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1 relief?

2 ELLEN ANDERSON: Yes.

3 BRUCE WATSON: Let's see here. The duration  
4 of the release was the start of the release to the  
5 atmosphere plus 15 hours.

6 MALE PARTICIPANT: So the duration was 15  
7 hours?

8 KATHY BROCK: Yes.

9 BRUCE WATSON: Well, yes. Start of the  
10 release plus 15 hours which I guess is 15 or 16 hours  
11 depending on how you look at it. And the meteorology  
12 in this case was based on observed site data.

13 And then starting on March 14th of that  
14 evening going to forecast data. And that forecast data  
15 also included a significant amount of D and E stability  
16 classes, fairly calm winds, and some light rain for a  
17 variety of periods over the next day or two. I think  
18 they had light rain and some light snow around the site.

19 JAMIE MALLON: Does RASCAL, I was going to  
20 ask you a question about halogens. But let me just step  
21 back and repeat what I think I heard you say about your  
22 source term. So you took 917 bundles?

23 BRUCE WATSON: Right.

24 JAMIE MALLON: And what was the time since  
25 shutdown for those bundles?

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1 BRUCE WATSON: Shutdown was on 3/11, 1446,  
2 and the core was uncovered on 3/16 at 1950. Now those  
3 are kind subjective on our part in some cases because  
4 we know they shut down.

5 They did have some cooling to a core, but  
6 then again we're dealing with a made up core. But one  
7 of the key things I think is I think this 3/16 date deals  
8 a lot with Unit 4 losing its water, the spent fuel pool.

9 JAMIE MALLON: Okay. So even though we're  
10 talking about, you know, discharged fuel and a kind of  
11 an accident or a release coming from the spent fuel pool  
12 because of limitations in the code, you modeled it as  
13 a (indiscernible, possibly "LOCA")?

14 BRUCE WATSON: Correct.

15 JAMIE MALLON: Okay. And this containment  
16 failure is how you modeled it unfiltered. So no removal  
17 mechanisms, no AST type removal mechanisms.

18 BRUCE WATSON: Yes. No mitigation  
19 interdiction by the licensee, or in this case TEPCO.

20 JAMIE MALLON: Right.

21 BRUCE WATSON: Basically had all lost off  
22 site power.

23 JAMIE MALLON: Now, I'm not that familiar  
24 with RASCAL so I'm going to ask a question and it's purely  
25 out of my ignorance. When you talk about light rain

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1 in the model, does that in fact then strip halogens or  
2 particulates?

3 BRUCE WATSON: Yes. It's got some factors  
4 that reduces source term.

5 MALE PARTICIPANT: Okay.

6 BRUCE WATSON: I don't know exactly what  
7 they are, but it does take that into account. I know  
8 we just did some comparisons overnight with a field data  
9 measurement and with rain and without rain, and there's  
10 a significant difference in the washout.

11 JAMIE MALLON: Okay.

12 BRUCE WATSON: So it definitely does that.

13 PAUL MAFAYNA (phonetic): This is Paul  
14 Mafayna. You said calm winds, is that the same 5 meters  
15 per second?

16 BRUCE WATSON: Yes. In this case they were  
17 very calm. We're talking for the majority of it probably  
18 2-1/2 meters per second. And then into the forecast,  
19 it was more like around 5.

20 And on the 16th we did have some higher winds  
21 that went up to about 10 to 12 meters per second, and  
22 then it slowly crept back down to the 9s and 7s I guess  
23 through the night.

24 And then the next day it was back to fairly  
25 calm. And then we had some bigger ones in the afternoon,

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1 which then the release started on the sixteenth, at the  
2 end.

3 So during that time period I just spoke about,  
4 in the beginning of that release was probably very calm,  
5 and then through the night or the day, actually it was  
6 pretty calm.

7 Most of it Bs and Cs and Ds, actually mostly  
8 Cs and Ds. And then it looks like through the night,  
9 it was fairly calm and even stability class, no, stick  
10 with the D and C.

11 ELLEN ANDERSON: Okay. Delta and Charlie?

12 BRUCE WATSON: Yes.

13 JOHN LUBINSKI: And on average, I would  
14 probably say it was 5 meters per second, just highballing  
15 it.

16 ELLEN ANDERSON: Okay.

17 PAUL MAFAYNA: Okay. Just for a listening  
18 check here, earlier you said Delta and Echo. So it's  
19 more like Charlie and Delta?

20 JOHN LUBINSKI: Yes. I was looking through  
21 the whole previous day's data and stuff and really the  
22 time of release here on the 16th would have been more  
23 Deltas, actually almost all Deltas.

24 PAUL MAFAYNA: Okay.

25 ELLEN ANDERSON: Did you do multiple runs

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1 at different times for this particular scenario?

2 JOHN LUBINSKI: No.

3 KATHY BROCK: No.

4 ELLEN ANDERSON: Okay. So it's just one  
5 run, okay.

6 GRAHAM JOHNSON: So this is Graham Johnson.  
7 Once again, I'm not familiar with RASCAL as much as  
8 (indiscernible, possibly "RADOS") which we use. Does  
9 the forecast just use the current conditions, or does  
10 the forecast itself use varying meteorology?

11 JOHN LUBINSKI: It will use the forecast  
12 data for projections.

13 ELLEN ANDERSON: Okay.

14 GRAHAM JOHNSON: So your match data file  
15 has hourly or some time?

16 JOHN LUBINSKI: Yes, it does. They're  
17 observed or forecast data pretty much on an hourly basis,  
18 and it uses that with the wind direction so we can predict  
19 where a plume may be going.

20 MALE PARTICIPANT: And one more question.  
21 I did see the table that was put out. The one piece  
22 of information that wasn't on there, does RASCAL calculate  
23 EDE rather than just (indiscernible, possibly "teddy")  
24 and CDE?

25 BRUCE WATSON: That's (indiscernible,

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1 possibly "teddy").

2 MALE PARTICIPANT: Okay. Thank you.

3 MALE PARTICIPANT: Do you have a prevailing  
4 wind direction that you were using? I know they're buried  
5 a good bit, but was there a --

6 JOHN LUBINSKI: Yes. On the 16th, it looks  
7 like it was a little bit out of, I'll say mostly out  
8 of the north, out of the northwest. And let's see, I'll  
9 just throw out some numbers to you here.

10 Looks like the majority of them in the early  
11 hours of the morning were from about 350 and then it  
12 dipped all the way around to 298 and pretty much settled  
13 in around 315, 330. So it was pretty much blowing from  
14 the West to the East for most of it, a little bit from  
15 the North in the beginning.

16 BRUCE WATSON: So this gave us a good  
17 representative sample of a plume that would come from  
18 this type of source term and could use that as a model  
19 if the wind were to shift in another direction, we could  
20 use the same type of information for the plume just changing  
21 the direction of the plume.

22 MALE PARTICIPANT: Okay.

23 ELLEN ANDERSON: All right. Do we have any  
24 other questions in this room?

25 GRAHAM JOHNSON: This is Graham Johnson

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1 again. Have you all done subsequent calculations that  
2 you could share with us?

3 JOHN LUBINSKI: We have not done subsequent  
4 calculations that were done to support these kind of  
5 conditions or these kind of, when I say conditions meaning  
6 that the plant, whether it's not as one unit, or three  
7 units, or spent fuel pools.

8 What we have done is what I'd say is less  
9 extreme conditions that based on the condition of the  
10 plant, instead of assuming 100 percent fuel damage at  
11 the spent fuel pool, assuming something that based on  
12 current plant conditions say that it's probably less  
13 than that and looking at, you know, smaller numbers,  
14 5 percent, 10 percent fuel damage.

15 And again just confirming that they would  
16 not be beyond what we've already put out in this  
17 recommendation. So nothing that would be close to or  
18 beyond this recommendation for making a (indiscernible,  
19 possibly "PAG") in Japan.

20 GRAHAM JOHNSON: Okay.

21 ELLEN ANDERSON: Would you be willing to  
22 share that data with us?

23 JOHN LUBINSKI: From the standpoint of the  
24 data, I'd have to look at what we have and have to get  
25 back to you on that.

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1 ELLEN ANDERSON: Okay. That's's fine,  
2 that's fine.

3 MALE PARTICIPANT: Yes, we were trying to  
4 work with NARAC on some of those trans Pacific stuff.

5 ELLEN ANDERSON: Okay. We have a hard end  
6 at 10:00.

7 MALE PARTICIPANT: I have one more question.

8 ELLEN ANDERSON: Okay. Go ahead, Jamie.

9 JAMIE MALLON: Ground level release?

10 JOHN LUBINSKI: All ground level releases,  
11 yes. No power to push stuff up the stack.

12 JAMIE MALLON: Yes, I figured that. But  
13 I just wanted to be --

14 JOHN LUBINSKI: Okay.

15 ELLEN ANDERSON: Good question, Jamie.  
16 Thank you. So one of the things we would like to do  
17 is to continue having dialogue and exchange of information.  
18 Obviously, we'd be willing to share with you what we  
19 have once we talk to our folks at INPO and have something  
20 to share with you, if you're interested.

21 JOHN LUBINSKI: I guess let me ask what the  
22 purpose would be in these continued calls and exchanges.  
23 And let me tell you where I'm coming from on that.

24 Right now we're still in the, as a Protective  
25 Measures Team, continuing to monitor the conditions at

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1 the site and determine whether or not the Protective  
2 Action Guidelines continue to be adequate, you know,  
3 where we are.

4 So our focus is continuing to look at plant  
5 conditions and whether we would do additional runs.  
6 This was where we were at that point in time. So as  
7 far as going back and re-looking at this data, we're  
8 not looking at moving forward and doing that right now.

9 Maybe that's a longer term after the event  
10 and when we're looking back at lessons learned. That  
11 may be a time we want to look at this. So my question  
12 would be what would be your purpose in those exchanges?

13 ELLEN ANDERSON: Obviously just to share  
14 a collegial exchange of information if you are so, if  
15 you care to do so.

16 JOHN LUBINSKI: Well, I think it's a matter  
17 of resources at this point and we're really trying to  
18 focus on what's going on now and the immediate future.

19 BRUCE WATSON: We'd like to share that  
20 information, but the timing of it to do that now I don't  
21 think would be appropriate from our standpoint and our  
22 resources.

23 ELLEN ANDERSON: Okay. All right.

24 BRUCE WATSON: But after the fact, yes after  
25 the event's over and once we get into a condition here

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1 of standing down the Operation Center, that would be  
2 something we would want to exchange on.

3 ELLEN ANDERSON: Okay. We're willing to  
4 do that.

5 BRUCE WATSON: Thank you.

6 ELLEN ANDERSON: We'll be in contact, I  
7 assume. I don't know how Ralph started this conversation.  
8 But whatever that methodology was, we'll do that again  
9 and we'll decide at that point what we do going forward.  
10 How's that?

11 BRUCE WATSON: Great. And can I ask one  
12 other, you know, on the call you've heard who we have  
13 here. There's, you know, three of us on this call. You  
14 said you have a whole room full of people or people on  
15 the line. Can you send an email to us just documenting  
16 who we were talking with this morning?

17 ELLEN ANDERSON: Oh, most definitely. Who  
18 do you want me to send it to?

19 KATHY BROCK: PMT --

20 ELLEN ANDERSON: PMT.

21 KATHY BROCK: -- .hoc --

22 ELLEN ANDERSON: -- hoc --

23 KATHY BROCK: Oh crap.

24 MALE PARTICIPANT: Go back to the beginning,  
25 yes.

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1 KATHY BROCK: Okay, let's do it again.  
2 ELLEN ANDERSON: Okay.  
3 JOHN LUBINSKI: P as in Paul --  
4 ELLEN ANDERSON: P as in Paul.  
5 JOHN LUBINSKI: M as in Mary.  
6 ELLEN ANDERSON: MT as in, okay.  
7 JOHN LUBINSKI: Yes, PMT.  
8 ELLEN ANDERSON: Yes.  
9 JOHN LUBINSKI: 12 --  
10 ELLEN ANDERSON: 12.  
11 JOHN LUBINSKI: Yes, the numbers 12.  
12 ELLEN ANDERSON: Got it.  
13 JOHN LUBINSKI: -- dot.  
14 ELLEN ANDERSON: Dot.  
15 JOHN LUBINSKI: -- hoc --  
16 ELLEN ANDERSON: HOC.  
17 JOHN LUBINSKI: @ --  
18 ELLEN ANDERSON: @.  
19 JOHN LUBINSKI: NRC.gov.  
20 ELLEN ANDERSON: NRC.gov.  
21 JOHN LUBINSKI: Yes.  
22 ELLEN ANDERSON: All right. I will send that  
23 to you some time this afternoon. Unfortunately, it won't  
24 be until afternoon.  
25 JOHN LUBINSKI: That's great.

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1 ELLEN ANDERSON: I will send you the names  
2 of the folks that were in the room and the companies  
3 that they work for.

4 JOHN LUBINSKI: Thank you.

5 ELLEN ANDERSON: All right. And if you need  
6 anything else, this is Ellen Anderson, NEI. My email  
7 address if you need anything is exa@nei.org.

8 JOHN LUBINSKI: Thanks, Ellen.

9 ELLEN ANDERSON: All right. Thank you so  
10 much.

11 JOHN LUBINSKI: Thank you.

12 ELLEN ANDERSON: All right. Take care.

13 JOHN LUBINSKI: Bye.

14  
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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: PMT, Harris.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Hans LaVey (phonetic) from Sandia on the line for you.

6 TIM HARRIS: Hold one second. Were you  
7 expecting a call from Hans LaVey from Sandia?

8 STEVE LAVIE: Yes.

9 TIM HARRIS: Hey, Hans?

10 STEVE LAVIE: I was going to call him.

11 TIM HARRIS: Hans?

12 HANS LAVEY: Yes.

13 TIM HARRIS: Hey, this is Tim Harris with  
14 the PMT. I've think I've got Steve Lavie sitting here  
15 who's actually who you want to talk to so I'm going to  
16 transfer you over.

17 HANS LAVEY: Okay. All right.

18 STEVE LAVIE: Yes, Hans?

19 HANS LAVEY: Yes. Sorrywemissedyourcall.  
20 We just had another call come in on that line.

21 STEVE LAVIE: Oh, okay. Yes, I just tried  
22 calling you. Let me get my papers. I called you from  
23 a different phone. Hold on just a moment.

24 HANS LAVEY: Okay.

25 STEVE LAVIE: Okay. I received all the

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1 papers. I'm just trying to go through them and I think  
2 my big question coming up is how is this factoring into  
3 the Melchore Trans-Pacific run?

4 HANS LAVEY: Okay. So what we did is, and  
5 the memo we just got, we filled out the memo with the  
6 description of the runs and the consequences, filled  
7 out our portion and sent it back to NARAC earlier. And  
8 actually the other call that's going on right now is  
9 a discussion of that now.

10 STEVE LAVIE: Okay.

11 HANS LAVEY: So what we did is we for the  
12 iodine ingestion pathway, which is the only ingestion  
13 pathway addressed in that memo --

14 STEVE LAVIE: Right.

15 HANS LAVEY: -- we NA'ed thyroid dose in  
16 Alaska to a child and we NA'ed Midway and Wake. And  
17 the justification for that was the FDA, the answers to  
18 the questions that the FDA provided. That's one of the  
19 things in that email --

20 STEVE LAVIE: Right.

21 HANS LAVEY: -- regarding the five herds  
22 and the stored feed in Alaska.

23 STEVE LAVIE: Yes.

24 HANS LAVEY: And in the, no production of  
25 any kind of any food stuff basically in Midway.

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1 STEVE LAVIE: Okay. Sounds good.

2 HANS LAVEY: So I know nothing about Wake  
3 Island except what I learned on Wikipedia after talking  
4 to Bruce this morning. And it looks to me, so what we  
5 put on there for the Wake explanation was that we assume  
6 it to also have no milk production. You know, we don't  
7 have the FDA's answer on that, but it's a bunch of air  
8 strips and some --

9 STEVE LAVIE: Exactly, plane refueling.

10 HANS LAVEY: -- bunker dormitories or  
11 something. So I mean there's not, it seems like a  
12 reasonable assumption that they're not producing food  
13 or milk.

14 STEVE LAVIE: Okay.

15 HANS LAVEY: So we NA'ed it for those three  
16 and we have not looked at some other ingestion pathway  
17 yet. So the current status of the Melchore runs will  
18 just be that, the NA for those three locations for milk.

19 STEVE LAVIE: Okay. And you're using the  
20 DLLs from the FDA to convert the Melchore outputs? Is  
21 that what I'm hearing or --

22 HANS LAVEY: Yes, we're using the, there's  
23 a derived, okay, so yes. It's based on the FDA dill  
24 (phonetic) which is based on the 500 millirem per year.

25 STEVE LAVIE: Okay.

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1 HANS LAVEY: Since everything in that model  
2 is done in terms of ground deposition --

3 STEVE LAVIE: Correct.

4 HANS LAVEY: -- we converted that to a derived  
5 response level for that dill. And that's, the one sheet  
6 that describes the various, you know, ingestion  
7 information about the forage and the forage per square  
8 meter --

9 STEVE LAVIE: Yes.

10 HANS LAVEY: -- and all of that junk is what  
11 you gets from a ground contamination level to a milk,  
12 you know, activity per unit mass of milk.

13 STEVE LAVIE: Okay.

14 HANS LAVEY: So let's see. Yes that's all  
15 standard, sorry.

16 STEVE LAVIE: Standard calculations.

17 HANS LAVEY: Standard default parameters  
18 for those things. So it's not fine tuned to Hawaii or  
19 the West Coast.

20 STEVE LAVIE: Yes.

21 HANS LAVEY: It's just a standard default  
22 parameter.

23 STEVE LAVIE: Kind of like standard man  
24 (phonetic) for doses.

25 HANS LAVEY: Yes.

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1 STEVE LAVIE: Okay.

2 HANS LAVEY: And, you know, we don't really  
3 have a full-time advisory team to --

4 STEVE LAVIE: Refine it.

5 HANS LAVEY: -- to consult with to refine  
6 it. I'm sure we could if it was critical. But anyway,  
7 at this time we have not done that.

8 STEVE LAVIE: Okay. And okay. You zeroed  
9 out the Alaska, Midway, Wake. California stayed in,  
10 I would suspect?

11 HANS LAVEY: Yes Oregon, California, both  
12 of those, okay I guess there's Oregon, California,  
13 Washington is lumped together as the West Coast.

14 STEVE LAVIE: Okay.

15 HANS LAVEY: Per the FDA document, it looks  
16 like Oregon and California are pretty certainly valid,  
17 and I think their answer was that there's quite a bit  
18 of stored feed use still this time of year in Washington.  
19 But, you know, as a group it didn't seem valid to --

20 STEVE LAVIE: Separate them.

21 HANS LAVEY: -- to separate it or to, you  
22 know --

23 STEVE LAVIE: Since they're based on the  
24 same forage data and everything else (indiscernible,  
25 possibly \*).

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1 HANS LAVEY: Yes.

2 STEVE LAVIE: Okay. That makes sense to  
3 me. I hope I can explain it to our Chairman. And make  
4 sure I understood what you said. The NARAC folks are  
5 going to multiply the constants or the values you came  
6 up with against what their runs are showing to estimate  
7 what the ingestion dose is, is that what's happening?

8 HANS LAVEY: Yes. And we actually did that.

9 STEVE LAVIE: Oh.

10 HANS LAVEY: We did the dose conversion  
11 factors. So they provide the ground deposition, we  
12 provide the dose conversion factors and multiply it out  
13 to come up with the 96 hour ground shine dose and the  
14 ingestion pathway dose.

15 STEVE LAVIE: Okay. The Melchore memo, what  
16 type of distributions on that?

17 HANS LAVEY: Let's see here.

18 STEVE LAVIE: Once it gets approved  
19 obviously.

20 HANS LAVEY: Okay. I'm looking over my  
21 partner's shoulder here. Let's see. Let me make sure.

22 Okay. So we got 100 percent meltdown, no containment  
23 --

24 STEVE LAVIE: Right.

25 HANS LAVEY: -- from the Unit 1, 2, 3 reactors.

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1 STEVE LAVIE: Okay.

2 HANS LAVEY: One hundred percent spent fuel  
3 pool (indiscernible, possibly \*).

4 STEVE LAVIE: Okay. Let me --

5 HANS LAVEY: And then we had 1 through 4  
6 spent fuel.

7 STEVE LAVIE: We provided that data so we're  
8 comfortable with that.

9 HANS LAVEY: Okay.

10 STEVE LAVIE: What else is in the memo besides  
11 that data? Does NARAC actually put numeric results in  
12 there?

13 HANS LAVEY: They put numeric results in  
14 terms of picocuries per square meter of Cesium  
15 disposition.

16 STEVE LAVIE: Okay.

17 HANS LAVEY: Picocuries per square meter  
18 of iodine 131 deposition and they're now adding picocuries  
19 per square meter of Strontium-90 deposition I think  
20 in anticipation of possibly some other ingestion pathway  
21 becoming a --

22 STEVE LAVIE: Right.

23 HANS LAVEY: -- question mark later. But  
24 those are the three pieces of data. They also provide  
25 what they actually transported from each source and it's

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1 Cesium 137 and iodine 131. And they provide the curies  
2 from each, you know, the curies from each source.

3 STEVE LAVIE: Okay.

4 HANS LAVEY: But those are the two they  
5 transported.

6 STEVE LAVIE: Okay. I think you've given  
7 me enough to transfer to the Chairman and explain what  
8 they're going on. I think the reason the questions are  
9 being raised is that there was some concern about, like  
10 Alaska for instance.

11 And we're happy to hear you said that you  
12 NA'ed them out because everybody was wondering hey where  
13 are these cows grazing in the snow.

14 HANS LAVEY: Right.

15 STEVE LAVIE: So I think that's going to  
16 go a long way to resolving their concerns.

17 HANS LAVEY: Well, we understand the issue.  
18 We also, you know, in the big scheme of things when  
19 every other part of the approach or the scenario is worst  
20 case in terms of, you know, the quantities released and  
21 the meteorological patterns and all of that kind of stuff.

22 It almost seems like kind of a (indiscernible, possible  
23 \*).

24 STEVE LAVIE: Refining (indiscernible,  
25 possibly \*) keep trying to turn us out of there in a

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1 gilded berth.

2 HANS LAVEY: That's right.

3 STEVE LAVIE: I totally understand.

4 HANS LAVEY: Why are we focusing on that  
5 one ultra conservatism when we're ignoring all the others.

6 STEVE LAVIE: When you have an uncertainty  
7 of a factor of 20 in one parameter, why are you worrying  
8 about six significant digits on another one.

9 HANS LAVEY: Right. So that's kind of our  
10 resistance, I guess. I don't know if we've resisted  
11 change, we just didn't necessarily see the point in it  
12 with everything else.

13 STEVE LAVIE: Well, I think, and unless this  
14 wasn't passed to you is I think the concern arised (phonetic)  
15 is the folks at NARAC printed out a run a couple of days  
16 ago now that indicated 4.9 REM due to milk (indiscernible,  
17 possibly \*) ingestion in California. That caught an  
18 awful lot of people's attention.

19 HANS LAVEY: Yes, well it would. And yes,  
20 I understand that and it's still over a REM --

21 STEVE LAVIE: Right.

22 HANS LAVEY: -- even now. That was probably  
23 super core source term that did that.

24 STEVE LAVIE: Yes.

25 HANS LAVEY: (Indiscerible, possibly \*) was

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1 that Melchore.

2 STEVE LAVIE: One other question I hope and  
3 I can let you go. I appreciate the input you're giving  
4 me.

5 HANS LAVEY: No problem.

6 STEVE LAVIE: I can't remember what it was  
7 now. Oh yes, the calculations as you know them are being  
8 done with no introduction, correct?

9 HANS LAVEY: I'm not sure what that means.

10 STEVE LAVIE: Oh, okay. It's typically when  
11 it becomes aware that milk is going to be contaminated,  
12 it'll be intadicted (phonetic) and kept out of transport  
13 and commerce.

14 HANS LAVEY: That's correct (indiscernible,  
15 possibly \*).

16 STEVE LAVIE: And ends the possibility of  
17 an exposure.

18 HANS LAVEY: Yes that at this point, that's  
19 not being considered.

20 STEVE LAVIE: Not being considered.

21 HANS LAVEY: You know, the standard approach  
22 on that we're seeing is, you know, if you have a derived  
23 response level calculation that shows that you might  
24 exceed a derived intervention level, but you don't have  
25 data to support that --

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1 STEVE LAVIE: Yes.

2 HANS LAVEY: -- so you just got calculations,  
3 they will sometimes, I guess this is a higher level decision  
4 than you or me --

5 STEVE LAVIE: You or me, undoubtedly.

6 HANS LAVEY: -- they may do a temporary  
7 embargo on that until there's data available to either  
8 officially quarantine it or whatever they do, throw it  
9 in the trash --

10 STEVE LAVIE: Right.

11 HANS LAVEY: -- pull it off the market.  
12 But generally speaking, the derived intervention levels  
13 are not claimed to be exceeded until there's data  
14 supporting that fact. So I mean, they can do temporary  
15 things or, you know, but there's a lot of danger in doing  
16 that.

17 I mean if you temporarily embargo milk, let's  
18 say in California for this reason, you know, this is  
19 a big political decision. You may impact, you know,  
20 that economy or that market long after this is over and  
21 possibly for no good reason. You know what I mean?

22 STEVE LAVIE: Right.

23 HANS LAVEY: So I think there's, you know,  
24 there's hesitancy to just say well let's quarantine it  
25 because maybe it'll blow. If it goes, if, you know,

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1 you have the major accident that these things are  
2 predicting --

3 STEVE LAVIE: Predicting to happen.

4 HANS LAVEY: -- then maybe somebody would  
5 say, you know, we got six days or three days, whatever  
6 it is, let's get this stuff off because of these predictions.  
7 But I don't think it's being done in advance.

8 STEVE LAVIE: I think in talking to you,  
9 what had just occurred to me is what we're discussing  
10 here is we use the same thing when we're doing evacuation  
11 decisions. It's the avoided dose and use it to determine  
12 whether or not to take the action.

13 So these numbers that you guys are generating  
14 and going to tell FDA and whoever else is going to control  
15 this if that ever does happen is that yes, there's a  
16 potential they could exceed these limits if nothing is  
17 done. But don't do anything until it actually happens.

18 HANS LAVEY: Right. In this case you've  
19 got time because it's not the --

20 STEVE LAVIE: Exactly.

21 HANS LAVEY: -- resistor is in your own back  
22 yard.

23 STEVE LAVIE: Right. It's not an immediate  
24 exposure situation --

25 HANS LAVEY: Right.

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1                   STEVE LAVIE: -- that's time (indiscernible,  
2 possibly "intadicted"). Okay. Well Hans, I want to thank  
3 you a lot for your help. Very, very helpful and have  
4 a good evening.

5                   HANS LAVEY: All right. Thank you very much.

6                   STEVE LAVIE: Thank you.

7                   HANS LAVEY: Good talking to you.

8                   STEVE LAVIE: Bye now.

9                   HANS LAVEY: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: This is the NIT.

4 TIM HARRIS: This is Tim Harris at NRC  
5 Operation Center. This is a recorded line. I was trying  
6 to get a hold of somebody that deals with the AMS, the  
7 DOE flyovers to ask if we can share some of their information  
8 with some international counterparts.

9 MALE PARTICIPANT: I don't believe so. Wait  
10 just a second. Yes, one we're not sharing raw data,  
11 but we're sharing stuff with the Japanese.

12 TIM HARRIS: Well, this is Canada, the UK,  
13 and France.

14 MALE PARTICIPANT:

15 (b)(5)

16  
17 TIM HARRIS: Okay.

18 MALE PARTICIPANT:

19 (b)(5)

20  
21  
22 TIM HARRIS: Okay. That answers the mail.

23 All right. Thanks, sir.

24 MALE PARTICIPANT: Thank you.

25 TIM HARRIS: Bye.

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MALE PARTICIPANT: All right. Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: Yes, I  
5 have Smith on for Michelle Hart.

6 TIM HARRIS: Okay. Tim Harris of the PMT.  
7 How can I help you?

8 LEE SMITH: Hi, Tim. My name is Lee Smith  
9 from Naval Reactors. I spoke with Michelle Hart yesterday.  
10 And I discussed with her our desire to send over some  
11 of our dose projections to have you guys take a look  
12 at and get some feedback on and see if it corroborated  
13 to your guys level of understanding of what's going on.

14 TIM HARRIS: I think that was on my to-do  
15 list today.

16 LEE SMITH: Excellent, excellent.

17 TIM HARRIS: That's awesome, Lee.

18 LEE SMITH: So I can help you get that done.

19 TIM HARRIS: Yes. You Navy guys, I mean  
20 you're just a step ahead, I know. So you're looking  
21 for, like, an email address to send it to?

22 LEE SMITH: That would be great.

23 TIM HARRIS: It's PMT12.hoc@NRC.gov.

24 LEE SMITH: Hold on, .h --

25 TIM HARRIS: OC --

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LEE SMITH: -- OC --

TIM HARRIS: -- @NRC.gov.

LEE SMITH: Okay, PMT12.hoc@NRC.gov?

TIM HARRIS: Yes.

LEE SMITH: Okay.

TIM HARRIS: Do you have a callback number

in case?

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 Mr. Smith again from Naval Reactors.

6 TIM HARRIS: Okay. Hey, Lee.

7 LEE SMITH: Hey. Sorry about that, I got,  
8 you know, the multiple lines kick our rear end sometimes.

9 TIM HARRIS: I understand.

10 LEE SMITH: And I'm sorry, your name again  
11 was?

12 TIM HARRIS: Tim Harris.

13 LEE SMITH: Tim Harris, okay. All right,  
14 great. I'm not sure where I was, but --

15 TIM HARRIS: Well, I was trying to get a  
16 callback number when you kind of disappeared.

17 LEE SMITH: Okay. My callback number is  
18 202-781 --

19 TIM HARRIS: Okay.

20 LEE SMITH: -- 5993.

21 TIM HARRIS: Okay. And what kind of shift  
22 are you working?

23 LEE SMITH: I'm actually getting ready to  
24 get relieved, which is one reason why I'm calling --

25 TIM HARRIS: Okay.

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1           LEE SMITH:  -- and I was trying to touch  
2 base with you guys for two reasons.  One, to let you  
3 know we're getting really close to having something to  
4 send over to you.

5           And two, to let you know that two gentlemen,  
6 John Roros, R-O-R-O-S, and John Hallworth, will be the  
7 ones that will actually be discussing the results of  
8 our calculations with you.

9           TIM HARRIS:  Okay.  Is that possible to  
10 contact them at this number also?

11          LEE SMITH:  Yes.

12          TIM HARRIS:  Okay.

13          LEE SMITH:  Yes, so they'll be at this number.  
14 Let me give you another line if you can't reach on that  
15 one.

16          TIM HARRIS:  Sure.

17          LEE SMITH:  5601.

18          TIM HARRIS:  Okay.

19          LEE SMITH:  So 202-781 --

20          TIM HARRIS:  Yes.

21          LEE SMITH:  -- 5601.

22          TIM HARRIS:  So 202-781, right?

23          LEE SMITH:  Right, 202-781 --

24          TIM HARRIS:  Got you.

25          LEE SMITH:  -- 5601.

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1 TIM HARRIS: 5601.

2 LEE SMITH: And just Nirvana Ferauch  
3 (phonetic) is the gentleman that we have over in Japan  
4 right now that's trying to do his part of advising senior  
5 folks in Japan --

6 TIM HARRIS: Sure.

7 LEE SMITH: -- both military and Embassy  
8 folks has a meeting with the Ambassador at 9:00 this  
9 morning their time. So in about three and a half hours.

10 TIM HARRIS: Yes, I don't have my clock up  
11 anymore. Okay.

12 LEE SMITH: So, you know, I mean I hate to  
13 ask, but you know how things in these times. If we  
14 could get you guys to take a look at this and give us  
15 some initial, if you can't give us a final answer, I  
16 understand.

17 But at least if you give us some additional  
18 feedback on some confidence of what you think about it.  
19 You know, something's better than nothing.

20 TIM HARRIS: Yes. I mean, I've got an HP  
21 that can do a look at it and then whether I can get time  
22 with the policy person, you know, that's always a  
23 struggle.

24 LEE SMITH: I understand. I mean, the word  
25 today for us here is harmonize and we're trying to share

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1 information and push data around so everybody has the  
2 same info to draw conclusions from, and we want to share  
3 conclusions and to hopefully generate a combined  
4 perspective of what's going on over there --

5 TIM HARRIS: Okay.

6 LEE SMITH: -- so that the proper advice  
7 can be given. And I know everybody supports that.

8 TIM HARRIS: Yes, exactly. Okay, Lee. I  
9 guess enjoy your evening. You're probably going to go  
10 home and go to bed.

11 LEE SMITH: Yes, I am.

12 TIM HARRIS: Yes, as soon as you get it to  
13 us, we'll jump right in and we'll touch base with the  
14 two individuals you talked about.

15 LEE SMITH: Okay.

16 TIM HARRIS: All right?

17 LEE SMITH: Sounds very good.

18 TIM HARRIS: All right.

19 LEE SMITH: Thanks, Tim.

20 TIM HARRIS: Bye.

21 LEE SMITH: Bye.  
22  
23  
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1  
2 (CONFERENCE CALL INITIATED)

3 SARAH DEKAMP (phonetic): Hello, this is  
4 Sarah Dekamp. Please leave me a message and I'll get  
5 back to you as soon as I can. Thank you.

6 AUTOMATED MESSAGE: At the tone, please  
7 record your message. When you are finished recording,  
8 hang up or press # for more options.

9 TIM HARRIS: Hey Sarah, this is Tim Harris  
10 at the Nuclear Regulatory Commission, the Headquarters  
11 Operation Center on the Protective Measures Team.

12 I sent you an email trying to get some  
13 additional background on the EPA's decision to stand  
14 up their Advisory Team. You can either respond by email  
15 and let me know when it would be convenient to call you,  
16 or if it's late or maybe tomorrow somebody else will  
17 be at the phone. You can reach us at 301-816-5100 and  
18 I'm at extension 5415. Thanks.

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1  
2 (CONFERENCE CALL INITIATED)

3 ELLEN ANDERSON: Hello, this is Ellen  
4 Anderson of the Nuclear Energy Institute. I'm sorry  
5 that I can't take your call at this time. However, if  
6 you leave your name, your number, and a message I'll  
7 return your call just as soon as I can. Thanks for calling.

8 DONALD COOL: Hi Ellen, this is Donald Cool.  
9 I'm calling you from the NRC Operation Center. I'm  
10 currently the Protective Measures Team Director.

11 You and some other NEI folks were on a call  
12 with our folks earlier today related to some of the source  
13 term activities, and I understand that you committed  
14 to getting us the complete list of the folks from your  
15 side that were on that call.

16 We're trying to complete our meeting summary  
17 and get it in our record here. If you could email that  
18 to the email address PMT12.hoc@NRC.gov, we'd appreciate  
19 it. Thank you. Bye bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 PAM HENDERSON: You have reached Pam  
4 Henderson, Chief of Plant Support Branch II in the Division  
5 of Reactor Safety in Region I of the Nuclear Regulatory  
6 Commission.

7 I am in the office today, but unavailable  
8 at the moment. Please leave your name, number, and a  
9 message and I will get back to you.

10 AUTOMATED MESSAGE: Your call is being  
11 transferred. Please wait on the line.

12 FEMALE PARTICIPANT: Reactor Safety.

13 TIM HARRIS: Hey, this is Tim Harris in  
14 Headquarters in the Operation Center.

15 FEMALE PARTICIPANT: Hi, Tim.

16 TIM HARRIS: Pam called me and I don't have  
17 a, I think she said she was at home.

18 FEMALE PARTICIPANT: Pam who?

19 TIM HARRIS: Sorry, Pam Henderson.

20 FEMALE PARTICIPANT: Okay.

21 TIM HARRIS: And so I called her office phone  
22 and she's not there.

23 FEMALE PARTICIPANT: Right, she's out for  
24 the afternoon.

25 TIM HARRIS: Yes. Do you have a contact

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1 number I can get in touch with her?

2 FEMALE PARTICIPANT: 484 --

3 TIM HARRIS: 484, go ahead.

4 FEMALE PARTICIPANT: -- 467 --

5 TIM HARRIS: Okay.

6 FEMALE PARTICIPANT: -- 9146.

7 TIM HARRIS: Perfect. Okay. Thank you

8 much.

9 FEMALE PARTICIPANT: You're welcome.

10 TIM HARRIS: Bye.

11 FEMALE PARTICIPANT: Bye.

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(CONFERENCE CALL INITIATED)

TIM HARRIS: PMT, Harris.

HEADQUARTERS OPERATIONS OFFICER: Mr.  
Harris, I have Mr. Roros for you.

TIM HARRIS: Okay.

HEADQUARTERS OPERATIONS OFFICER: Please  
Hold, sir.

TIM HARRIS: Tim Harris with the PMT. How  
can I help you.

JOHN ROROS: Hey Tim, this is John Roros  
with Naval Reactors. How are you, sir?

TIM HARRIS: Oh, hey. I was just getting  
ready to call Troy.

JOHN ROROS: Troy Hiten (phonetic)?

TIM HARRIS: Yes.

JOHN ROROS: Okay.

TIM HARRIS: Or send Troy an email.

JOHN ROROS: Okay.

TIM HARRIS: But I can dispense with that.  
You were calling for?

JOHN ROROS: Well, I just wanted to make  
sure you got the data that was sent over.

TIM HARRIS: Yes, we did. We're having our

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1 health physicist look at it. Just to give me some  
2 background, it looks like these were doses that actually  
3 happened.

4 JOHN ROROS: Well, what I would tell you  
5 is --

6 TIM HARRIS: Tim Harris.

7 JOHN ROROS: No, no. Hold on.

8 (Pause)

9 JOHN ROROS: Hold on, let me get him on the  
10 line for you.

11 TIM HARRIS: Okay.

12 JOHN HALLWORTH (phonetic): This is  
13 Hallworth.

14 TIM HARRIS: Troy? Hello?

15 JOHN HALLWORTH: Hello.

16 TIM HARRIS: Hello. This is Tim Harris at  
17 the NRC.

18 JOHN HALLWORTH: This is John Hallworth at  
19 NRR.

20 TIM HARRIS: Oh, John Hallworth.

21 JOHN HALLWORTH: Right.

22 TIM HARRIS: So I guess my question, we were  
23 looking at the Excel spreadsheet you sent. I just wanted  
24 to get some kind of background.

25 JOHN HALLWORTH: Okay. Go ahead.

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1 TIM HARRIS: Well, I guess I'm asking you.

2 JOHN HALLWORTH: Okay.

3 TIM HARRIS: What did you send us?

4 JOHN HALLWORTH: We took data from an air  
5 sample on a barge that was next to the George Washington  
6 during the first plume, the 27R plume last week, March  
7 15th, 16th.

8 Gamma analysis of that air sample, taking  
9 the nuclides in that, decay corrected it, now for March  
10 22nd and I'm using our summer fractional limits program  
11 and our laboratories have developed what dose rate you  
12 expect to get from internal from that cloud. And we  
13 also had an external dose rate from the cloud based on  
14 our gamma surveys we had at the time --

15 TIM HARRIS: Right.

16 JOHN HALLWORTH: -- which showed a highest  
17 rate of 0.02 millirem per hour. And then we've scaled  
18 that for distance using standard (indiscernible, possibly  
19 \*) factors, the sigma Y, sigma D column that you figure  
20 out based how close you are to the source, what you would  
21 expect to get.

22 TIM HARRIS: Right.

23 JOHN HALLWORTH: So are there any specific  
24 questions?

25 TIM HARRIS: No. I'm having a health

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1 physicist look at is so I don't, okay. If we do that,  
2 we'll give you guys a call back before I guess, was there  
3 a call to discuss this or --

4 JOHN HALLWORTH: I'm sure we can set one  
5 up this week.

6 TIM HARRIS: No. Okay.

7 JOHN HALLWORTH: I don't think there's a  
8 specific one, but we appreciate any feedback or concerns  
9 you guys have.

10 TIM HARRIS: Yes, we'll do that. We will  
11 close it out by email. I'll give you a call if we've  
12 got some questions.

13 JOHN HALLWORTH: Okay. So you're Mr. Harris  
14 from DOE?

15 TIM HARRIS: No, NRC.

16 JOHN HALLWORTH: NRC, sorry. Got to keep  
17 it straight.

18 TIM HARRIS: We used to be the same, but  
19 now we're different.

20 JOHN HALLWORTH: That was a long time ago.

21 TIM HARRIS: Yes. Okay, John.

22 JOHN HALLWORTH: All right.

23 TIM HARRIS: All right. Thanks.

24 JOHN HALLWORTH: Thank you.

25 TIM HARRIS: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 PAM HENDERSON: Hello?

4 TIM HARRIS: Pam, hey. It's Tim Harris at  
5 Headquarters. How are you?

6 PAM HENDERSON: Hi. I'm good.

7 TIM HARRIS: I think we're on a recorded  
8 line. I'm supposed to tell you that.

9 PAM HENDERSON: Okay.

10 TIM HARRIS: I talked to Don and Don had  
11 some additional questions like I think we're trying to  
12 figure out what the actual reportable limit would be.  
13 So I think we can get that here.

14 PAM HENDERSON: Oh, I can send that to you.

15 TIM HARRIS: So he wanted to know what level  
16 would cause them to do a 30-day report.

17 PAMHENDERSON: Twentypicocuriesperliter.

18 TIM HARRIS: So the Ganay is actually over  
19 it then, huh?

20 PAM HENDERSON: Yes, yes. I'll send you  
21 an earlier email that I got from Rich Kanaster (phonetic)  
22 who is in Headquarters and a health physicist.

23 (b)(5)  
24  
25

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1 (b)(5)

2 TIM HARRIS: Sure.

3 PAM HENDERSON: -- because of the plant and  
4 that we should be sensitive to that. So I'll send you  
5 that email, has drinking water, water, and air. And  
6 this is ground water.

7 TIM HARRIS: Yes.

8 PAM HENDERSON: Or rainwater.

9 TIM HARRIS: Surface water, yes.

10 PAM HENDERSON: Yes, surface water.

11 TIM HARRIS: Any idea what their minimum  
12 detectable is or what their typical --

13 PAM HENDERSON: Yes.

14 TIM HARRIS: -- normal readings are?

15 PAM HENDERSON: That should have been in  
16 one of the emails that I forwarded. But hold on I'll  
17 get that for you now. And are you, is it still PMT12?

18 TIM HARRIS: Yes, exactly.

19 PAM HENDERSON: Okay.

20 TIM HARRIS: Let me see if I've gotten any  
21 other emails. No, that's the only email I got from you  
22 that's on --

23 PAM HENDERSON: Which one did you get?

24 TIM HARRIS: The one that forwarded the  
25 results from, I guess there was an email that you sent

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1 to John Rogge.

2 PAM HENDERSON: Rogge, yes.

3 TIM HARRIS: Yes.

4 PAM HENDERSON: If you look, I'm going to  
5 get online again.

6 TIM HARRIS: Yes, I'm sorry to call you on  
7 your day off.

8 PAM HENDERSON: No, no, no. That's okay,  
9 that's okay. Everybody's been calling me. I just want  
10 to get online. That has the results from Nine Mile and  
11 Ganay (phonetic) on it --

12 TIM HARRIS: Yes, ma'am.

13 PAM HENDERSON: -- the one that I sent you.  
14 Somewhere in there, I think it talks about the LLD,  
15 but hold on.

16 TIM HARRIS: Not that I see here.

17 PAM HENDERSON: Okay. Let me look, let me  
18 look.

19 TIM HARRIS: So from the analytic, any idea  
20 what their minimum detectable level is?

21 PAM HENDERSON: Yes, that's what I'm going  
22 to get for you.

23 TIM HARRIS: Okay.

24 PAM HENDERSON: I think it's, oh let me just  
25 before I speculate, it's just been very slow.

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1 TIM HARRIS: And then Don was, I guess,  
2 wondering what the dose might be. But I'm sure that  
3 we probably calculate that based on the --

4 PAM HENDERSON: Oh, I don't think it's dose.  
5 I mean it's very, very low and I would suggest calling  
6 (indiscernible, possibly "Undane Shupe"). Her group  
7 has all the health physicists in it --

8 TIM HARRIS: Yes.

9 PAM HENDERSON: -- and (indiscernible,  
10 possibly "does orders"). So she's an NRR Branch Chief.  
11 Hold on.

12 TIM HARRIS: Yes, I know Undane.

13 PAM HENDERSON: Yes. She would be a good  
14 person to call if you need any dose calculations.

15 TIM HARRIS: So we got a couple of health  
16 physicists on the PMT here.

17 PAM HENDERSON: Okay, great. Then you're  
18 good. Looking for that email, then I can forward to  
19 you. Okay, here we go. I'm forwarding to you a level  
20 and they're from different new regs. So what's the best  
21 email to use, just the --

22 TIM HARRIS: The PMT12 works fine.

23 PAM HENDERSON: PMT12.hoc --

24 TIM HARRIS: Yes.

25 PAM HENDERSON: - Dot --

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1 TIM HARRIS: I think it's at, @NRC.gov.

2 PAM HENDERSON: @NRC.gov. Okay.

3 Basically what is the levels mixed from the (indiscernible,  
4 possibly \*) and both the nuclear and the health physicists  
5 will be more familiar with this, the reporting levels.  
6 And it's a 30-day report.

7 TIM HARRIS: So any idea, you were talking  
8 about the MDLs or the --

9 PAM HENDERSON: Yes. I have to go to a  
10 different email for that.

11 TIM HARRIS: Okay, okay. Yes because I see  
12 here that --

13 (Pause)

14 PAM HENDERSON: Okay. I think the MDA at  
15 Ganay is 16.6 picocuries per liter.

16 TIM HARRIS: Okay.

17 PAM HENDERSON: It'll be around the same  
18 for other ones. So you can see this is just barely above  
19 minimum detectable level, but let me send that.

20 TIM HARRIS: But any idea what they, I mean  
21 do they typically get a non-detect? Is that the typical  
22 reading?

23 PAM HENDERSON: I asked that same question.  
24 Good question. Let me send you the answer. What they  
25 say is normally Ganay does not sample rainwater, but

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1 they did in this case to support NMP. So there's no  
2 comparison for past results.

3           However, Ganay Chem Supervisor informed this  
4 is a resident that they shouldn't see any I-131 in rainwater.

5           2009 REM report for iodine 131 was last seen in the  
6 LLD. Okay?

7           TIM HARRIS: Okay.

8           PAM HENDERSON: 2010 is likely to show the  
9 same. So I'm going to forward that to you also.

10           TIM HARRIS: Okay. All right. Well I think,  
11 anything else I need to know that Don's going to ask  
12 me that you can tell me now?

13           PAM HENDERSON: I'm trying to send you all  
14 the emails that I have from Rich Kanaster, too. I sent  
15 you one already, but he sent a second one. Let's see.  
16           The second one, yes. He was talking about San Onofre,  
17 Diablo Canyon, Palo Verde are reporting air samples.

18           TIM HARRIS: Right.

19           PAM HENDERSON: And this is what you told  
20 me about. But over the weekend they were a little higher,  
21 but they still don't approach what I just sent you in  
22 the first email that would require reporting.

23           But the rainwater that we're seeing at Ganay  
24 and Nine Mile would, which it's close to that. Okay,  
25 let's see, forward this to you and then I think you have

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1 everything that I have.

2 So basically in terms of, some of these are  
3 above the LD and one is above the reporting level that's  
4 in the orchard, which I assume is still on site.

5 TIM HARRIS: Yes. Okay. Let me read the  
6 last email.

7 PAM HENDERSON: Okay.

8 TIM HARRIS: Okay. All right. So I think  
9 that answers all of Don's questions and I will close  
10 this out in an email to you and let you know what the  
11 ET said.

12 PAM HENDERSON: Great. Thanks.

13 TIM HARRIS: Okay. And if I need to get  
14 a hold of you, I can call you again?

15 PAM HENDERSON: Yes, sure.

16 TIM HARRIS: Okay. Thanks, Pam.

17 PAM HENDERSON: Okay, sure.

18 TIM HARRIS: Bye.

19 PAM HENDERSON: Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 NIMA ASHKEBOUSSI: Protective Measures  
4 Team.

5 HEADQUARTERS OPERATIONS OFFICER: Yes, I've  
6 got John from Naval Reactors trying to get in touch with  
7 Tim Harris. I'm connecting you now.

8 NIMA ASHKEBOUSSI: Okay. Thanks. This is  
9 Protective Measures Team.

10 JOHN: Hi. Is Tim there?

11 NIMA ASHKEBOUSSI: Tim stepped away right  
12 now. He should be back in a minute or two. Can we help  
13 you with something? This is Nima.

14 JOHN ROROS: Hey, Nima. This is John Roros.  
15 And I'm trying to figure out how you guys are coming  
16 with the analysis of the chart we sent you guys from  
17 Naval Reactors?

18 NIMA ASHKEBOUSSI: Okay. I'm not familiar  
19 with the chart. Let me have Tim call you back. He should  
20 be back in a minute or two.

21 JOHN ROROS: Okay. My number is, what's  
22 the number over there? I think it's 6501, 202-781-5601.

23 NIMA ASHKEBOUSSI: That's your direct  
24 number?

25 JOHN ROROS: Yes.

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1 NIMA ASHKEBOUSSI: I'm sorry, what was your  
2 name again?

3 JOHN ROROS: John --

4 NIMA ASHKEBOUSSI: John?

5 JOHN ROROS: -- Roros, R-O-R-O-S.

6 NIMA ASHKEBOUSSI: Okay. Thanks. I'll  
7 have him give you a call shortly.

8 JOHN ROROS: You got it.

9 NIMA ASHKEBOUSSI: Okay. Thanks, John.  
10 Bye.

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(CONFERENCE CALL INITIATED)

JOHN HALLWORTH: Naval Reactors,  
(indiscernible, possibly "ETC").

TIM HARRIS: Yes. I was trying to get a  
hold of John.

JOHN HALLWORTH: John Roros?

TIM HARRIS: John Hallworth.

JOHN HALLWORTH: This is him.

TIM HARRIS: Oh, hey. This is Tim Harris  
at the NRC returning your call. We're on a recorded  
line.

JOHN HALLWORTH: Okay.

TIM HARRIS: Oh, John Roros, sorry.

JOHN HALLWORTH: John Roros.

JOHN ROROS: Roros.

TIM HARRIS: Hey, this is Tim Harris at the  
NRC returning your call.

JOHN ROROS: Hey, Tim. How are you doing,  
bud?

TIM HARRIS: Good.

JOHN ROROS: Hey, I was calling to follow  
up on that table, see how you guys were coming because  
Mueller who's supposed to talk to the Ambassador again  
at 9:00 their time.

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1 TIM HARRIS: Which is coming up in?

2 JOHN ROROS: A half hour?

3 TIM HARRIS: Yes. All right. Let me check  
4 with the health physicist and I'll give you a call right  
5 back.

6 JOHN ROROS: Thank you, sir.

7 TIM HARRIS: Okay. Bye.

8 JOHN ROROS: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Tim Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 John Roros with Naval Reactors on the line. He wants  
6 to speak with you.

7 TIMHARRIS: Okay, great. Thanks. Hey John,  
8 are you there?

9 JOHN ROROS: Yes.

10 TIM HARRIS: Okay. I've got you on speaker  
11 phone. I've also got Steve Lavie who looked at the analysis  
12 who's going to give you some feedback.

13 JOHN ROROS: Okay. Let me ask you a question.  
14 Can I get you guys to call into the bridge so I get  
15 my guys on the phone as well? I have a bridge line that  
16 I can give you a number to call into.

17 STEVE LAVIE: I don't see no reason why not.

18 JOHN ROROS: Okay. It'll be a lot easier  
19 that way. It's 203-607-1384.

20 TIM HARRIS: Is there a pass code?

21 JOHN ROROS: There is, (b)(6)

22 TIM HARRIS: Okay.

23 JOHN ROROS: Thanks.

24 TIM HARRIS: All right. See you, John.

25 JOHN ROROS: Yes.

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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: Protective Measures  
4 Team.

5 HEADQUARTERS OPERATIONS OFFICER: I've got  
6 Columbia Generating Station on the line for you please,  
7 sir.

8 MALE PARTICIPANT: Okay. Protective  
9 Measures Team.

10 PETE VALINSKI: Hi, this is Pete Valinski  
11 at Columbia Generating Station.

12 MALE PARTICIPANT: Hi, Pete.

13 PETE VALINSKI: Hello. Who is this, please?

14 NIMA ASHKEBOUSSI: This is Nima Ashkeboussi  
15 with the Nuclear Regulatory Commission Protective  
16 Measures Team.

17 PETE VALINSKI: Nima, okay. We've been  
18 requested by Region IV to make a courtesy notification  
19 to you regarding the detection of iodine 131 --

20 NIMA ASHKEBOUSSI: Okay.

21 PETE VALINSKI: -- from off site sources.

22 NIMA ASHKEBOUSSI: Do you have a measurement  
23 on what you've collected?

24 PETE VALINSKI: We do.

25 NIMA ASHKEBOUSSI: Okay.

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1 PETE VALINSKI: We drew two samples. One  
2 indicated the presence of iodine 131 at  $6.74 D^{-13}$  microcuries  
3 per cc.

4 NIMA ASHKEBOUSSI: Okay.

5 PETE VALINSKI: With a minimum detectable  
6 activity for the sampling at  $5.23 E^{-13}$  microcuries per  
7 cc.

8 NIMA ASHKEBOUSSI: Could you run that number  
9 one more time?

10 PETE VALINSKI: Sure,  $5.23 E^{-13}$  microcuries  
11 per cc. That was the MDA for the samples.

12 NIMA ASHKEBOUSSI: Okay.

13 PETE VALINSKI: So we drew two samples.  
14 One indicated iodine and the other did not.

15 NIMA ASHKEBOUSSI: Okay. And this is the  
16 first time you've identified iodine in your sampling?

17 PETE VALINSKI: That's correct.

18 NIMA ASHKEBOUSSI: Okay. Thank you very  
19 much.

20 PETE VALINSKI: Is that all you needed to  
21 know?

22 NIMA ASHKEBOUSSI: That's all I need to know.

23 PETE VALINSKI: All right. Can I get the  
24 spelling of your name, please?

25 NIMA ASHKEBOUSSI: Sure. First name is Nima,

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1 N-I-M-A. Last name is A-S as in September, H-K-E-B as  
2 in boy, O-U, September, September, I.

3 PETE VALINSKI: Way too fast.

4 NIMA ASHKEBOUSSI: Sorry.

5 PETE VALINSKI: I got A-S-H-A-K --

6 NIMA ASHKEBOUSSI: A-S-H-K-E-B-O-U-S-S-I.

7 PETE VALINSKI: S-S as in Sierra?

8 NIMA ASHKEBOUSSI: Sierra, Sierra, I.

9 PETE VALINSKI: Sierra, Sierra, I.

10 Ashkeboussi?

11 NIMA ASHKEBOUSSI: Yes.

12 PETE VALINSKI: Okay. All right.

13 NIMA ASHKEBOUSSI: Well thanks for the call.

14 PETE VALINSKI: Thank you, Nima.

15 NIMA ASHKEBOUSSI: You're welcome. Bye.

16 PETE VALINSKI: Okay. Bye bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 NIMA ASHKEBOUSSI: Protective Measures  
4 Team.

5 HEADQUARTERS OPERATIONS OFFICER: I've got  
6 somebody from NARAC on the line.

7 NIMA ASHKEBOUSSI: Okay great. Thanks.  
8 This is the Protective Measures Team.

9 SEAN KNAPP (phonetic): Yes, hi. This is  
10 Sean Knapp from NARAC. I took a call earlier from Nima  
11 Ashkeboussi.

12 NIMA ASHKEBOUSSI: Yes.

13 SEAN KNAPP: Is that you?

14 NIMA ASHKEBOUSSI: This is he, yes.

15 SEAN KNAPP: Oh, hi. So I called the NIT  
16 and they're fine with us giving you (indiscernible,  
17 possibly\*) concentrations. Unfortunately we're working,  
18 our number one priority right now is to redo that whole  
19 Trans-Pacific analysis with Melchore.

20 NIMA ASHKEBOUSSI: Okay.

21 SEAN KNAPP: And the same people that are  
22 doing and reviewing and QA'ing that would be the ones  
23 to do the, go back to the super core Trans-Pacific run.

24 NIMA ASHKEBOUSSI: Okay.

25 SEAN KNAPP: So I guess, mainly I'm trying

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1 to figure out is there some other way that you can get  
2 your questions answered. And it might help if we kind  
3 of knew what question they were trying to answer.

4 Are they trying to analyze the airborne dose  
5 versus the ingestion dose or, I'm trying to figure if  
6 there's some other way we can help you if we knew what  
7 you needed.

8 NIMA ASHKEBOUSSI: Okay.

9 SEAN KNAPP: Or someone else can answer a  
10 quick question.

11 NIMA ASHKEBOUSSI: Well, the direct question  
12 that we have from our Chairman, give me one second to  
13 pull that up. The exact question we have is what is  
14 the actual activity of iodine in the plume.

15 SEAN KNAPP: Okay. Yes, okay. They don't  
16 know why they need that and presumably they want do an  
17 analysis, right?

18 NIMA ASHKEBOUSSI: I don't think this is  
19 for analysis.

20 SEAN KNAPP: Oh.

21 NIMA ASHKEBOUSSI: It's just for  
22 informational purposes that our Chairman wants.

23 SEAN KNAPP: Oh, okay. All right. So okay  
24 good. I was hoping we weren't holding up some critical  
25 NRC analysis. Okay, it sounds like it's just an

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1 information thing. Okay. So we'll put that in our queue.

2 NIMA ASHKEBOUSSI: Okay.

3 SEAN KNAPP: And we will, well, you know,  
4 we'll do it as priorities allow obviously just like you  
5 do everything.

6 NIMA ASHKEBOUSSI: Sure.

7 SEAN KNAPP: But I know we have the  
8 information in our system. It's the guy who gets that  
9 out --

10 NIMA ASHKEBOUSSI: He's on something else?

11 SEAN KNAPP: And this is an analysis that's  
12 supposed to be the magic one. You know, uses a better  
13 source term from you guys.

14 NIMA ASHKEBOUSSI: Right.

15 SEAN KNAPP: And et cetera, et cetera. So  
16 okay. I think we understand the priority so that's good.

17 NIMA ASHKEBOUSSI: Okay.

18 SEAN KNAPP: All right. Thanks a lot and  
19 have a good evening.

20 NIMA ASHKEBOUSSI: Sean, do you have an idea  
21 of when it might be done?

22 SEAN KNAPP: Unfortunately it's probably  
23 going to be on the next shift.

24 NIMA ASHKEBOUSSI: Okay.

25 SEAN KNAPP: Just because the guy who's on

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1 this shift is swamped with that and then there's a hand  
2 over.

3 NIMA ASHKEBOUSSI: Okay.

4 SEAN KNAPP: Okay.

5 NIMA ASHKEBOUSSI: Thank you.

6 SEAN KNAPP: Bye.

7 NIMA ASHKEBOUSSI: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Pam Henderson from Region, yes, I think it is.

6 TIM HARRIS: Region I. Okay.

7 HEADQUARTERS OPERATIONS OFFICER: All right.  
8 Connecting you.

9 TIM HARRIS: Sure. Hey Pam, Tim Harris in  
10 the PMT area.

11 PAM HENDERSON: Hi. I spoke earlier today  
12 with Kathy Brock to let her know that we had reports  
13 of elevated I-135 readings at Nine Mile Point.

14 And a little a while ago I forwarded the  
15 readings that the licensee has verified along with  
16 readings from Ganay, which is 90 miles away from Nine  
17 Mile Point. And they're showing elevated levels of I-131  
18 in rainwater and in water collected, you know, in storm  
19 drains and things like that.

20 We wanted you to discuss that with your  
21 Executive Team. I mean, we didn't want to go over your  
22 head or anything. But we're concerned that, you know,  
23 how many other licensees are seeing elevated iodine.  
24 And if we're seeing --

25 TIM HARRIS: Well, I mean we've been having

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1 the West Coast plants take readings, rooftop readings  
2 and we've been getting some information.

3 PAM HENDERSON: Yes. I mean, I guess my  
4 concern is they're close to the limits to report, to  
5 do a 30-day report, and it might not be because of anything  
6 that's going at their site.

7 TIM HARRIS: Sure.

8 PAM HENDERSON: And so we're wondering is  
9 this happening at other sites, you know, other plants  
10 across the country.

11 TIM HARRIS: Okay.

12 PAM HENDERSON: So we just wanted you to  
13 elevate that to your ET.

14 TIM HARRIS: Okay. I just did a turnover  
15 with Kathy and I see your email here.

16 PAM HENDERSON: Yes.

17 TIM HARRIS: So we just did a shift change.  
18 So I'll discuss it with Don. How late are you there  
19 today?

20 PAM HENDERSON: Well, let me give you my  
21 number. I'm at home, but, yes I'm available at any point.

22 TIM HARRIS: Well, I just wanted to be  
23 responsive of getting back to you and let you know that  
24 we did contact the ET and what the outcome was.

25 PAM HENDERSON: Okay.

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1 TIM HARRIS: So I can either do that by phone  
2 or by email.

3 PAM HENDERSON: You can do it by email and  
4 if you would please cc, I'm Pamela Henderson, and the  
5 Deputy for the Division of Reactor Safety is currently  
6 Sunil Weerakody.

7 TIM HARRIS: That wasn't on your email.

8 PAM HENDERSON: Yes. His last name is  
9 W-E-E-R-A --

10 TIM HARRIS: Wait a minute, W-E-E-R-A.

11 PAM HENDERSON: -- C-O-D-Y or it's K-O-D-Y.

12 TIM HARRIS: Yes, I'm sure I can find that.

13 PAM HENDERSON: Yes. It'll pop right up.  
14 And Peter Wilson. I mean, there's nobody else with  
15 a name like that. And Peter Wilson and they'll decide  
16 what they want to do from there.

17 But they've talked to our Deputy Regional  
18 Administrator who, you know, told them to go ahead back  
19 through the PMT to elevate it to the ET.

20 TIM HARRIS: Okay.

21 PAM HENDERSON: And I know you guys aren't  
22 really looking at this kind of thing, but maybe somebody  
23 should be.

24 TIM HARRIS: Well, I know we've been getting  
25 data from the West Coast, but I don't think it's stemmed

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1 to the, they were reporting, yes the data that they was  
2 reporting was like  $10^{-12}$ .

3 PAM HENDERSON: Yes, I saw that.

4 TIM HARRIS: But this is much higher.

5 PAM HENDERSON: Yes. What they were seeing  
6 was in the air. I don't know what they're seeing in  
7 rainwater because it doesn't rain in California as much  
8 as it does. But it did rain there over the weekend.  
9 I don't know whether they took samples.

10 TIM HARRIS: So this is water samples?

11 PAM HENDERSON: Right.

12 TIM HARRIS: Got you.

13 PAM HENDERSON: And so this could very easily,  
14 you know, in the atmosphere have gone right over to the  
15 West Coast and it's hitting the East Coast. I mean, there  
16 were definitely pockets like that during Chernobyl and  
17 TMI and stuff. You know, it can go right over some areas.

18 TIM HARRIS: Sure.

19 PAM HENDERSON: So that's why we're a little  
20 concerned that maybe we should be checking other places  
21 other than the West Coast, it might not be hitting there.

22 TIM HARRIS: All right.

23 PAM HENDERSON: Then again the licensees  
24 aren't saying this in Japan, but what they are saying  
25 is that these are not typically what they would see.

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1                   TIM HARRIS: Right. Okay. I'll discuss it  
2 with the Director and then close this out with an email  
3 sometime when we get some resolution or direction from  
4 the ET.

5                   PAM HENDERSON: Okay.

6                   TIM HARRIS: All right?

7                   PAM HENDERSON: I really appreciate it.  
8 Thanks.

9                   TIM HARRIS: Yes. Noworries. Thanks, Pam.

10                  PAM HENDERSON: Bye.

11                  TIM HARRIS: Bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHY BROCK: Protective Measures.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Tim Reilly on the line for you.

6 KATHY BROCK: Tim Reilly. Okay. This is  
7 Kathy Brock with Protective Measures.

8 TIM REILLY: Hi Kathy, this is Tim Reilly  
9 from Congressional Affairs.

10 KATHY BROCK: Oh, hey. How you doing?

11 TIM REILLY: Doing very well. I have this  
12 inquiry that came in from a congressional staffer. And  
13 I have some knowledge of the issue, but I wanted to run  
14 it by you before I give a one sentence answer that could  
15 land us with a lot of reporting.

16 KATHY BROCK: Okay.

17 TIM REILLY: So the question came in and  
18 asked did Illinois submit to NRC a KI distribution plan?

19 KATHY BROCK: I have not seen anything from  
20 Illinois on the KI distribution.

21 TIMREILLY: AndPatriciaMilligan (phonetic)  
22 responded the same, that she had no knowledge of the  
23 plan.

24 KATHY BROCK: She's in tune with everything  
25 KI in the agency.

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1 TIM REILLY: That's what I thought.

2 KATHY BROCK: Yes.

3 TIM REILLY: So my question is actually a  
4 little bit wider scoped. What is the NRC, I mean do  
5 we check that the states have this plan? Do we, I mean  
6 --

7 KATHY BROCK: As part of the regulations,  
8 I guess it's in 5047 I think, states have to consider  
9 these as potassium iodide in their planning. Okay. So  
10 if you consider it, NRC doesn't say whether or not they  
11 will use KI as part of planning.

12 TIM REILLY: Okay.

13 KATHY BROCK: So do we double check that?  
14 We know the answer for each state whether or not they're  
15 a KI state.

16 TIM REILLY: Right.

17 KATHY BROCK: I can't rattle them off to  
18 you.

19 TIM REILLY: No, no, no. That's okay. But  
20 I just wanted to make sure that if I say we have not  
21 reviewed the plan, that we're not saying that we should  
22 have, but we haven't.

23 KATHY BROCK: Well, the state plans are more  
24 reviewed by FEMA.

25 TIM REILLY: Okay.

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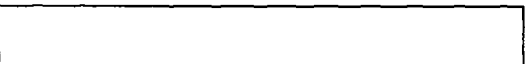
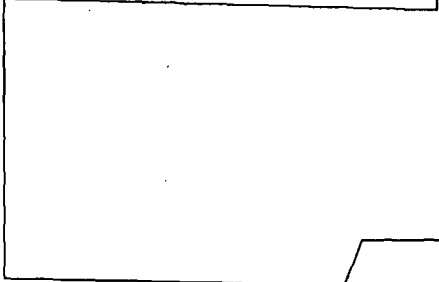
1 KATHY BROCK: We're aware of them. We have  
2 them on file, that kind of a thing. FEMA reviews the  
3 state plans.

4 TIM REILLY: I do have language that says  
5 FEMA is the responsible authority for verifying the  
6 appropriateness of emergency response plans.

7 KATHY BROCK: For states.


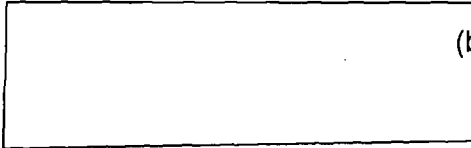
8 TIM REILLY: For states, okay.

9 KATHY BROCK: Yes.

10 TIM REILLY:   
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12 (b)(5)  
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14

15 KATHY BROCK: No. And we do know what they're  
16 doing because if I tried, I could find their plan on  
17 our Website.

18 TIM REILLY: I don't want to put you through  
19 any of the hoops. But I just wanted to make sure that,  
20 you understand what I'm saying?

21 KATHY BROCK:   
22   
23 (b)(5)

24 TIM REILLY: Okay.

25 KATHY BROCK: And get the questions.

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TIM REILLY: Great.

KATHY BROCK: Thanks.

TIM REILLY: Thank you so much.

KATHY BROCK: Okay. Bye.

TIM REILLY: Bye bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 KATHY BROCK: Protective Measures Team.

4 HEADQUARTERS OPERATIONS OFFICER: I have  
5 Holly Harrington on the line. Please hold.

6 KATHY BROCK: Yes. Hi, Holly.

7 HOLLY HARRINGTON: Hi, Katherine. This is  
8 really strange. I tried calling the two numbers that  
9 Persanta (phonetic) put in his email and neither one  
10 of them went through. It's very weird.

11 KATHY BROCK: Are you in here?

12 HOLLY HARRINGTON: No, I'm calling from One  
13 White Flint.

14 KATHY BROCK: Okay.

15 HOLLY HARRINGTON: Sorry.

16 KATHY BROCK: No. Can you call 816-5407  
17 as a direct number? I don't think you can.

18 HOLLY HARRINGTON: Okay because that was  
19 the problem. And then he also listed 816-5415.

20 KATHY BROCK: We got two phones here.

21 HOLLY HARRINGTON: When I called that, it  
22 went to somebody outside the NRC.

23 KATHY BROCK: Weird. Yes, I think you just  
24 have to call through the HOO.

25 HOLLY HARRINGTON: Yes, I just try not to

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1     bother them.

(b)(5)

2     (b)(5)

3             KATHY BROCK: No, that's okay.

4             HOLLY HARRINGTON: Anyway, did you see what  
5     I sent?

6             KATHY BROCK: I did and I took a quick pass  
7     at it and then I was kind of thinking a little bit.  
8     Overall, I don't think there's anything wrong with it.

9     The problem is, you know, there's so much you could  
10    say to keep it short. And one thing, well I don't know.

11            HOLLY HARRINGTON: It's a little bit longer  
12    than I'd like, but I think a thought is it needs to be  
13    thoroughly complete.

14            KATHY BROCK: Well if you want to take down  
15    my comments now.

16            HOLLY HARRINGTON: Sure. Let me bring it  
17    up.

18            KATHY BROCK: Since there's not much.

19            HOLLY HARRINGTON: Oops. Sorry. Wait a  
20    second, that's not it. I'm getting tired and less  
21    effective as every day goes by, you know what I'm saying?

22            KATHY BROCK: I'm a mess today. I need to  
23    leave. But hang on real quick, okay?

24            HOLLY HARRINGTON: Sure.

25            KATHY BROCK: All right. I'm just asking

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1 Arlan (phonetic) because he was taking a look at it,  
2 but then he stopped and didn't finish.

3 HOLLY HARRINGTON: Okay. All right, got  
4 it in front of me.

5 KATHY BROCK: All right. This area, second  
6 paragraph, is known as the Ten Mile Emergency Planning  
7 Zone.

8 HOLLY HARRINGTON: Okay.

9 KATHY BROCK: Go down to the 1, 2, 3, fourth  
10 paragraph. I guess to clarify the advisory to evacuate  
11 to 50 miles.

12 HOLLY HARRINGTON: Wait a second. Okay.  
13 So the paragraph is the advisory was based on calculations  
14 done by --

15 KATHY BROCK: Yes. And so I would say the  
16 advisory to evacuate to 50 miles.

17 HOLLY HARRINGTON: Oh, I see. Okay.

18 KATHY BROCK: -- makes the calculations  
19 indicating releases from the four Hobu (phonetic) Japanese  
20 plants and spent fuel pools.

21 HOLLY HARRINGTON: Yes.

22 KATHY BROCK: And you did catch that at the  
23 end.

24 HOLLY HARRINGTON: Should we clarify that  
25 as reactors and fuel pools?

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1 KATHY BROCK: I think that's better, yes.

2 HOLLY HARRINGTON: Okay. Was it a total  
3 of four?

4 KATHY BROCK: Well at the time, we were  
5 looking at four reactors and two spent fuel pools.

6 HOLLY HARRINGTON: All right. Hang on. So  
7 I would say four Hobu Japanese reactors and two spent  
8 fuel pools?

9 KATHY BROCK: Well leave the four and the  
10 two out, just Japanese reactors and spent fuel pools.

11 HOLLY HARRINGTON: Except that that's --

12 KATHY BROCK: Oh, you wrote four. Oh, okay.

13 HOLLY HARRINGTON: -- (indiscernible,  
14 possibly \*) our point.

15 KATHY BROCK: Yes, that that's why it was  
16 so much.

17 HOLLY HARRINGTON: Yes.

18 KATHY BROCK: Okay. Fine.

19 HOLLY HARRINGTON: Okay.

20 KATHY BROCK: All right. What did I write  
21 at the end of that paragraph? The advisory was, I'll  
22 repeat it again if you want, but this advisory was made  
23 using limited and conservative information available  
24 from Japan.

25 HOLLY HARRINGTON: I'm sorry. Are we still

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1 on that same paragraph?

2 KATHY BROCK: Yes.

3 HOLLY HARRINGTON: Okay. So the advisory  
4 to evacuate to 50 miles was based on calculations done  
5 by NRC experts indicating releases from the four Hobu  
6 Japanese reactors and two fuel pools could, and the keyword  
7 there is 'could. And then you have something else at  
8 the end there?

9 KATHY BROCK: Yes. Possibly  
10 (indiscernible, possibly\*) conservatively set radiation  
11 (indiscernible, possibly \*) limits for adults. This  
12 advisory --

13 HOLLY HARRINGTON: For adults, okay. All  
14 right period.

15 KATHY BROCK: Oh no, no for the public.  
16 I'm sorry. Public.

17 HOLLY HARRINGTON: Okay, for the public.

18 KATHY BROCK: I don't know where that came  
19 from. Then I was writing this advisory was made using  
20 limited data and conservative assumptions.

21 HOLLY HARRINGTON: Yes.

22 KATHY BROCK: Okay. Probably good enough.

23 HOLLY HARRINGTON: I understand. Right.  
24 Okay, I just added that.

25 KATHY BROCK: All right. Then your question

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1 about there was no FEMA involvement in that task force?

2 HOLLY HARRINGTON: Right.

3 KATHY BROCK: I don't know the answer, but  
4 Trish is answering some emails so you might get her.

5 HOLLY HARRINGTON: Well, you know, okay.

6 KATHY BROCK: I just don't know if FEMA was  
7 there.

8 HOLLY HARRINGTON: I'll come back to that  
9 in a second.

10 KATHY BROCK: Okay.

11 HOLLY HARRINGTON: Just keep going.

12 KATHY BROCK: Then on Page 2, okay, coming  
13 from Page 1 to 2, once every six years each plant takes  
14 part in an exercise created by FEMA.

15 HOLLY HARRINGTON: Okay. In an exercise  
16 created by FEMA, okay.

17 KATHY BROCK: Then in the next paragraph,  
18 a key NRC report, which report is that? Is that new  
19 reg 0654?

20 HOLLY HARRINGTON: I don't know. I did not  
21 write this.

22 KATHY BROCK: Oh. So does 0654 say, it's  
23 probably new reg 0654. But I don't know that like the  
24 back of my hand like others do.

25 HOLLY HARRINGTON: Here, tell me that again,

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1 new reg?

2 KATHY BROCK: 0654.

3 HOLLY HARRINGTON: I'll check on that.

4 KATHY BROCK: All right. That's kind of  
5 as far as I got. And so this is just to confirm. This  
6 is a blog post where you're hoping to stop all the questions  
7 where people are asking about press release.

8 HOLLY HARRINGTON: Well this is, yes, I mean  
9 I suppose it's about the press release. But it's actually  
10 about the action that we took and the press release just  
11 announced the action about the 50 mile recommendation.

12 And apparently Region I is building  
13 specifically, is getting just clobbered by, you know,  
14 by the state officials, local officials, all kinds of  
15 people about this. I felt that we need to explain it.

16 And this is a lot more explanation than I'd like for  
17 a blog post, but it's the only avenue that we have because  
18 it's not really a press release.

19 KATHY BROCK: Yes.

20 HOLLY HARRINGTON: And since we would get  
21 this out today, so if you will finish looking at it.  
22 You said Trish is looking at it as well?

23 KATHY BROCK: No, I said Arlan was here taking  
24 a peek at it. I don't know if you know Arlan Costa,  
25 but Trish is in her office. She might know the answer

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1 to the question about --

2 HOLLY HARRINGTON: Oh, I see. All right.  
3 I'll call her.

4 KATHY BROCK: All right. I'll just run this  
5 by my Director real quick and make sure he's happy with  
6 it and then (indiscernible, possibly \*).

7 HOLLY HARRINGTON: Okay. And then the other  
8 question we have is do we need to run is do we need to  
9 run this by FEMA?

10 KATHY BROCK: Well, we mentioned FEMA. So  
11 yes, I think you should.

12 HOLLY HARRINGTON: Okay. All right. So if  
13 you'll do that, I'll talk to Trish and FEMA then.

14 KATHY BROCK: Okay.

15 HOLLY HARRINGTON: All right. Thank you,  
16 Katherine.

17 KATHY BROCK: All right. Bye.

18 HOLLY HARRINGTON: And actually I have  
19 something else I have to talk to you about, but I can  
20 do that later.

21 KATHY BROCK: Okay.

22 HOLLY HARRINGTON: Okay. Bye.

23 KATHY BROCK: Bye.  
24  
25

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1  
2 (CONFERENCE CALL INITIATED)

3 AUTOMATED MESSAGE: Welcome to the  
4 conferencing calling center. At any time during this  
5 message, please enter your pass code followed by the  
6 pound sign.

7 Your pass code has been confirmed. If you  
8 need technical assistance during your call, press star  
9 0. After the tone, please state your name followed by  
10 the pound sign.

11 KATHY BROCK: Kathy Brock, NRC.

12 AUTOMATED MESSAGE: There are 26 parties  
13 in conference, including you.

14 MALE PARTICIPANT: Okay. If there's  
15 anything you want to talk about again offline, we can  
16 talk about it. We're running up against our 2:00 FRPCC  
17 call, so unless anybody has any burning, burning issues,  
18 we'll adjourn this until 2:00 tomorrow back to our regular  
19 time because we don't have a FRPCC meeting tomorrow as  
20 far as I know. Okay.

21 MALE PARTICIPANT: Lynn, are you still on  
22 the phone?

23 LYNN: I'm still on.

24 MALE PARTICIPANT: Thank you everybody.  
25 We're done.

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MALE PARTICIPANT: Lynn?

LYNN: Yes.

MALE PARTICIPANT: I --

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1  
2 (CONFERENCE CALL INITIATED)

3 BILL MEREDITH: Hello, this is Bill Meredith.

4 Today is Tuesday, March 22nd. I'm in the office today,  
5 however, at the moment I'm either away from my desk or  
6 on the phone.

7 If you'd like to leave me a message, please  
8 leave your name, number, and message after the tone and  
9 I'll return your call as soon as I can.

10 If you need to speak to someone immediately,  
11 please press 0 and ask to speak to either Lucy Owen or  
12 Anita Tenenbaum (phonetic). Thanks.

13 KATHY BROCK: Hey, Kathy Brock calling from  
14 the PMT. I got your question from the state of Arizona  
15 and I started to write a big response when I thought oh  
16 I'm just going to call.

17 So the way I think we're going to handle  
18 this is that, I mean, you know how it goes. The state  
19 will make the protective action decision and if they  
20 want to issue KI, the NRC would probably review their  
21 decision and agree with it or not agree with it.

22 So at this point, you can tell them that  
23 there's no air concentration that the NRC would consider  
24 to trigger the use of KI. You know, it's based on the  
25 projected readings that we get off of RASCAL at the EPZ.

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1           So if they're looking for concurrence on  
2 their plan to looks like probably not issue KI, it didn't  
3 really say what they were doing, we would probably just  
4 review that and nod our head or shake our head.

5           So I think I'm probably not giving him what  
6 exactly what he wants, but we're not in a position to  
7 do confirmation or calculations. Anyway call us back  
8 through the HOO if you need to talk about it some more.

9       Okay. Thanks. Bye bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Naval Reactors, Rovos  
(Phonetic).

STEVE LAVIE: Yes, this is Steve Lavie from  
the NRC PMT.

MALE PARTICIPANT: Yes.

STEVE LAVIE: We had a conversation just  
a little bit ago.

MALE PARTICIPANT: Yes.

STEVE LAVIE: I have an additional question.  
Somebody pointed something out to me that I wanted to  
follow up on because it almost looks to me that we may  
have a circular calculation and I wanted to call them.

MALE PARTICIPANT: Here, let me give you  
back to the guy. Hey while I have you on the line, do  
you know by any chance if you guys have looked at the  
ground deposition information we sent over earlier today  
about 10:00? You know what I'm talking about?

STEVE LAVIE: Wait a minute. I think I  
did see something on that. Let me --

MALE PARTICIPANT: While you look for that,  
let me give you to my guy.

STEVE LAVIE: No, this wasn't the Navy.  
Oh yes, it was.

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1 MALE PARTICIPANT: This is (indiscernible,  
2 possibly \*).

3 STEVE LAVIE: Yes, this is Steve Lavie from  
4 the PMT again. And I'm apologizing I called you back.  
5 I went back and looked at this some more and I may have,  
6 it looks like we may have a circular calculation in one  
7 of the columns. Can you go to Category C?

8 MALE PARTICIPANT: Okay.

9 STEVE LAVIE: Okay. In Column D, if you  
10 click on the very first row, it's telling you to set  
11 that cell equivalent to D8 as a fixed value times C8  
12 as a fixed value and divide by the Sigma Y, Sigma Z for  
13 that row.

14 MALE PARTICIPANT: Right.

15 STEVE LAVIE: It appears that you're using  
16 Column 8, 1.97 E to the 7th as a fixed value.

17 MALE PARTICIPANT: Because that's our  
18 non-value so when we're dispersing it, we're doing it  
19 relative to that position.

20 When we do dispersal calculations from one  
21 location to another, we use the dispersal at a distance  
22 from the source, which I think is 175, and ratio that  
23 out to dispersal to a source at a different distance.  
24 And to do that, we need to divide out the assumed dispersal  
25 already from the source term, right?

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1 STEVE LAVIE: Oh, okay. Never mind. I was  
2 trying to look at this. I just happened to notice your  
3 number at one mile seems awfully large.

4 MALE PARTICIPANT: Yes, we don't  
5 (indiscernible, possibly \*) reliably. We don't believe  
6 in the liability exactly at that point.

7 STEVE LAVIE: Yes, it seems awfully high  
8 and that's why I was wondering if I had caught something  
9 because --

10 MALE PARTICIPANT: No, it's called a  
11 (indiscernible, possibly \*) calculation and we don't  
12 think it's going to be accurate. It's directly at the  
13 source.

14 STEVE LAVIE: What are you passing to your  
15 commanders? You're not giving them this raw data, are  
16 you?

17 MALE PARTICIPANT: No. We're going to be  
18 developing essentially (indiscernible, possibly  
19 "isodose") lines.

20 STEVE LAVIE: Okay.

21 MALE PARTICIPANT: And we're trying to  
22 coordinate that with the AMS data and also for your  
23 calculation we sent over on ground deposition.

24 STEVE LAVIE: Okay. Sorry to bother you  
25 again then. I was just a little concerned. I'm getting

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1 a little embarrassed, but how come I didn't see this  
2 before. Okay. You asked about data that was sent  
3 earlier.

4 MALE PARTICIPANT: Yes. We sent over about  
5 nine pages. It had some ground deposition nomographs  
6 and calculations associated with it. We were in the  
7 spirit of cooperation trying to get a similar review.  
8 We sent it to the PMT address and the DOE, NIT I believe,  
9 (Indiscernible, possibly \*).

10 STEVE LAVIE: What's that?

11 MALE PARTICIPANT: Sorry, what?

12 STEVE LAVIE: Where did you say you sent  
13 it?

14 MALE PARTICIPANT: To the DOE, sorry, the  
15 NRC PMT address and also to the DOE NIT address I believe.

16 STEVE LAVIE: Do you remember what number  
17 it was sent to, PMT12?

18 MALE PARTICIPANT: I can find it, one second.  
19 Yes, sent it to the PMT12 address.

20 STEVE LAVIE: Twelve. Okay, maybe I can  
21 see if I can find it. What time did you say again?

22 MALE PARTICIPANT: 10:30 this morning.

23 STEVE LAVIE: 10:30, Eastern Standard Time,  
24 right?

25 MALE PARTICIPANT: Yes.

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1 STEVE LAVIE: Okay.

2 MALE PARTICIPANT: We're daylight time now.

3 STEVE LAVIE: Daylight time, right. Yes,  
4 you're right. Let me see if I can find it. That wasn't  
5 passed on to me so I'm not familiar with it.

6 MALE PARTICIPANT: Yes, we're catching up  
7 ourselves from our change over.

8 STEVE LAVIE: Okay. Well, I'll get back  
9 to you as soon as I find something.

10 MALE PARTICIPANT: okay.

11 STEVE LAVIE: Okay. Thank you.

12 MALE PARTICIPANT: Yes.

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: Hello.

5 I have a gentleman from Palo Verde Nuclear Generating  
6 Station who wants to speak to you about some information  
7 he just sent.

8 TIM HARRIS: Sure. Okay. Thanks. Is this  
9 James?

10 JAMES: Yes, this is James (indiscernible,  
11 possibly \*) Palo Verde Nuclear Generating Station.

12 TIM HARRIS: Yes. Thanks James for sending  
13 the info.

14 JAMES: Okay. I just double checked to see  
15 that I sent a copy of today's data and then also a summary  
16 of all the previous data that we've done since we started  
17 sampling on the 12th.

18 TIM HARRIS: You know, I was just starting  
19 to compile all this stuff so that's very helpful. So  
20 did you see anything out of the ordinary? It doesn't  
21 look like things changed that much.

22 JAMES: No. Actually, we saw them returning  
23 back to what we had previously seen on Sunday. Yesterday  
24 was a rain day and then we ended up seeing the activity  
25 drop off quite a bit to hide --

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1                   TIM HARRIS: Did you guys collect any water  
2 samples.

3                   JAMES: We're doing so. I don't have those  
4 available yet, just part of our normal radiological  
5 environmental monitoring program that the samples are  
6 being obtained and we should have those results later  
7 this week.

8                   TIM HARRIS: Okay. I'll put in the logs  
9 that you guys are doing that. We'd be interested in  
10 seeing what came out in the water. We're starting to  
11 get some other samples from other plants in rainwater.  
12 So it'd be interesting to compare the values.

13                   JAMES: Understood. And there's some  
14 additional information in the second message. In our  
15 weekly (indiscernible, possibly "affluent") samples  
16 we're seeing pretty much the same results in our weekly  
17 (indiscernible, possibly "affluent") samples as we're  
18 seeing in our sample that's taken external to the plant.  
19 They're very similar values. We're looking basically

20 --

21                   TIM HARRIS: But those are all airborne?

22                   JAMES: Yes, that's correct, all airborne.

23                   TIM HARRIS: Okay. Yes because the previous  
24 samples were on the Ox Building roof, right?

25                   JAMES: Correct. Yes, all of them have been

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1 on the Ox Building roof. There's a paragraph in the  
2 second attachment that gives you the results that we  
3 have from Units 1, 2, and 3 field building (indiscernible,  
4 possibly "affluent"). They're all samples from our field  
5 building (indiscernible, possibly "affluent") monitors.

6 TIM HARRIS: Okay. This is really helpful.  
7 I appreciate you pulling this together, James.

8 JAMES: Excellent, no problem. And we'll  
9 continue to do that as long as we're in this event.

10 TIM HARRIS: Yes. Hopefully that'll end  
11 soon, but I can't see the light yet.

12 JAMES: Understood and we'll be looking for  
13 that, too. But, I listed my email address and phone  
14 number on there and if you have any additional questions,  
15 please feel free to contact me.

16 TIM HARRIS: Okay. Thanks, James.

17 JAMES: You're welcome. You have a good  
18 evening.

19 TIM HARRIS: You too, sir. Bye.  
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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Mike McFlannery (phonetic) from San Onfre.

6 TIM HARRIS: Okay, great.

7 HEADQUARTERS OPERATIONS OFFICER: Hold sir.

8 TIM HARRIS: Hey, Mike. How are you?

9 MIKE MCFLANNERY: Good. Who am I talking  
10 to?

11 TIM HARRIS: Tim Harris with the PMT.

12 MIKE MCFLANNERY: Tim Harris?

13 TIM HARRIS: Yes, Tim Harris.

14 MIKE MCFLANNERY: Okay, Tim. Hey, I was  
15 just calling. We've been, you know, since last Friday  
16 doing the voluntary calls.

17 TIM HARRIS: And thank you for that.

18 MIKE MCFLANNERY: It's no problem. So here  
19 are our numbers that we measured today.

20 TIM HARRIS: Okay.

21 MIKE MCFLANNERY: For iodine 131, we are  
22 measuring from 7.0 to 8.0 E<sup>-13</sup> microcuries per cc.

23 TIM HARRIS: Okay.

24 MIKE MCFLANNERY: And then we've been taking  
25 samples at three different plant areas, and for Cesium

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1 137 we only one result that was above our minimum detectable  
2 activity.

3 TIM HARRIS: Okay.

4 MIKE MCFLANNERY: And that number was 1.2  
5 E<sup>-13</sup> microcuries per cc.

6 TIM HARRIS: Had you previously reported  
7 Cesium 134 or is that another plant?

8 MIKE MCFLANNERY: We reported it yesterday.

9 TIM HARRIS: Okay.

10 MIKE MCFLANNERY: I thought the Diablo was  
11 reporting that also.

12 TIM HARRIS: Yes, I don't know. I was here  
13 on Sunday so I tested my metric. But no the Cesium 137,  
14 not 134.

15 MIKE MCFLANNERY: Cesium 137.

16 TIM HARRIS: Okay.

17 MIKE MCFLANNERY: Correct. Yes so I believe  
18 yesterday was the first time we reported any measurable  
19 Cesium.

20 TIM HARRIS: Okay. So maybe it was Palo  
21 Verde I think that reported Cesium 134, which was kind  
22 of, I don't know.

23 MIKE MCFLANNERY: Okay.

24 TIM HARRIS: Okay. Well thanks for the call  
25 Mike, and I guess somebody will talk to you tomorrow

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night.

MIKE MCFLANNERY: Yes. Okay, Tim. Have a  
good night.

TIM HARRIS: You, too. Thanks.

MIKE MCFLANNERY: Bye.

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(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Thank you for calling the National Response Center. If this is regarding an actual or potential release of hazardous material, an oil spill, maritime security, or railroad incident please stay on the line and the next available watch (indiscernible, possibly \*) will be with you momentarily.

If this involves a medical emergency or life threatening situation, please call 911 before making this notification. You may also make a report over the Internet at [www.NRC.uscg.mil](http://www.NRC.uscg.mil), click on Services, then on Web Reports. For quality assurance, your call may be recorded.

MR. DUBBS (phonetic): Thank you for calling the National Response. This is Petty Officer Dubbs. Can I help you?

TIM HARRIS: Hey Petty Officer Dubbs, this is Tim Harris over at the NRC Op Center in the Protective Measures Team.

MR. DUBBS: Okay.

TIM HARRIS: We've been getting some calls about I guess radiation levels contaminated materials that are coming in from flights or other things that are really like the jurisdiction of EPA.

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1 MR. DUBBS: Okay.

2 TIM HARRIS: So we were going to refer them  
3 to you guys. I just wanted to call and give you a heads  
4 up that you might be seeing more of these.

5 MR. DUBBS: You're going to be letting the  
6 individuals basically know that contact the NRC --

7 TIM HARRIS: The NRC.

8 MR. DUBBS: -- National Response Center?

9 TIM HARRIS: Yes.

10 MR. DUBBS: Okay.

11 TIM HARRIS: Yes, rather than the Nuclear  
12 Regulatory Commission, right?

13 MR. DUBBS: All right. And that's to notify  
14 the EPA?

15 TIM HARRIS: Yes. EPA I believe has  
16 jurisdiction for (indiscernible, possibly "Oconis")  
17 radiation concerns.

18 MR. DUBBS: All right. Let me just take  
19 a look at some stuff that we got because I know we've  
20 not given them your phone number.

21 TIM HARRIS: Okay. 

22  (b)(5)

23  
24 MR. DUBBS: Sure. I mean if it's EPA, you  
25 know, if it's a notification it has to go to the EPA

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1 by all means. I mean, we'll take the report, so it  
2 absolutely can be done. I just wanted to check our log  
3 to see if we have any --

4 TIM HARRIS: Well, what about things that  
5 are coming through that are customs and border protection,  
6 do you guys also go through the National Response Center?

7 MR. DUBBS: The NRC is basically established  
8 as a reporting center for the EPA. So we do take reports  
9 of oil spill hazards, material spills, and incidents.  
10 So I mean, if there was something that was worked out  
11 between EPA and NRC, Nuclear Regulatory Commission, then  
12 that is what it is. I mean, we'll take the report.

13 TIM HARRIS: (b)(5)

14 (b)(5)

15 MR. DUBBS: Understood, understood.

16 TIM HARRIS: Yes, yes. So, I mean, we're  
17 just trying to, you know, drive within our lanes and  
18 make sure that we're referring inquiries to the right  
19 people.

20 MR. DUBBS: Yes, we don't do any of the,  
21 we only take reports of actual incidents. So basically  
22 what we do is we'll pull the information from whatever  
23 the incident was.

24 TIM HARRIS: Right.

25 MR. DUBBS: You know, where it came from,

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1 where the incident occurred, things like that so the  
2 EPA can investigate that.

3 TIM HARRIS: Okay.

4 MR. DUBBS: So if it was just inquiries on  
5 certain things, certain levels, you know, if CDP is trying  
6 to get a hold of the EPA directly then the NRC won't  
7 be the right agency for that.

8 TIM HARRIS: Got you.

9 MR. DUBBS: They would need to contact the  
10 EPA directly.

11 TIM HARRIS: Which I thought was this number.  
12 Is there another --

13 MR. DUBBS: Well for whatever region the  
14 incident occurs in, they can contact the EPA for that  
15 region.

16 TIM HARRIS: Okay. And does each region  
17 have a 24/7 line or --

18 MR. DUBBS: Not all of them. They are set  
19 up differently for the regions. Some of their phone  
20 numbers get forwarded back to us if there is a, you know,  
21 so if there was an actual incident --

22 TIM HARRIS: I got you, I got you.

23 MR. DUBBS: -- they would go to us and things  
24 like that. But for specific inquiries, I mean it would  
25 have to go to the EPA since the NRC is basically just,

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1 the National Response Center is basically just a call  
2 center.

3 TIM HARRIS: Yes, you're like a clearing  
4 house.

5 MR. DUBBS: Yes, we're just the initial  
6 reporting agency. So we take an initial report, we gather  
7 information, and then we send it out to a bunch of different  
8 agencies.

9 TIM HARRIS: Right.

10 MR. DUBBS: The verbal ones and the on scene  
11 coordinators is the federal on scene coordinators, one  
12 of them are the EPAs. So all of our reports are being  
13 sent to a federal on scene coordinator, and that's where  
14 the EPA comes in --

15 TIM HARRIS: Okay.

16 MR. DUBBS: -- for us. So if it's an actual  
17 incident, if there was something going on and there was  
18 the ability to provide the necessary information for  
19 our reports, then we could take a report and send it  
20 to the EPA forward and just, you know, inquiries and  
21 things like that then they would have to go to the EPA.

22 TIM HARRIS: Yes. I'm looking at one report  
23 that there was aircraft passenger baggage cargo that  
24 tripped a radiological monitor. Now does that go through  
25 you guys or is that reported through the EPA region?

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1 MR. DUBBS: If there was an actual release  
2 of a radioactive --

3 TIM HARRIS: Yes, maybe a radioactive item  
4 incoming to the country.

5 MR. DUBBS: Right. We can take the report  
6 for that.

7 TIM HARRIS: Okay. Perfect. Okay.

8 MR. DUBBS: Okay.

9 TIM HARRIS: We've been getting a number  
10 of these that we think are probably more appropriate  
11 to forward to you guys. So just heads up that you may  
12 be seeing a little bit more of these as the Japan events  
13 unfold.

14 MR. DUBBS: Sure, understood. And it may  
15 be better off to, you know, if it's going to be something  
16 serious, it may be better off to call back during business  
17 hours or I can give you a direct line for my Chief.

18 TIM HARRIS: Yes, I get off at 11:00 so okay.

19 MR. DUBBS: Sure. Yes, I'm the evening guy  
20 as well. But we can, you know, somebody can hash it  
21 out with him so we can get a more specific strategy going  
22 or something like that.

23 TIM HARRIS: Okay.

24 MR. DUBBS: I don't want to be the guy that  
25 makes the call and say don't send them to us.

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1 TIM HARRIS: Yes. What was your name, Chief  
2 what?

3 MR. DUBBS: His last name is Mattice.

4 TIM HARRIS: Okay.

5 MR. DUBBS: It's M-A-T-T-I-C-E.

6 TIM HARRIS: Okay.

7 MR. DUBBS: I'll give you his direct phone  
8 number.

9 TIM HARRIS: Sure.

10 MR. DUBBS: It's 202-372-2431.

11 TIM HARRIS: Okay.

12 MR. DUBBS: And he's always on during normal  
13 business hours, 7:00 to 5:00 or so.

14 TIMHARRIS: Okay. Allright. I'll forward  
15 this up the chain, too.

16 MR. DUBBS: Okay.

17 TIM HARRIS: Maybe somebody will contact  
18 him tomorrow.

19 MR. DUBBS: Sure, excellent. But like I  
20 said so if there's an actual incident, we can absolutely  
21 take a report for radioactive material that came in.

22 TIM HARRIS: Okay, understand.

23 MR. DUBBS: All right.

24 TIM HARRIS: Thanks, sir.

25 MR. DUBBS: You're welcome. Take care.

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TIM HARRIS: Bye.

MR. DUBBS: Bye bye.

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1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Mr. Foster on the line for you sir.

6 TIM HARRIS: Okay. Thanks.

7 STEVE LAVIE : Hey Jack, can you hear me?

8 JACK FOSTER: I can hear you. Just a quick  
9 review. We have representatives from Naval Reactors,  
10 DOE, the State Department, Embassy, and Dan Dorman, and  
11 myself, Jack Foster, here.

12 The subject is basically to review the Naval  
13 Reactors issue associated with expanded protective  
14 actions at military sites. So Dan did you want to start  
15 up or --

16 DAN DORMAN: Well, let me just say I think  
17 there's two things that I'd like to accomplish in this.

18 One is to make sure we're aligned or if we're not aligned  
19 to identify that on the data that came through when we  
20 had the southbound plume over the last couple of days.

21 I mean, I think it is a difference of views  
22 between the agencies on what the appropriate actions  
23 in response to that kind of percolated up to a very high  
24 level kind of fast.

25 So I think the first thing is to go through

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1 what's developed over the last 24 hours in terms of  
2 assessment of that data and where the different agencies  
3 stand on what the appropriate response to that is.

4 And then the second thing would be to get  
5 past that immediate issue and say okay well the wind's  
6 going to keep shifting around here on us.

7 And while we are encouraged by the enhanced  
8 communications and coordinations that we're getting  
9 within our own government and with the Japanese government  
10 and what we're seeing among the Japanese government,  
11 we're still probably not within days of seeing the slow  
12 leaks out of Fukushima going away.

13 So the winds will continue to shift around  
14 and these issues are going to continue to arise. And  
15 so what I'd like to get out of this is some agreement  
16 on how we're going to come together at the working level  
17 to address those issues, and if we need to escalate them  
18 appropriately within our organizations, then we can do  
19 that. But let's try and solve things at the lowest level  
20 possible.

21 MALE PARTICIPANT: I want to go see if I  
22 can't get my NIT in on this because we were talking.  
23 They're working to set the priorities and they can call  
24 into the PMT.

25 MALE PARTICIPANT: Do they know the number?

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1 MALE PARTICIPANT: The 5100?

2 MALE PARTICIPANT: 5100 and just ask for  
3 PMT.

4 MALE PARTICIPANT: I'll just call the NIT.  
5 (Crosstalk)

6 MALE PARTICIPANT: I also need to know who  
7 on this call is from outside the NRC and DC. Is there  
8 anybody else on this call from Naval Reactors or DOE?

9 MALE PARTICIPANT: I don't think there's  
10 anyone else on DOE. But like I said, we're just going  
11 to try to get the NIT up on this one.

12 MALE PARTICIPANT: Okay. PMT, they should  
13 have saw that one coming.

14 JACK FOSTER: PMT, did you hear that question  
15 from Naval Reactors? We would like to know if there's  
16 any other entities on the bridge line besides PMT and  
17 the PMT Japan Team?

18 STEVE LAVIE: As far as I know, it's just  
19 us here at the PMT on the speaker phone.

20 JACK FOSTER: Okay. Please be aware that  
21 the NIT and DOE is likely to be logging on within the  
22 next few minutes, okay?

23 STEVE LAVIE: Actually, David Hermann with  
24 DOE Naval Reactors just walked up.

25 JACK FOSTER: Okay.

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1 MALE PARTICIPANT: He's one of your guys?

2 MALE PARTICIPANT: He's one of my guys, yes.

3 MALE PARTICIPANT: Okay.

4 (Crosstalk)

5 MALE PARTICIPANT: Thank you for that. That  
6 was good.

7 (Crosstalk)

8 JACK FOSTER: Hey PMT, if it's possible could  
9 we go around? Could you guys go around and let us know  
10 who is on the Headquarters PMT side?

11 TIM HARRIS: Sure. It's Tim Harris, Don  
12 Cool, and Steve Lavie.

13 JACK FOSTER: Okay. Thank you very much.  
14 If you'd like, we have a little bit of down time while  
15 we're waiting for the NIT, we can go around the room  
16 here and introduce ourselves too. So starting with you  
17 first, please.

18 BRUCE HOWARD (phonetic): Bruce Howard, the  
19 State Department. I'm a Science Counselor at the US  
20 Embassy in Tokyo.

21 TOM RODEN (phonetic): Tom Roden. I'm with  
22 JKF 519 and (indiscernible, possibly \*) out here and  
23 I'm his Special Assistant for nuclear power.

24 ALAN REMICK: I'm Alan Remick, DOE Office  
25 of Emergency Response.

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1 CRAIG JOHNSTONE (phonetic): Craig  
2 Johnstone, Department of State, Liaison II, DOE.

3 STAN NORMAN (phonetic): Stan Norman, NRC.

4 TROYMUELLER: TroyMueller, Naval Reactors.

5 JACK FOSTER: Jack Foster, NRC.

6 KEVIN KELSO (phonetic): Kevin Kelso, Naval  
7 Reactors.

8 JACK FOSTER: And that's it for the team  
9 here. Now there's also Ron Sherry (phonetic) from DOE  
10 and he went to connect with the NIT to have them connect  
11 with the bridge.

12 (Crosstalk)

13 MALE PARTICIPANT: We've got two pieces and  
14 since the NIT's not on here, I mean, I think we can start  
15 working the reactor side of the house. And although  
16 that's what I'm here for, when the NIT comes on we can  
17 start working, you know, our side of the house and save  
18 some time that way.

19 MALE PARTICIPANT: Let me tee up what I think  
20 I know. I think Naval Reactors raised some data that  
21 they had from the (indiscernible, possibly \*) and also  
22 from North of here up towards the plant. I'm losing  
23 track of the days, that they gave us a day or so ago.

24 MALE PARTICIPANT: Monday.

25 MALE PARTICIPANT: Okay, two days ago. And

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1 raised some concerns about, I think we got sidetracked  
2 a little bit on one data point (indiscernible, possibly  
3 \*), but notwithstanding that raised some concerns that  
4 what on the face were some relatively low dose rates.

5 But then looking at the accumulative impacts  
6 of exposure to those materials to particularly  
7 non-occupational folks at the naval facilities. And  
8 the issue, as I said earlier, got us to a fairly high  
9 level and found that there was some misalignment between  
10 the agencies on what the appropriate response to that  
11 was.

12 And my understanding, and I'll let the Navy  
13 speak for themselves, but I think what I was hearing  
14 from Naval Reactors and from Admiral Donald was there's  
15 no point in leaving these people just hanging in there.

16 And oh by the way, I think Admiral Donald  
17 expresses very well is I've got my ELTs out taking these  
18 samples every 15 minutes and they're going to go home  
19 and talk to their dependents and the word's going to  
20 get around the base and everybody knows that the plume's  
21 coming down this way. And we need to communicate to  
22 people and I understand that sentiment.

23 And there was even a comment to the effect  
24 that I think about a week ago when the wind swung around  
25 the compass for a period that there was a communication

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1 that went out of the base that said something to the  
2 effect of this is not a significant health hazard but,  
3 you know, if you don't have to be outdoors don't.

4 The response that I think came from our  
5 Chairman in that conversation, and I think we've further  
6 developed, was we focus on protective action guidelines.

7 We focus on, you know, these have been  
8 developed over a long period of time between NRC and  
9 EPA. And they look at also accumulation of doses over  
10 a period of time. They look at not just current conditions  
11 of what we recently projected to occur.

12 And I think our staff had gone back, and  
13 I'll let the PMT speak to this, but I think we've gone  
14 back and from that conversation and took that information  
15 of the sample data that Naval Reactors had provided and  
16 conferred with the EPA.

17 And EPA also expressed a concern that if  
18 we go out with too strong of a message here at the same  
19 time that we're telling the West Coast of the United  
20 States that yes, we're detecting stuff on the West Coast  
21 of the United States, but it's not a cause for concern  
22 or for any kind of protective actions that that's a very  
23 mixed message.

24 And that as word filters out that, you know,  
25 for very low levels of detected activity, we're doing

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1 one thing for naval forces in Japan but we're telling  
2 the West Coast that it's okay (indiscernible, possibly  
3 \*).

4 MALE PARTICIPANT: The west coast --

5 MALE PARTICIPANT: Yes, the West Coast may  
6 respond in a way that may have social and economic  
7 implications. And recognizing that the West Coast of  
8 the United States is not seeing what we're seeing in  
9 Yokosuka. I mean, that's --

10 MALE PARTICIPANT: Right, I mean, there's  
11 a one over R squared issue here.

12 MALE PARTICIPANT: Yes. But those are some  
13 of the kind of issues that have percolated up. And I  
14 guess before I'd open it up in the room here, Don or  
15 any of your folks, would you add anything or  
16 re-characterize anything that I've said?

17 DON COOL: I think you've characterized that  
18 pretty accurately. A lot of that discussion I believe  
19 was around that iodine sample, which we believe was  
20 anomalous.

21 But you're right that the underlying  
22 communication issue ought to be sorted out and there  
23 was considerable concern from the folks in the EPA who  
24 have the responsibility for the Protective Action  
25 Guidelines to starting to take actions that very small

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1 fractions of the Protective Action Guidelines.

2 TROY MUELLER: All right. Can I speak?

3 JACK FOSTER: Yes, please.

4 TROY MUELLER: This is Troy Mueller. I  
5 arrived here in Japan Monday afternoon, and I went down  
6 to Yokosuka and went into their ECC. We experienced  
7 a plume for two days and it was a total period of 17  
8 hours from Tuesday through Wednesday of last week. And  
9 we had hundreds of samples that characterized the plume  
10 that went over us and the deposition that remained.

11 The refined dose estimate to the public in  
12 Yokosuka and at Sugi (phonetic) during those 17 hours  
13 totaled 190 millirem thyroid dose and 10 millirem total  
14 effective dose.

15 And subsequent to the ending of the plume  
16 on Wednesday, the wind turned for several days just going  
17 out to sea. So it allowed us to kind of figure out when  
18 adverse winds come our way again, what are we going to  
19 do for the public.

20 We worked several days on what do we do for  
21 KI and start working up the chain of command. Do we  
22 pre-distribute or whatever. What we were thinking, you  
23 know, my work with state radiation health officials where  
24 the Navy operates in the states is most states use a  
25 10 percent criterion of 500 millirem.

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1           If you're starting to postulate a dose of  
2   500 millirem to the thyroid, you ought to start thinking  
3   about what are you going to do from a KI standpoint.  
4   And there's several reasons why you do it that way.

5           The first is, your sampling of a plume isn't  
6   necessarily in the center line and so you got to allow  
7   for error in where you're sampling and that you don't  
8   miss the real heavy piece to that.

9           And then secondly, you don't understand  
10   duration yet. And you don't want to rely on hope that  
11   you save the day and then find yourself too late in the  
12   problem to be able to effectively go issue potassium  
13   iodide to the population that you're concerned about.

14          And so we had in mind this 500 number going into this  
15   thing. So when the --

16           MALE PARTICIPANT:    Is there a rate  
17   associated with that 500 number? I mean, you can  
18   accumulate 100 --

19           MALE PARTICIPANT: Yes, I'll answer that.

20           MALE PARTICIPANT: Okay.

21           MALE PARTICIPANT: So coming on Saturday  
22   when the wind pattern started to become known for Monday,  
23   it turned out that we were going to get hit by a 36-hour  
24   plume. Okay?

25          And then secondly, I didn't know if things

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1 were degrading or not because no one had sampled the  
2 plume since Wednesday. I just didn't have a feel for  
3 what dose rates were in the plume and whether the same  
4 were getting worst or better.

5           Knowing the wind pattern, we sent, and I  
6 didn't have a lot of resources and we only could afford  
7 one team and place them between the reactor site and  
8 Yokosuka, and that was our early warning sampling.

9           And then secondly, we have access to the  
10 Japanese Website and radiation level readings at the  
11 reactor sites between this reactor site and Yokosuka  
12 And when the wind turned our direction, we did see the  
13 reactor site radiation levels going up. So we knew the  
14 plume was heading in our direction.

15           And then our sampling team that was out there,  
16 first of all we could see the plume in Yokosuka just  
17 from shine from the clouds before we could detect it  
18 for a particulate air sample. But the forward team then  
19 got some readings and particulate samples in the  $10^{-8}$   
20 microcuries per millileter range and during that is when  
21 the anomalous sample occurred.

22           MALE PARTICIPANT: Right.

23           MALE PARTICIPANT: And, you know,  
24 (indiscernible, possibly "coms") just kind of didn't  
25 work out real well. We were told that they had taken

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1 another sample and re-sampled, and it was confirmed.  
2 Turned out that wasn't true.

3 And it also turned out they just, when you're  
4 standing in the plume you got to be extremely careful  
5 to keep your instruments clean and your sample clean.

6 And I think what happened is something fell on it or  
7 they got contamination on their probe and that's what  
8 we measured.

9 When I started to figure out we were just  
10 relying on one sample which was an hour and a half later  
11 okay, I called back to that van and I said clean everything  
12 off and I want you to recount the sample and it was background  
13 after they cleaned everything. So that's happened with  
14 the anomalous sample.

15 But, so doing a 36-hour plume calculation,  
16 and already having an accumulated dose of 190 millirem  
17 on base, we were calculating in the 700 millirem range  
18 committed dose to the thyroid at the base. And that  
19 exceeded the 500 number.

20 And so I knew, you know, all the work that  
21 we had done to try to work on getting everybody's agreement  
22 to this KI thing wasn't fast enough to take care of the  
23 public that we were responsible for on the base.

24 MALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: And that caused the

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1 prompt critical issue. You know, and I apologize for  
2 that one air sample. But it did highlight that there's  
3 a cumulative dose that's going on to the public out there,  
4 and that we still need to think about cumulative dose  
5 and not just a one plume dose at a time. You can't be  
6 thinking that way, you've got to be thinking cumulative  
7 dose.

8           And so it highlighted that issue and that  
9 was the issue that was subsequently discussed in the  
10 situation room line and that the policymakers started  
11 to understand, albeit not the way I wish it would happen,  
12 but that's how it did happen. And I'm very happy that  
13 this happened because we're now thinking a little more  
14 clearly.

15           So one tool that we developed and that I'm  
16 not sure everybody is aware of is, we had a plume hit  
17 the USS Ronald Reagan on Sunday right after the earthquake,  
18 and we had multiple readings. We have automatic air  
19 particle detectors in all of our plants and we were taking  
20 portable air samples trying to make sure we didn't hit  
21 it.

22           And we gave them a 100 mile radius not to  
23 go inside. And so I thought, all I did is give them  
24 that distance was multiple the food ingestion zone of  
25 50 miles, multiple it by 2 and I thought that that would

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1 be protected. Well outside of that, they ran into it.

2 So we had a lot of data from that run in with the plume.

3 So we made our own plume characteristics  
4 plot, and we had gamma readings and we had particulate  
5 readings, but radio iodine was below detectable on our  
6 silver gel samples.

7 But from that we could run models to calculate  
8 a plume characteristic going out to 250 miles and that  
9 way when we ran into it again I could just do ratios  
10 from our plume model at certain distances and I could  
11 figure out dose rates, you know, gamma, thyroid, and  
12 lung dose.

13 So we developed that model on Monday when  
14 I got there. And then on Tuesday and Wednesday with  
15 the next plume, we got even better data and it in fact  
16 matched what I expected from when our run in when the  
17 Reagan ran into it. The numbers corresponded very  
18 closely.

19 So what we've tried to share with this whole  
20 group is I'm calling it the Plume Predictive Model, which  
21 is what we think at least the current release is putting  
22 out because we keep running into it so that all of can  
23 look at this model and see this is what you should expect  
24 for the readings that you're getting. And then you can  
25 just multiple time by the number and figure out total

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1 dose for the plume that you're in.

2 And I would like to get DOE and NRC concurrence  
3 with that model so that we can start using it as a model  
4 that we can brief our superiors on. And I believe that  
5 was shared within the last four hours or so with all  
6 agencies.

7 MALE PARTICIPANT: Okay. Don, do you guys  
8 have that?

9 DON COOL: Yes Don, we do. We've looked  
10 at it. Steve Lavie looked at it and then had a call  
11 with --

12 STEVE LAVIE: That was a different set of  
13 (indiscernible, possibly "calcs").

14 DON COOL: -- a different set of  
15 (indiscernible, possibly "calcs").

16 STEVE LAVIE: We just got this about 20  
17 minutes ago. We talked about the nomographs and the  
18 graph package, correct?

19 DON: No. It's a table label and it's for  
20 every (indiscernible, possible "pasquale") category and  
21 it's titled plume predictive model based on multiple  
22 sources of Navy measurements and thumb rules.

23 JACK FOSTER: It was sent to you guys 8:37  
24 JST.

25 STEVE LAVIE: We did look at that. We had

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1 a discussion with Naval Reactors at area code (b)(6)  
2 discussing it. What we concluded after looking at it,  
3 what I told the gentleman at Naval Reactors is that,  
4 you know, given the nature of the analysis, it's not  
5 something that's out to pretty significant digits.

6 But overall, I could not see a major hole  
7 in the method. We did toss out an issue regarding the  
8 choice of dispersion co-efficiency. I was told that  
9 they were for over land, but that was someone was going  
10 to reconsider them when they did another calculation  
11 later.

12 Some of the numbers at one and five miles  
13 seem awfully elevated. But based on what we could see,  
14 there's no smoking gun that said this can't be used.

15 MALE PARTICIPANT: And frankly I'm not, I  
16 don't really care about inside 30 miles. I was just  
17 doing this for the US public use.

18 MALE PARTICIPANT: Yes. And you're doing  
19 it based on 100 something miles. And so if there's a  
20 little variation at the one to three mile based on your  
21 R squared, we're okay with that.

22 MALE PARTICIPANT: Well got that 50 mile  
23 (indiscernible, possibly "adhesion") zone.

24 STEVE LAVIE: That's good.

25 MALE PARTICIPANT: The ambassador is --

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1 (Crosstalk)

2 MALE PARTICIPANT: Well, I want to talk about  
3 that.

4 MALE PARTICIPANT: Right, okay.

5 MALE PARTICIPANT: Yes, and I can talk a  
6 little bit about that too because I heard that Admiral  
7 Willis (phonetic) talked about it yesterday.

8 (Crosstalk)

9 MALE PARTICIPANT: So that's how we got to  
10 where we are.

11 MALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: And what I'm trying to  
13 work on is harmonization of NRC, Navy, and DOE. One  
14 on the plume line and then the next round needs to be  
15 on a ground deposition.

16 And we put together a different model for  
17 that because I was asked to put together a model for  
18 the troops that are flying in and going in to these areas.

19 And we had to give them a tool and that is the nomograph  
20 one. Whoever mentioned nomograph, that's the one that  
21 we put together for the troops.

22 STEVE LAVIE: Right.

23 MALE PARTICIPANT: And I would like a peer  
24 review of that document. We had to put it out for the  
25 troops because we didn't have any time.

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1 ALAN REMICK: [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 (b)(5)

5 [REDACTED]

6 [REDACTED]

7 So even within (indiscernible, possibly \*)

8 we're having trouble getting, you know, priorities to

9 do what we think is necessary to be done. So if the

10 NRC and Naval Reactors, and we come to the same consensus,

11 I'm probably not the one that can get that consensus

12 by the way, but she'll be a little bit later today, then

13 we can, well very much later today, we can push that

14 up and get some priority to do this, the deposition you're

15 talking about.

16 I think that's a reasonable path forward.

17 I think it's a great path forward. You know, one of

18 the assumptions that we do need to validate is that there

19 is a continuous release and you've got some pretty good

20 data on that. But, you know, there could be a couple

21 of other scenarios that you think you've got pretty good

22 confirmation that it's a continuous release?

23 MALE PARTICIPANT: Yes.

24 ALAN REMICK: I'm assuming that until I have

25 information that tells me otherwise.

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1 MALE PARTICIPANT: And that's definitely  
2 a more conservative assumption, right? So I'm happy,  
3 but again I need the horsepower in the interagency to  
4 help, you know, push that through.

5 ALAN REMICK: I believe you have all the  
6 horsepower you need. I do. Well, you're talking about  
7 the NARAC calculation?

8 MALE PARTICIPANT: Yes, to set the  
9 priorities for them and that's, you know, what we're  
10 going with. That's a model that we're working at.

11 MALE PARTICIPANT: And the part where I have  
12 a problem with that, Alan, is I don't think it's a NARAC  
13 calculation, what we're talking about. That will be  
14 a very good model that will tell us what happened after  
15 the fact. But we need a predictive model.

16 ALAN REMICK: I know. I'm with you on the  
17 predictive model and I was understanding what you were  
18 saying. You know, statistically we can do it and come  
19 out with that predictive deposition and dose to the people  
20 on the ground. We can do both of those things assuming  
21 that we've got the ongoing release, and I'm happy to  
22 try to coordinate that.

23 But like I said, I'm limited to what I can  
24 do here because I have one voice putting that input.  
25 So if the NRC is happy that we've got a continuous release

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1 going and they're happy with this concept of, you know

2 --

3 MALE PARTICIPANT: I'm happy that we've got  
4 a continuous release going.

5 ALAN REMICK: You are happy that we've got  
6 a --

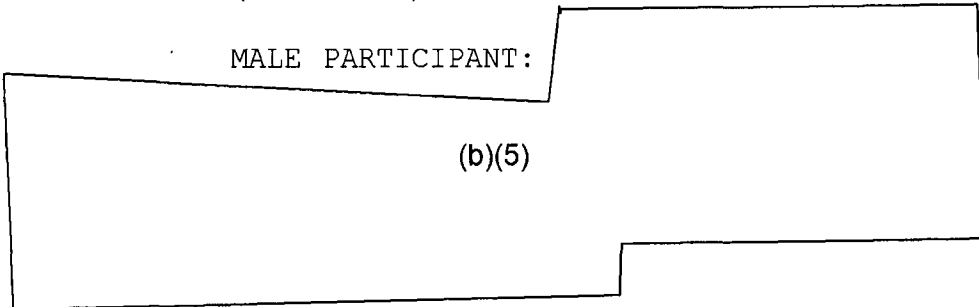
7 MALE PARTICIPANT: No.

8 MALE PARTICIPANT: No.

9 MALE PARTICIPANT: I believe we have one.  
10 I'm not --

11 (Crosstalk)

12 MALE PARTICIPANT:



13 (b)(5)

14  
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16 AUTOMATED MESSAGE: Transferring. This  
17 call may be recorded.

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(CONFERENCE CALL INITIATED)

OPERATOR: Nuclear Regulatory Commission,  
this is a recorded line, may I help you?

MALE PARTICIPANT: Yes, this the PMT for  
that bridge line?

OPERATOR: Okay, transferring you.

MALE PARTICIPANT: Okay, thanks.

AUTOMATED MESSAGE: And this call maybe  
recorded. If you need the assistance of an operations  
officer press star 0. Transferring to the NRC conference.

TROY: I ran all stability classes.

DAN: Right.

TROY: And they're all fairly common.

DAN: Okay, so what about direction? I mean  
we're sending so many hours, I mean that fast, the original,  
the yes, the modeling and the change, how does that --

TROY: So what we did, literally how we're  
tackling dose in the Yokosuka is is the Japanese have  
these monitoring stations for us and it looks at the  
plume, it's gamma from the plume. And what we're doing  
is is we're integrating the area under the curve --

JACK: Aw.

TROY: -- and calculating dose from the area  
under the curve. Now when we're in the middle of it

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1 fighting the war, we'll take the highest number and then  
2 figure out, because we don't know how long it's going  
3 to last.

4 We just take the highest number and then  
5 calculate how many hours we're going to be in it and  
6 then I have to give a dose estimate to somebody to say  
7 what are we going to do to protect people. But after  
8 the fact then we can go back and calculate the area under  
9 the curve.

10 DAN: Actually versus, when you want to run  
11 data till you're done. As accumulated --

12 TROY: Yes, I have not had time to see what  
13 was, we had a plume all day yesterday and it's in 10  
14 to the minus,  $2 \times 10^{-9}$  microcuries per millimeter range  
15 all day. So I don't know how that's added up.

16 JACK: Just general airborne contamination?

17 TROY: Yes, sir.

18 ALLEN: So the way they put it to me was,  
19 we had the equivalent of about one tenth of a DAC here.

20 And that's something that I guess a lot of people  
21 understand. And so at that level, you know, we get 500  
22 mR Thyroid at, you know, for the working year. Is the  
23 way that they put it?

24 DAN: Correct.

25 TROY: Well --

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1 ALLEN: So if we're standing outside  
2 breathing this for a whole year --

3 JACK: 40 hours a week --

4 ALLEN: -- 40 hours a week, yes. So we're  
5 getting 500 mR. So the data that we've got so far isn't  
6 backing that up.

7 So what I do want to do is go back and get  
8 the guys to do the accumulative dose and I'll ask the,  
9 at the Embassy, which is something that we haven't done  
10 yet because we're seeing, again, levels around that range  
11 and we've not seen the significant increase.

12 However, when we did first get here at Yokota,  
13 we did see the higher levels but we've never gotten back  
14 to that level. Or at least that's the understanding,  
15 we'll have to look at the data to make sure. So I --

16 TROY: But the problem, there's two problems.  
17 There's also a 100 millirem public dose. And so, and  
18 then so that 10 millirem that occurred on the 17, the  
19 first 17 hour plume, yes, I'm also messing with trying  
20 to protect the 100 millirem number as well and not  
21 necessarily just use the emergency numbers.

22 If I can get the people out of there and  
23 still meet the general public numbers, that's a good  
24 thing. Um --

25 JACK: From a health standpoint but not so

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1 much for the rest of Japan because --

2 TROY: Right.

3 JACK: -- for the government to coordinate,  
4 oh my god these people are leaving, why aren't we. That's  
5 part of our problem.

6 ALLEN: [REDACTED]  
7 [REDACTED]  
8 (b)(5)  
9 [REDACTED]  
10 [REDACTED]

11 [REDACTED]  
12 [REDACTED]  
13 (b)(5)  
14 [REDACTED]  
15 [REDACTED]

16 So I mean I know where you guys are coming  
17 from, but maybe I've got a little bit different perspective  
18 on it.

19 TROY: [REDACTED]  
20 [REDACTED]  
21 (b)(5)  
22 [REDACTED]

23 ALLEN: [REDACTED]  
24 [REDACTED]  
25 (b)(5)

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(b)(5)

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TROY: But they have now spent \$5 billion for that accident, okay.

ALLEN: Yes, I understand that.

TROY: Understand that there's only nine of them in the world, okay.

ALLEN: I do understand that. But again, you know, we're talking about extremely low levels of contamination and --

TROY: But that level of contamination hinders our operation because we don't let any radioactivity out of our system.

ALLEN: I know.

TROY: And if you spread it all over inside, I can't operate how we normally operate.

JACK: Yes, yes.

DAN: It seems reasonable. I mean

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1 protection of the asset is a good credit. I think that's  
2 one of the phrases we can crunch on because --

3 JACK: I understand that we have the PMT  
4 back online, is that correct?

5 TROY: There are many different variables  
6 then --

7 ALLEN: There are. And --

8 CAPTAIN COOPER: I'm back Jack.

9 JACK: Okay, thanks.

10 TROY: -- that go into that --

11 DAN:

12

13

14

(b)(5)

15

16

17

18

19 ALLEN: Yes, right.

20 JACK: Yes.

21 DAN:

22

(b)(5)

23

24 JACK: True. And we've already had an impact  
25 on that with the decision to go to the 50 mile evacuation.

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DAN: Right.

JACK: And that was a hard pill for the Japanese to swallow.

DAN: Well and I can tell you --

JACK:

(b)(5)

(b)(5)

(b)(5)

TROY:

(b)(5)

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1 JACK:

2  
3 (b)(5)  
4  
5

6 TROY: Our own country.

7 DAN: But I believe us as the technical  
8 experts working on this have to give our technical opinion,  
9 okay, unswayed by any political aspect. So that way  
10 the decision makers have the proper technical information  
11 to make those political decisions.

12 And I'll tell you, based on just listening  
13 to the facts regarding what the NRC's thoughts are going  
14 on in those things, I believe a more severe consequence  
15 is coming down the road that nobody's really prepared  
16 for. And it is our job to prepare the decision makers  
17 for that potential eventuality and to give them tools  
18 to help them see it as early as possible and take the  
19 proper actions.

20 JACK: I guess I would take that a slightly  
21 different direction. I would say that the action that  
22 we took on 50 miles was based on conditions that either  
23 had have already developed in the plant and we're already  
24 there.

25 TROY: Right.

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1 JACK: Or are not in imminent threat of  
2 happening if they have not already. So we're kind of  
3 already, we're already there or if something else  
4 significant has to happen to get it there.

5  
6  
7 (b)(5)  
8  
9  
10

11 I mean there's obviously a lot of bad stuff  
12 out there. And I would caveat that by, I know a lot  
13 of it is blown out to sea so we're not seeing it on the  
14 AMS data.

15 ALLEN: You know, and I liked to caveat the  
16 AMS data even because if you look at the limit it's,  
17 it's what, 1.19 mR per hour on the ground and that's  
18 what we've got calculated. It is not the lower, so you're  
19 not seeing the full extent of the deposition out there.

20 JACK: Okay.

21 ALLEN: You know, the green looks like  
22 everything is great, but --

23 JACK: The orange is the green.

24 ALLEN: It's not right.

25 JACK: I look at the orange and the green.

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1 ALLEN: Well but that's the problem, is that  
2 if you really go to --

3 TROY: It isn't green.

4 JACK: Then I guess they're looking at that.

5 ALLEN: Yes, but the decision maker is  
6 looking at that but if you go to the, and you look at  
7 the data, yes, there's contamination on the ground in  
8 the green areas, so you know, there is more extensive  
9 plume out there than what that data appears to be showing.

10 I know you got to read the sub-context  
11 unfortunately and with the decision to release that,  
12 and I don't know who made the decision to release the  
13 AMS data, I mean we've been given it to the Japanese,  
14 but you know, the public needs to understand what that  
15 really means.

16 And my concern of course is that someone  
17 is going to look at like the New York Times already is  
18 and said DOE doesn't see radiation outside of the 30  
19 mile or the 30 kilometer zone and that's just not true.

20 JACK: Yes.

21 DAN: Yes.

22 ALLEN: You know, yes, we are seeing  
23 radiation. And so, I mean that's my concern with the  
24 AMS data. It's not showing it in the way that you can  
25 make those kind of assumptions, so.

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1 JACK: Right.

2 TROY: And I have a --

3 ALLEN: For these reasons.

4 TROY: I have a survey team half way between  
5 here and the site. And yesterday, and they're still  
6 in the plume, and contamination levels rose to 40,000  
7 microcuries per probe where they're at.

8 Just, our dose calculations for staying in  
9 that for a day, and that accounts for a ten percent  
10 resuspension of, if I'm just doing my daily business  
11 kind of thing, comes up at 40 millirem a day.

12 JACK: Wow.

13 TROY: And that's not from being in a plume  
14 or anything else.

15 JACK: Yes.

16 TROY: And --

17 JACK: That's ground contamination.

18 TROY: That's ground --

19 TROY: That's at your, at what point was  
20 that again?

21 TROY: That was at --

22 ALLEN: That's on the thing isn't it, on  
23 the, you know, I took a quick look at that but --

24 TROY: But it's at the line at the Ibaraki  
25 Prefecture and Chiba Line --

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1 JACK: Yes.

2 TROY: -- in our direction.

3 JACK: Well you're going up there today  
4 aren't you?

5 ALLEN: Well we did --

6 JACK: And where?

7 ALLEN: --  
8 (b)(5)

9 JACK: Right.

10 TROY:  
11 (b)(5)

12  
13 ALLEN: You know, I had that for radio Iodine,  
14 but I don't have that, Steve, do you guys have that number  
15 for the other contaminate? Steve Luke?

16 STEVE LUKE: Yes, I'm here. Not sure what  
17 you're looking for though.

18 ALLEN: MDA for, let's see, the three radio  
19 iodine's and the two cesium's, I think, was basically  
20 what we're looking at? Or I guess overall MDA is probably  
21 the better thing.

22 So what is the MDA of what we can see on  
23 the ground with the, I think we, well we've got different  
24 numbers for the helicopter and different with the airplane.  
25 Helicopter is slower, but do you have that?

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1                   STEVE LUKE: Not off the top of my head.  
2 It will take me a little bit of time to dig it up, but  
3 I'll see what I can do.

4                   ALLEN: The CMA Team was supposed to be  
5 calculating it for us. You know, let me run upstairs  
6 stairs real quick and grab because I've got that four,  
7 I think they gave me the one for Iodine-131 so I can  
8 get that.

9  
10                   (b)(5)  
11  
12

13                   TROY: Okay. So what's green on his plots  
14 is not green from a continued dose standpoint.

15                   STEVE LUKE: Right.

16                   JACK: Yes, we understand that now.

17                   TROY: Okay.

18                   JACK: (b)(5)  
19

20                   DAN: Yes.

21                   JACK: (b)(5)  
22

23  
24                   DAN: I thought I said that to him yesterday.

25                   JACK: You did, but I don't think he

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1 understood quite what you were saying. That was just  
2 some feedback I heard.

3 DAN: Okay.

4 JACK: Don, are you getting all of this and  
5 are you hearing data that you're not receiving?

6 ADMIRAL KIRKLAND DONALD: I had to step out,  
7 Tim has been listening to it. So I've lost about of  
8 your connection there.

9 [Redacted] (b)(5)  
10 [Redacted]

11 JACK: Right.

12 ADMIRAL KIRKLAND DONALD: Okay.

13 JACK: [Redacted] (b)(5)  
14 [Redacted] Right.

15 ADMIRAL KIRKLAND DONALD: [Redacted]  
16 [Redacted] (b)(5)  
17 [Redacted]  
18 [Redacted]  
19 [Redacted]

20 [Redacted] (b)(5)  
21 [Redacted]  
22 [Redacted]  
23 [Redacted]  
24 [Redacted]

25 [Redacted] (b)(5)

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(b)(5)

STEVE LUKE: I think they're working, I talked to Allen yesterday about that, and I think they're working on getting that organized. In fact, he's going to get some stuff.

But, now let me just briefly add. (b)(5)

(b)(5)

MALE PARTICIPANT: No.

STEVE LUKE: There seem to be a run out from Yokosuka, zig zagged out through Chiba. We had a --

TROY: (b)(5)

(b)(5)

JACK: Say the data on the ground.

TROY: I said go down there and --

STEVE LUKE: Okay.

TROY: -- (b)(5)

(b)(5)

STEVE LUKE: Yes.

TROY: And I saw, but I'm not sure that --

JACK: Would they have been in that plume yesterday at that time?

TROY: Yes.

JACK: Okay, because unfortunately I don't have it with me but they only had two ranges. And I

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1 believe it was less than .01 millirem and then the next  
2 range was .01 to .02 millirem. If my memory is still  
3 there.

4 TROY: The gammas from yesterday's plume  
5 would have been .01 mR per hour.

6 STEVE LUKE: Okay, well that's consistent  
7 with what they were saying then.

8 JACK: Actually I think they were showing  
9 less than .02.

10 TROY: .02, okay.

11 STEVE LUKE: Are they reusing a  
12 (indiscernible)?

13 ADMIRAL KIRKLAND DONALD:

14  
15 (b)(5)  
16  
17  
18

19 JACK:

20  
21 (b)(5)  
22  
23

24 ADMIRAL KIRKLAND DONALD: Okay.

25 JACK: That was our flight over Yokosuka.

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1 ADMIRAL KIRKLAND DONALD: Well saying that  
2 less than .02 doesn't tell you that it is .02.

3 JACK: Right.

4 STEVE LUKE: Well we know the surface  
5 contamination level in Yokosuka by a 100 instruments.

6 JACK: Actually measurements.

7 STEVE LUKE: And it's actual measurements  
8 and it's about 1,000 microcuries per probe right now.

9 DAN: I guess where I was going with my  
10 question asking Don if he's got this stuff it will best  
11 inform us if we've all got the same data and how do we  
12 coordinate that to get --

13 ADMIRAL KIRKLAND DONALD: We're feeding all  
14 of our data into your data.

15 DAN: Okay.

16 ADMIRAL KIRKLAND DONALD: To DOE and NRC.

17 STEVE LUKE: Yes.

18 DAN: Okay.

19 ADMIRAL KIRKLAND DONALD: All of it.

20 DAN: Okay.

21 ADMIRAL KIRKLAND DONALD: And we'll do it  
22 every day.

23 DAN: Okay, I appreciate that. And then  
24 I think the broader question is that I think we're on,  
25 my understanding of what's been worked out from the room

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1 level down is we're on 0.4, the public protections  
2 recommendations relative to Japan.

3 The DOE is on .4 looking at the longer plumes  
4 to what goes to Alaska, Hawaii Islands and that, you  
5 know, obviously the DoD's got their act of interest for  
6 their personnel both occupationally and  
7 non-occupationally. And I think it would be helpful  
8 to perhaps work out a framework with communications.

9 I mean our communications on public  
10 protective measures are going to be driven by the EPA  
11 PAG's. That's the tool that we worked out over a very  
12 long time to use for that.

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15 (b)(5)  
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21 (b)(5)  
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1 All right, so it's always the worse place  
2 you want to be is the people who have information and  
3 then they'll start going into conjecture about it. So  
4 if we can --

5 ADMIRAL KIRKLAND DONALD: Right.

6 DAN: --send messages to them that  
7 appropriately characterizes the issues and, you know,  
8 imprudent actions rather than protective actions in terms  
9 of the pollens and what we use. Maybe we can work something  
10 out --

11 JACK: Can I --

12 DAN: -- in terms of communicating.

13 JACK: Can I answer that Dan?

14 (b)(5)  
15  
16

17 DAN: Um-huh.

18 JACK:

19 (b)(5)  
20  
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23  
24

25 And that needs to all be coordinated before

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1 we jump out in front of that. I mean we understand that  
2 the Navy is concerned and I, you know, as that protection  
3 is the driver on that. And that includes families and  
4 what not.

5 DAN: Yes.

6 JACK: But at the same time those families  
7 are part of the overall public issues that we're all  
8 dealing with. So that's why it's so important that we  
9 come up with some, whatever message it is we coordinate  
10 it so that we can be consistent.

11 DAN: Right.

12 TROY: So there's two pathways of dose here.

13 DAN: Right.

14 TROY: The plume and the ground strategy.

15 DAN: Right.

16 TROY: Okay, and we can calculate, well let  
17 me back up on step. I believe that you do not have enough  
18 surveys here in Tokyo to say you're not effected.

19 DAN: Right.

20 TROY: Because by my view of the wind and  
21 everything else that's going on, it's here, you just  
22 don't know it that well. And it may be caused by all  
23 the high buildings around here.

24 DAN: Right.

25 JACK: We only have two sensors effectively

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1 that we're accessing immediately.

2  
3 (b)(5)  
4  
5

6 DAN: Yes.

7 TROY:

8  
9  
10 (b)(5)  
11  
12  
13

14 JACK: Right.

15 TROY: --

16  
17 (b)(5)  
18

19  
20 (b)(5)  
21  
22

23 JACK: Right.

24 TROY:

25 (b)(5)

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1 [REDACTED]  
2 (b)(5)  
3 [REDACTED]  
4 [REDACTED]

5 JACK: [REDACTED] (b)(5)

6 TROY: Yes.

7 DAN: Yes.

8 JACK: Right.

9 TROY: And so --

10 DAN: [REDACTED]

11 [REDACTED] (b)(5)  
12 [REDACTED]

13 TROY: Right.

14 DAN: [REDACTED] (b)(5)

15 TROY: Right.

16 MALE PARTICIPANT: And we've talked, right,  
17 because we do have, it's limited, it's not as good as  
18 we'd like but we do have radiation data at the plant.

19 I mean they've got monitors and I think it's, you have  
20 access real-time, isn't that what you're saying?

21 TROY: I only have access to reactor site  
22 south of the reactor site. They've turned off the ability  
23 to see the ones onsite.

24 MALE PARTICIPANT: Oh, really?

25 TROY: Right.

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1 MALE PARTICIPANT: Well we should get that  
2 turned on.

3 DAN: But you're saying that you can see  
4 real time data monitoring from (inaudible)?

5 TROY: From (inaudible)

6 DAN: That's the one --

7 ADMIRAL KIRKLAND DONALD: Yes.

8 DAN: -- that's about ten kilometers south?

9 TROY: Yes.

10 DAN: Okay.

11 TROY: And all of them down the coast.

12 DAN: Okay.

13 TROY: So you can watch the plume.

14 DAN: You can watch it coming.

15 MALE PARTICIPANT: So do you know why we  
16 don't have it at --

17 TROY: Because they don't want the world  
18 to know what's going on there.

19 MALE PARTICIPANT: Okay.

20 JACK: Typical for the plants people.

21 MALE PARTICIPANT: So our conversation this  
22 morning, and you were on it a little bit, Jack, was we  
23 want some real time monitors in between there and I don't  
24 know how many real-time --

25 TROY: Well he might have --

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1 MALE PARTICIPANT: -- strip things he might  
2 be able to have, but --

3 JACK:

4 (b)(5)  
5  
6

7 DAN: Yes.

8 JACK: -- that exists simply to react to  
9 nuclear --

10 DAN: Right. They were on (inaudible) this  
11 morning by the way.

12 JACK: Okay.

13 DAN: I'll have you know.

14 TROY: So how many survey areas could they  
15 cover? Could they cover like five or six?

16 JACK: I think they could. I think they're  
17 coming with 45 folks.

18 TROY: Okay, but wait a minute, could we  
19 coordinate that?

20 JACK: Absolutely. If we just go out there --

21 ADMIRAL KIRKLAND DONALD: Thank you, I  
22 appreciate that. You're talking to the right guy.

23 DAN: I think we said in the past --

24 MALE PARTICIPANT: And we want to do that  
25 too, but we want to know, and I'm going to guess because

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1 most people don't carry continuous e-cams for this sort  
2 of, or continuous --

3 DAN: Air monitors.

4 MALE PARTICIPANT: -- air monitors, yes.  
5 Continuous e-cam is kind of redundant isn't it? But  
6 we're working at that and the question is, and I brought  
7 to Jack was, can the industry provide us with some cams  
8 that we can put in between that we can ping in real-time.  
9 Because that's really what we do need to do to get that,  
10 okay so I want two things, I probably would want --

11 JACK: I can certainly answer, as soon as  
12 we got here I'm in there bringing --

13 DAN:

14 (b)(5)  
15  
16

17 JACK: I have one survey team in Misawa with --

18 DAN: Yes, nothing but a survey team has  
19 bases. I mean, what other DOD dependents do you have  
20 that are in --

21 TROY: Camp (indiscernible, possibly  
22 "Simba").

23 DAN: Yes, so if you add North and South  
24 plume in there.

25 TROY: Yes, you get an answer there?

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1 JACK: We've got some guys, a bunch of folks  
2 out doing, taking measurements.

3 DAN: Yes, I mean you guys can dig through  
4 all that but --

5 JACK: And if we can make a circle --

6 DAN:

(b)(5)

8 JACK: That's right.

9 DAN: And so we're going to figure out a  
10 way either we do it, I don't think we should do it subtlety  
11 because the information is going to get out.

12 JACK: Can you develop --

13 DAN: Yes, you're not known --

14 JACK: -- a process with me?

15 DAN: Yes.

16 JACK: Something where we bring all these  
17 assets together and if think we need to change something  
18 we, the Embassy --

19 MALE PARTICIPANT: We need to get --

20 JACK: Right.

21 MALE PARTICIPANT: I just need some idea  
22 of, we can talk about flying when we're done here.

23 TROY:

(b)(5)

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1 DAN: Right.

2 TROY: And they have closed down a lot of  
3 the real-time monitoring data.

4 DAN: Right.

5 TROY:

6  
7 (b)(5)  
8  
9

10 JACK: I understand, but --

11 DAN: And you have to --

12 MALE PARTICIPANT: But you got that threat  
13 and it's the one that we've already exercised at one  
14 time. We established protective actions beyond what  
15 they did.

16 TROY: Right, exactly.

17 MALE PARTICIPANT: And they were pissed at  
18 us for doing it but we told them.

19 DAN: Exactly.

20 MALE PARTICIPANT: So I'm --

21 DAN: In fact I think the key there is if  
22 the collective we decide that there is an action that  
23 we need to take --

24 JACK: Right.

25 DAN: -- we need to think through what the

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1 protocols are because recognizing that, if it results  
2 from a significant step changing condition, it's something  
3 that we are going to have a very short window to respond  
4 to. So if you guys can be thinking through the protocols  
5 of who and how you communicate that --

6 TROY: Understood.

7 DAN: --

(b)(5)

9 TROY: Right, right.

10 JACK: We need to start on this ASAP.

11 DAN: We need, you need to be think about  
12 that now because when it happens is not the time to be  
13 think about.

14 JACK: That's correct.

15 TROY:

(b)(5)

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1 [REDACTED] (b)(5)

2 STEVE LAVIE: This is Steve Lavie at the  
3 PMT. I've been tracking, I spent a couple of nights  
4 in here last week and looking at the plume PADS.

5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED] (b)(5)  
8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]

11 Is any consideration being given to the fact  
12 that that plume would bypass all these monitors?

13 MALE PARTICIPANT: I can't say which  
14 monitors, you mean the one going out to sea?

15 STEVE LAVIE: Right, they don't have one  
16 going out to sea.

17 MALE PARTICIPANT: Right, we don't have any  
18 way of monitoring what's out in the ocean. That is correct.

19 JACK: Do we have, does AMS have the sensors  
20 to do plume collections?

21 MALE PARTICIPANT: (inaudible), AMS  
22 doesn't.

23 STEVE LAVIE: Because you know, if we're --

24 DAN: So they were sampling, I know the WC-135  
25 does.

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MALE PARTICIPANT: Yes, that's a  
different --

DAN: So you're going to ask that?

MALE PARTICIPANT: Yes.

JACK:

[Redacted block containing (b)(5)]

DAN: But I think it's about 36 hours delay  
to get it, from the time the 135 lands until we're actually  
getting the information back from it.

MALE PARTICIPANT: 36 hours.

DAN: 36 then we'll get it. As I recall.

ADMIRAL KIRKLAND DONALD:

[Redacted block containing (b)(5)]

JACK:

[Redacted block containing (b)(5)]

DAN:

[Redacted block containing (b)(5)]

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(b)(5)

(b)(5)

MALE PARTICIPANT: Right.

DAN: And I think we're not common in that particular arena right now.

MALE PARTICIPANT: Yes.

DAN:

(b)(5)

JACK:

(b)(5)

DAN: Right.

JACK: Right, that's been established to, actually this morning CBC came in, the CBC folks, and they meet units here.

DAN: But, and I would say you can't over think it because --

JACK: Right.

DAN: -- the clock ticks and the wind blows.

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1 MALE PARTICIPANT: Another priority, before  
2 we go to that and I want to go to that --

3 MALE PARTICIPANT: I understand.

4 MALE PARTICIPANT: Don, a quick question  
5 for you. Looking at the 10-9 up to the low 10-8 of general  
6 airborne particulate contamination with an expected  
7 contribution of Iodine, what's your take on that relative  
8 to the usefulness of a KI administration? You there  
9 Don?

10 ADMIRAL KIRKLAND DONALD: I'm here, I'm  
11 looking to my dose assessor folks because it's been too  
12 long ago since I tried to run that in my head. My reaction  
13 is, I want to check with somebody rather than try to  
14 give you --

15 MALE PARTICIPANT: Okay, because, and we'll  
16 they're crunching let me turn to Troy here and say, going  
17 back to your 17 hour exposure last week, what was the  
18 dose to the thyroid that you calculated for that?

19 TROY: 190.

20 MALE PARTICIPANT: And you're talking, so  
21 you're talking a little over a 10 millirem per hour uptake.  
22 And generally my sense of, from my vast experience of  
23 watching the weather patterns around here for a week  
24 and a half, my sense is that about once a week we're  
25 going to get a day to two day exposure. Is that kind

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1 of consistent with what you're looking at?

2 TROY: Yes, it's not good for about a week.

3 MALE PARTICIPANT: So, it's --

4 DAN: So for here? So you think the plume  
5 will be over Tokyo?

6 TROY: Well I think it's --

7 DAN: The current situation?

8 TROY: There must be some weather phenomenon,  
9 the mountains or something that's causing something to  
10 be weird over --

11 MALE PARTICIPANT: Channeling?

12 DAN: Well there is because, consider that  
13 you've got 12 13,000 foot mountain kind of poking up  
14 in the middle there --

15 TROY: Yes.

16 DAN: --that creates this effect. The Kanto  
17 Plain is normally, if you look at the weather maps in  
18 Tokyo, what do you know, you've got rain everywhere expect  
19 around Tokyo.

20 TROY: Yes.

21 DAN: And either it's creating a high  
22 pressure that keeps it out or --

23 JACK: Last week what came through was a  
24 low pressure that just kind of moved right across the  
25 area and off into the Pacific. And as that came through

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1 it just rotated the wind from seaward, counterclockwise,  
2 right through the compass over a 24 hour period and back  
3 out to sea.

4 What've been experience the last couple of  
5 days is a low pressure system that came and stalled off  
6 shore. And we're on the backside of it and the winds  
7 rotating right around and blowing into the South over  
8 the plant. And so that's, but I don't know what's got  
9 it stalled out there. I haven't gotten the broader picture  
10 to see what's got it stalled.

11 But, so, Don, so from our end, you know,  
12 if you were looking at a forecast and you had a 72 hour  
13 period where you were anticipating a ten to 20 millirem  
14 uptake of Iodine, from a KI perspective, where does that  
15 put you?

16 ADMIRAL KIRKLAND DONALD: I think you're  
17 still at, both of a smaller fraction of EPA's PAG and  
18 we wouldn't pull the trigger. That's my understanding  
19 of the discussion with the EPA folks.

20 TROY: Okay, what if it happens seven times  
21 in the next 30 days?

22 JACK: I guess part of my question is, is  
23 the value of KI relative to a, we tend to talk about  
24 chronic exposures and acute exposures and we tend to  
25 talk to them as being polar opposites and what I'm kind

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1 of hearing here is we're kind of in the gray area between,  
2 it's a little bit of a high chronic uptake and so I guess  
3 one of the things I will be interested in and if you  
4 guys don't have the answer right there and we can probably  
5 talk to some of the air medical health effects and the  
6 Embassy folks --

7 TROY: Right.

8 JACK: -- but where do you start looking  
9 at, as you start increasing the chronic air takes, where  
10 do you start saying yes, maybe administration is prudent?  
11 So that's one thing to think about but I think even  
12 apart from that is --

13 TROY: But that's why I want to use the model  
14 because for Tokyo, if this plume just goes over Tokyo  
15 for 48 hours, this table tells me it's 3 mR per hour  
16 to the thyroid for 50 hours, so you're talking a 150  
17 millirem for two days of exposure.

18 JACK: Yes.

19 TROY: And then that's why I said seven more  
20 times in the next 30, you're going to eventually work  
21 your way.

22 JACK: Right. And I'm hearing that Troy  
23 and I'm think in two terms. One I'm thinking in terms  
24 of the general accumulation of chronic dose, but the  
25 other piece that I'm trying to work through in my mind

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1 and I don't have the knowledge to and I'm looking to  
2 my guys back there and we can talk to your medical health  
3 effects here, is from my understanding, the purpose of  
4 KI is to saturate the thyroid with pure, with  
5 non-radioactive Iodine.

6 So when you're talking about feeding drips  
7 and drabs of radioactive iodine into the environment  
8 over extensive periods of time, where do you call the  
9 threshold go where it may be prudent to --

10 TROY: You can't keep administering the KI.

11 JACK: Right, right. So that's kind of kind  
12 of my question --

13 TROY: What's the medical reason for that,  
14 can somebody teach me the --

15 DAN: Okay, they told me that it was only  
16 one pill per 24 hours.

17 TROY: Right.

18 DAN: And the chronic saturation of thyroid  
19 would lead to complications of --

20 MALE PARTICIPANT: Hyperthyroid. So I mean  
21 it wouldn't happen to everyone, I mean, but there are  
22 people that, again, that gets to that risk thing, right,  
23 is what people you're putting at risk.

24 JACK: So you're trying to mitigate one risk  
25 and you're introducing another risk --

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1 MALE PARTICIPANT: Yes, exactly.

2 MALE PARTICIPANT: -- and where's the  
3 tradeoff, exactly.

4 MALE PARTICIPANT: Exactly. So and that's  
5 something that we're not going to --

6 JACK: Can you get five down to one? Do  
7 we know that?

8 DAN: Well that's what the national people  
9 have to do, Don.

10 MALE PARTICIPANT: And be effective when,  
11 do we have everybody sitting there watching the weather  
12 channel and going, should I take my KI today or not?

13 MALE PARTICIPANT: As a matter of fact that's  
14 one of the things --

15 JACK: Well just over 40 versus whose under  
16 40 and blah, blah, blah.

17 MALE PARTICIPANT: -- you know, the Embassy  
18 was, you know, it's like yes on our web page it's like,  
19 today's a good KI day or you know, well I'm not sure  
20 that's a good, you know, because we talked about --

21 (Crosstalk)

22 MALE PARTICIPANT: -- and when you're  
23 messaging, you know, it's like well we do take protective  
24 actions for, you know, we put out protective guidelines  
25 for bad air days, right, and we've seen those in D.C.

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1 and Tokyo and what have you.

2 JACK: Yes.

3 MALE PARTICIPANT: But, and people pretty  
4 regularly ignore them but this is not the same kind of  
5 messaging because iodine is not the same thing as a little  
6 bit extra dose on our pollen or whatever. This is a  
7 completely different message so those are not the  
8 equivalent. So I thought about this a little bit, you  
9 know.

10 JACK: Yes.

11 MALE PARTICIPANT: Yes, it is not the same  
12 message if you every five days you put out a stay inside  
13 and take your KI kind of a message. It just, again,  
14 it goes back to that what's reasonable and what's  
15 unreasonable or what's unreasonable warring people I  
16 think is the question.

17 JACK: Yes.

18 MALE PARTICIPANT: So I think there's a lot  
19 to be done yet. So in my book one of our priorities  
20 should probably be somehow getting better concept of  
21 what's going on, what's coming out of the plant.

22 So a continuous air monitoring system, I  
23 don't know, again, I'm doubting that AFRAT has them.  
24 I know that the Navy's got some and I'm pretty sure the  
25 industries got some.

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1 Something that we can ping ourselves.

(b)(5)

2  
3 JACK: Exactly.

4 MALE PARTICIPANT:

5 (b)(5)  
6  
7

8 DAN: But let the Embassy deal with that,  
9 that's not relevant.

10 MALE PARTICIPANT: Well --

11 JACK: Well no, I understand what you're  
12 saying, but we should focus on the technical side.

13 MALE PARTICIPANT: I can be more of a  
14 troublemaker than you, but we should probably agree with  
15 you.

16 JACK: (Inaudible) sides.

17 MALE PARTICIPANT: Yes, exactly. So you  
18 figure out how to get it to them.

19 TROY: Not me.

20 JACK:

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

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1 TROY: Yes, something --

2 DAN: Can we focus on perhaps goals of what  
3 we want to accomplish, see what we need to do and then  
4 set priorities and then tasking? Just to focus in on,  
5 I mean we've got a great discussion here and if we're  
6 passing great information, but we're not coming to a  
7 conclusion or an end point.

8 MALE PARTICIPANT: You got something?

9 DAN: Well the original purpose of this  
10 meeting was, Ambassador is trying, he called this  
11 determinization. All right, okay, that's a nice neat  
12 word.

13 And I think his concept, I think his concept,  
14 and let me flip that I thing because I'm not sure he  
15 understands, that he wants some advice from the experts.

16 And that advise needs to be clear to him by giving him  
17 all the technical data.

18 He can't make decisions based on technical  
19 data. He needs something that's clear.

20 Now to me you guys have outlined your position  
21 and it makes a lot of sense to me, I now understand why  
22 we were looking at the green line thinking, you know,  
23 I was too for a while until Allen explained that it really  
24 was a contamination, but at the moment it wasn't a dangerous  
25 one.

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1                   However, he needs to look at this long term.

2                   And so how do we approach this to bring clarity to a  
3 situation that he should think about long term, if that's  
4 what we are, we should also, what happens if the reactor  
5 decides to really spew out some issues.

6                   TROY: And how do we determine that and how  
7 do we --

8                   DAN: We need that warning to be able to  
9 reactor in time. So maybe that's a priority because  
10 of our concerns with the, what's going on.

11                   So maybe, why don't we focus on that for  
12 a few minutes and see what we can do. We already have  
13 some suggestions, get that early warning system into  
14 place. Which we don't have right now, but at the same  
15 time we've got to overcome Japanese inertia and talk  
16 perhaps resistance.

17                   Or perhaps not. We do have contacts in the  
18 (inaudible). I understand from the, at the NRC that  
19 things were going very well cooperation wise. Hey, come  
20 on in.

21                   STEVE LUKE: We're still here.

22                   DAN: We're still here.

23                   FRANK: I guess I could.

24                   DAN: Good. Nobody's dead, they cut their  
25 throat, no blood on the floor.

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1 [REDACTED]  
2 [REDACTED] (b)(5)  
3 [REDACTED]  
4 [REDACTED]

5 And as most of us know that have been in  
6 Japan for a while, the stove piping issue of whose got  
7 control over what. Maybe we're breaking some of that  
8 down at least at the levels we need to or maybe not.

9 By turning off the sensors we've now blinded  
10 us in some respect from a early system. Maybe we can  
11 get their sensors turned back on or at least directed  
12 to us. So that might be a better situation.

13 So is that, we need an early warning system,  
14 is that --

15 MALE PARTICIPANT: I think that's, yes,  
16 that's definitely --

17 DAN: I mean to break it down into a simple --

18 FRANK: Let me, I'm going to have to step  
19 out here..

20 DAN: Frank?

21 FRANK: Let me put just a couple of thoughts  
22 on the table before I walk away. The early warning system  
23 I think, howdowe detect a significant change? Thresholds  
24 for changes in communications relative to American  
25 citizens in general --

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1 DAN: Right.

2 FRANK: -- and personnel who are (inaudible)  
3 they know about the plume, they're talking with their  
4 families and so on. So the threshold for changes and  
5 the communications.

6 And then did the naval base issue open any  
7 communication in that discussion over the last 48 hours?

8 I know they had done one last week.

9 TROY: We did one for, they never come and  
10 picked up the KI.

11 JACK: Okay.

12 TROY: And that was it.

13 JACK: Nothing for shelter and (inaudible)?

14 TROY: No.

15 FRANK: Okay, but there was one last week  
16 that was --

17 TROY: That was issued to minimize your time  
18 outside.

19 JACK: Yes, outside.

20 FRANK: Right.

21 JACK: And so maybe bring that one backup  
22 and embed it in this broader concept and including it  
23 into the assessment and so, okay, you can say you're  
24 going to issue that on the base but it's going to get  
25 out and I'm assuming you've got Japanese personnel on

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1 the base.

2 FRANK: Yes.

3 JACK: Basically you issue it to the, it's  
4 out there. And did we see any ripple from last week  
5 or was that mile per hour model evacuation?


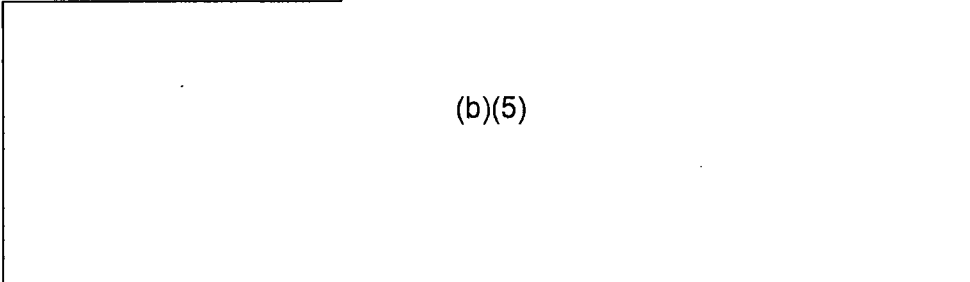
6 TROY: Before we put out that sting that  
7 we called (indiscernible, possibly "MOFA") --

8 JACK: Okay.

9 TROY: -- got their understanding and  
10 agreement and then we called the city, told them we were  
11 going to be, so we already, we staffed it a head of time.


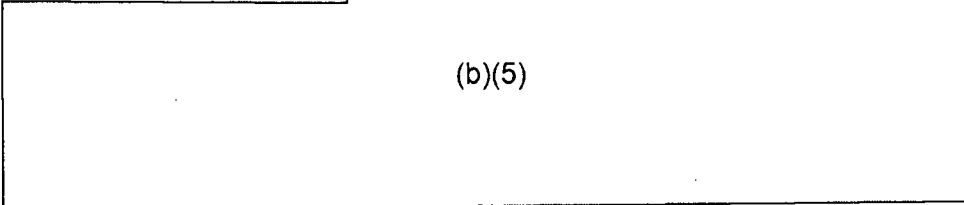
12 JACK: Okay, so --

13 DAN: Right.

14 JACK:   
15   
16 (b)(5)  
17  
18

19 TROY: I have a copy of that.

20 DAN: Again, you have it in the North for  
21 Camp Sandia.

22 JACK:   
23   
24 (b)(5)  
25

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1 TROY: See that's public --

2 DAN: And that goes to the next point I was  
3 going to say --

4 JACK: Right.

5 DAN: -- is a protocol, you know, you guys  
6 follow the protocol there. It sounds like, I could be  
7 not in the loop for this but I haven't heard any great  
8 repercussions of the Japanese getting, well about that  
9 communication.

10 JACK: Well there is a lot of --

11 TROY: I checked off the American, that's  
12 for sure.

13 STEVE LAVIE: I think it's a lot like dose,  
14 it's accumulative though.

15 DAN: Yes.

16 JACK: Yes. I maybe unduly optimistic but  
17 I'm confident that when this is all over Americans are  
18 still going to get along as much as Americans have ever  
19 gotten along. I more worried about the Japanese American  
20 relationship at the end of this thing. I'll say I'm  
21 sensitive to it because I'm worried about getting these  
22 reactors stable.

23 DAN: Right.

24 JACK: But so for any kind of messaging that  
25 we think we might want to do, even if we think it's internal

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1 to our people --

2 DAN: Right.

3 JACK: -- is, they're still, we're still  
4 going to want to have, Dempsey's going to want to be  
5 talking to somebody on the other side and say --

6 DAN: Exactly.

7 JACK: -- say this is how we're going to  
8 do it.

9 TROY: Yes.

10 JACK: With the finer protocol for that.

11 TROY: Perhaps, I could I make a suggestion  
12 for the moment? I think we all need to think about these  
13 things and bring them. Could we get together this  
14 afternoon? I know, but --

15 JACK: Yes, I know but we've got to continue  
16 this and this will allow us to break up and talk among  
17 ourselves, so to speak, and understand what we can bring  
18 back to the table, basically, our discussion.

19 TROY: One thing I would like to get is what,  
20 again, cams that we have available that we could put  
21 out there.

22 JACK: Okay.

23 STEVE LUKE: And I know, you're going to  
24 the industry and Navy and --

25 (Crosstalk)

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1 STEVE LUKE: -- but I don't know that those  
2 help us because they're really sweet (inaudible), so.

3 DAN: Okay, got you. I'm just going to put  
4 an email in to PMT there --

5 STEVE LUKE: Okay.

6 DAN: -- and I think we're going to talk  
7 later about it. When it comes to the letter, the previous  
8 letter, could you make sure that I get it and the PMT  
9 get a copy of it?

10 TROY: What we put out to the --

11 DAN: You know, I think we might have it,  
12 but --

13 TROY: Yes, I'll send it to you.

14 STEVE LUKE: So when are you going to do  
15 this thing?

16 TROY: Would 3 o'clock be convenient or no?  
17 To minimize you time to the indoors.

18 STEVE LUKE: I've got a 4 o'clock, so.

19 TROY: Should I make it to 4:00?

20 STEVE LUKE: I've got my 4 o'clock --

21 TROY: Oh, yes, you got a meeting. 2:30?  
22 I don't know how much time --

23 STEVE LUKE: I don't know, if you do it at  
24 3:00 that give us a --

25 TROY: A window, okay. Is 3:00 okay with

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1 everyone?

2 DAN: So who has lead? You're the lead for  
3 early morning systems?

4 STEVE LUKE: Okay, so I'll be lead for  
5 collecting the data for early morning systems.

6 DAN: Right.

7 STEVE LUKE: Actually providing them.  
8 NRC's going to look, AFRI is going to look and, now do  
9 I look at him for AFRI, do I look at you for AFRI, sir?

10 TROY: Well look at him for any Military  
11 access --

12 STEVE LUKE: Okay, so AFRI and Navy access  
13 to a continuous air monitoring system.

14 DAN: Right, okay.

15 STEVE LUKE: And I don't care about a strip  
16 chart, we can do, we can work with --

17 TROY: Well I don't have anything here.  
18 Do they need (inaudible) connection? How do you monitor  
19 that --

20 STEVE LUKE: Well yes, they've got to be  
21 remotely monitorable though.

22 DAN: How though, in terms of RF?  
23 Communication to the land line, you know, IP, what?  
24 Because that's tricky too.

25 JACK: I can call back --

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1 DAN: Okay.

2 JACK: I'll get a hold of them.

3 DAN: If you could find out the details on  
4 the equipment it might be available on how they would  
5 operate because that will determine how we can place  
6 them.

7 STEVE LUKE: And then once we get that we  
8 can, I mean we can be responsible for the monitoring  
9 and letting everyone know what's going up when. So --

10 JACK: Right.

11 DAN: We also have a few more assets that  
12 are coming in. The British Military wanted to talk to  
13 us about their assets.

14 TROY: Yes, they've got airborne that I hear  
15 is pretty good.

16 DAN: Right, I don't know if it's here or  
17 not.

18 TROY: I don't think it is.

19 DAN: Okay. Have you, I've tried to contact  
20 the DAF over there this morning. I don't know if he's  
21 gotten back to me or not. Would it be appropriate for  
22 you to talk to him? I mean it probably would be or,  
23 yourself, I don't know.

24 TROY: I'll have to --

25 DAN: Rather than having me get in the middle

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1 of Military issues. I don't want to do that.

2 TROY: Okay.

3 STEVE LUKE: Okay, so the next one I guess  
4 is threshold and how to communicate and I think --

5 DAN: I think Captain Cooper has the details.

6 CAPTAIN COOPER: It is, you know, naval  
7 reactors in NRC. I mean you've done some of your homework  
8 on the plume model and so I think that maybe headquarters  
9 can coordinate some of their analysis regarding the data  
10 that we have.

11 DAN: Which is why I thought we were doing  
12 this morning.

13 CAPTAIN COOPER: Exactly.

14 DAN: Because I thought that's what they  
15 were doing.

16 CAPTAIN COOPER: Right, right.

17 DAN: Right.

18 CAPTAIN COOPER: And then they'll discuss  
19 threshold again.

20 DAN: Right.

21 JACK: I think that would be very beneficial.

22 CAPTAIN COOPER: You know, I think if we  
23 could come together on the threshold part --

24 DAN: Right.

25 CAPTAIN COOPER: -- then that's half the

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1 battle.

2 DAN: Right.

3 CAPTAIN COOPER: And then the other half  
4 of the battle is how to communicate it. And I think  
5 that brings us here for that particular reason that we  
6 actually are able to look at the protocol and the  
7 consistency with the Japanese way of determining their  
8 threshold.

9 DAN: Right.

10 CAPTAIN COOPER: You know, I think that's  
11 where we're at.

12 DAN: Right.

13 TROY: And I think part of the calculus in  
14 determining our threshold seems to be, what are the  
15 thresholds of the Japanese?

16 CAPTAIN COOPER: Absolutely.

17 DAN: Well yes, although they're very slow  
18 to react in many cases. So we have to be able to be  
19 on the front of the cuffs with that.

20 TROY: Do they have threshold?

21 CAPTAIN COOPER: Yes.

22 DAN: Yes, they do.

23 STEVE LUKE: But they're all dose rate based  
24 and --

25 DAN: As opposed to accumulative.

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1 CAPTAIN COOPER: No, usually with the  
2 PAG's--

3 STEVE LUKE: That's the problem we're having  
4 is communicating.

5 DAN: Right, they don't have the concept.

6 CAPTAIN COOPER: I wonder if we have those  
7 written down somewhere, you know, we could look at them.

8 DAN: The --

9 CAPTAIN COOPER: Don, you still here?

10 ADMIRAL KIRKLAND DONALD: I'm still here  
11 with the speaker phone. You can't just start talking  
12 and you end up being able to hear us. I'm not positive  
13 personally at the moment.

14 I would assume we've got the Japanese version  
15 of their PAG's, but if you've got it there and can resend  
16 it, that probably would help us.

17 STEVE LAVIE: I have a suggestion, call Naval  
18 Reactors, the NRECC. We have their PAG's in our offices.

19 STEVE LUKE: We actually have a table that  
20 we developed that had the, I believe the PAG's but --

21 DAN: Okay.

22 STEVE LUKE: We're talking about the warning  
23 PAG's and not like the industrial PAG's --

24 CAPTAIN COOPER: Right.

25 STEVE LUKE: -- or the ingestion PAG's,

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1 right?

2 CAPTAIN COOPER: Right.

3 STEVE LUKE: So I think we've got a table  
4 that compares our and there's too.

5 CAPTAIN COOPER: If you could send that to  
6 the PMT and me that would be great.

7 STEVE LUKE: Okay.

8 ADMIRAL KIRKLAND DONALD: Yes, that would  
9 be good and helpful. We're going to be passing onto  
10 our next shift because we will do a turnover here in  
11 half an hour.

12 To try and follow-up on some of the key people  
13 that I would like to be involved on this may not be available  
14 in the overnight hours here on the East Coast. Particular  
15 with regards to a chronic build of 100 millirem here,  
16 a 150 millirem there over blocks of time versus KI as  
17 I would like to get Trish Milligan and Ed Tupin from  
18 EPA and some of the people who knows this business as  
19 opposed to me, who only dabbles in the edge of it involved.

20 We will hand off to the next shift, but it  
21 may take a little bit longer to get some of those folks  
22 wrapped in and get a better cross agency view back here  
23 on this side of the Atlantic. Or Pacific.

24 CAPTAIN COOPER: Good, Don. You know, as  
25 we break here I'm just going to give you a call for about

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1 ten minutes to do a recap of what we talked about, okay?

2 ADMIRAL KIRKLAND DONALD: Ten four.

3 DAN: Are we done?

4 CAPTAIN COOPER: I think so. The actions  
5 associated with the three main things I think have been  
6 discussed and we understand who has what, okay. I said  
7 it with an explanation mark at the end, but --

8 JACK: I have just one item that I wanted  
9 to, but Dan's mentioned that he thought that the NRC  
10 was focusing on the public exposure and that DOE was  
11 looking at the longer term issues of the plume to the  
12 U.S.

13 CAPTAIN COOPER: Right.

14 JACK: However, and I just say however, we  
15 noticed last night when we tried to get some data, that  
16 that scenario had taken over our scenario.

17 CAPTAIN COOPER: Right.

18 JACK: And therefore we had lost time in  
19 getting the --

20 DAN: The trans PAG.

21 JACK: Yes, exactly.

22 DAN: Yes, and that came down from higher  
23 up.

24 CAPTAIN COOPER: For the West Coast?

25 JACK: Yes. So if that starts happening

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1 and we're losing, we're not going to have what we need.

2 CAPTAIN COOPER: Right.

3 JACK: Data wise, so I don't know how --

4 TROY: Not data but I guess --

5 JACK: I mean model calculation. So that's  
6 my concern, whether we can do anything about it I'm not  
7 sure. Troy, you had talked about some possibilities.  
8 I don't know, was that (inaudible) or --

9 TROY: I'm sorry, I was lost in thought on  
10 something.

11 JACK: Oh, I'm sorry.

12 TROY: Can you re-ask me the question?

13 JACK: We were talking about the problem,  
14 remember yesterday there was a calculation that was setup  
15 that was going to run, take eight hours to do?

16 TROY: Yes.

17 JACK: And --

18 TROY: That was done.

19 JACK: And so your discussion was --

20 TROY: Well hold on. So that was the severe  
21 reactor accident calculation?

22 CAPTAIN COOPER: He did, you did MELCOR,  
23 right?

24 TROY: MELCOR, yes.

25 CAPTAIN COOPER: MELCOR's what we've got

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1 now, right?

2 ADMIRAL KIRKLAND DONALD: I think that's  
3 right but then it got put into NARAC and --

4 JACK: Right.

5 ADMIRAL KIRKLAND DONALD: And so we have  
6 now the worse case numbers for this area.

7 JACK: I know that's over with but what I'm  
8 saying is, are we going to get another tasking, are they  
9 going to get another tasking from up above that's going  
10 to preempt what we need down here? Who knows but it  
11 hasn't --

12 ADMIRAL KIRKLAND DONALD: Not that I'm aware  
13 of.

14 JACK: Okay. All right, we'll continue to  
15 hope they have the access.

16 ADMIRAL KIRKLAND DONALD: All right.

17 DAN: All right.

18 TROY: I got it.

19 DAN: Okay, anything else? At the moment?

20 CAPTAIN COOPER: I do have one last question  
21 on the timeline basis. When do we need to converge?  
22 Do we have an idea what the Ambassador is considering  
23 what the next action is? You understand what I'm saying,  
24 Bruce?

25 BRUCE: Yes, I don't know what they're doing

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1 right there. They've asked us to put together this message  
2 on proposed trip line.

3 CAPTAIN COOPER: We got that part of it.  
4 I think I saw some message traffic either email or verbal  
5 that said tomorrow sometime.

6 DAN: Yes, there's another message that  
7 indicated that he wanted to hear from NRC DOE --

8 CAPTAIN COOPER: NR.

9 DAN: NR, yes. Regarding the terminization  
10 business. Whatever that concept is that he has.

11 CAPTAIN COOPER: Right, one voice.

12 DAN: One voice. Are we, you know, and I  
13 think it's clearer now that we are, tell me if I'm right.

14 CAPTAIN COOPER: Right.

15 DAN: We're looking at the accumulated  
16 dosage, dose rates, rather than, let me set that aside.

17 STEVE LUKE: Well it's both.

18 DAN:

19  
20  
21 (b)(5)  
22  
23  
24

25 CAPTAIN COOPER: And I think that's the

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1 identical to what Bruce was talking about with the current  
2 bar that we had discussed.

3 DAN: Right, so we need for him to be able  
4 to perhaps come up with a trip wire for that as well.

5 MALE PARTICIPANT: Well they were talking  
6 about actual or projected dose.

7 DAN: Right, that's right.

8 MALE PARTICIPANT: So if you calculate how  
9 much we may have already accumulated and then there's  
10 something with the plume coming, somewhat type of trip  
11 wire.

12 DAN: And that's a good point because I think  
13 that would be a real, what have we accumulated. Do we  
14 know what that is?

15 STEVE LAVIE: I'm talking about like here.

16 DAN: What have we accumulated? Is there  
17 a way --

18 TROY: Yes --

19 CAPTAIN COOPER: -- frisker?

20 TROY: I just, huh?

21 CAPTAIN COOPER: Do you have a frisker?

22 TROY: Do I have a frisker, not with me.  
23 There is a frisker here, he's got a frisker, he frisks  
24 people with it.

25 JACK: Oh, yes, I suppose so.

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1 TROY: The only thing I brought with me was --

2 JACK: I'll go do (inaudible) myself.

3 TROY: But, no, that's what the Marines are

4 coming in, one of the things the Marines wanted to do.

5 CAPTAIN COOPER: Okay, fine.

6 TROY: But they are outnumbering us --

7 CAPTAIN COOPER: All right.

8 JACK: But just one kind of other thing that

9 kind of strikes me is that, and I think we have to be

10 very disciplined in our communications.

11 DAN: Yes.

12 JACK: And I think within the folks that

13 are in the room here, I think that if data becomes available

14 and that is concerning to you, I think you have to sit

15 down and have a conversation with it us so we can all

16 get on the --

17 DAN: With a group, yes.

18 JACK: And if we are not disciplined enough

19 then we can end up going off in different directions

20 and that can be very damaging to the relationship, to

21 a lot of different things.

22 DAN: Good point.

23 TROY: Yes, and then if we at least try to

24 say --

25 CAPTAIN COOPER: Right.

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1 DAN: But at the same time we've got a lot  
2 of people looking for a, if I may use the word product,  
3 and so --

4 TROY: The want the answer.

5 DAN: Exactly.

6 TROY: They want the answer.

7 DAN: Well yes and they --

8 TROY: But the question, it's --

9 DAN: Should we be discussing some of these  
10 action items with that medical group so that they can  
11 start considering what areas they want to deal with?

12 STEVE LUKE: I mean it's, you know, where  
13 do you draw the line of who you add to something because  
14 I mean there's messaging too. So I mean I think we're  
15 really trying to get, okay, so my whole goal is to come  
16 up with a way that we can provide monitoring support  
17 to customers that we have. DoD, the Embassy,  
18 (inaudible) --

19 DAN: Right.

20 STEVE LUKE: -- and eventually the Japanese  
21 people too. I mean we do consider that as part of our  
22 mission.

23 DAN: Okay.

24 STEVE LUKE: So I knock up, that's my goal  
25 that the NRC, well the other one I need to support is

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1 really the NRC in their assessment of what's going on  
2 at the plant. And that supports the overall response.

3 DAN: Right.

4 STEVE LUKE: So I mean I'm kind of focused  
5 on, you know, I want to get, again, I want to put those  
6 dots on the map.

7 CAPTAIN COOPER: Right.

8 DAN: Right.

9 JACK: There's a chunk that I think, that  
10 I had, again, the intelligence community working on and,  
11 for a lack of a better term, an operational (inaudible)  
12 of what the current radiological conditions are --

13 CAPTAIN COOPER: We have a local one right  
14 here too.

15 JACK: And so, and with some, attempt to  
16 try to determine what they might be in the future. So  
17 will call coming up with the picture --

18 STEVE LUKE: Okay.

19 JACK: -- they're trying to lay it down kind  
20 of see what they come up with to see if we can get that.

21 CAPTAIN COOPER: Could you bring your GF  
22 temporary --

23 STEVE LUKE: Okay, let's call it and --

24 MALE PARTICIPANT: All right, 3 o'clock.

25 DAN: Okay, we're going to touch base at

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1 3:00?

2 STEVE LUKE: Sure.

3 ADMIRAL KIRKLAND DONALD: If I cannot be  
4 here at 3:00 I'll certainly give the information to Troy --

5 DAN: All right.

6 ADMIRAL KIRKLAND DONALD: -- with respect  
7 to the continuous monitoring by the Air Force, so.

8 TROY: Okay.

9 DAN: Are you going to be upstairs then at  
10 right time?

11 CAPTAIN COOPER: Okay.

12 ADMIRAL KIRKLAND DONALD: We have new  
13 offices. We're at the first door on the right. Thank  
14 you everybody.

15 DAN: All right, I'll talk to you in a little  
16 bit, Don.

17 ADMIRAL KIRKLAND DONALD: After you call  
18 me back.

19 DAN: Okay.

20

21

22

23

24

25

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0%MTCW@604065094

1  
2 (CONFERENCE CALL INITIATED)

3 TIM HARRIS: Harris, PMT.

4 HEADQUARTERS OPERATIONS OFFICER: I've got  
5 Jack Foster on the line.

6 TIM HARRIS: Hey, Jack.

7 JACK FOSTER: Hey, Don. I know you're  
8 probably getting ready to do your hot wash --

9 TIM HARRIS: Yes, this is actually Tim.  
10 Don is actually doing his hot wash. Let me put you on  
11 speaker phone, okay?

12 JACK FOSTER: Okay.

13 TIM HARRIS: All right. Hold on.

14 DON COOL: Are you there, Jack? Hey Jack,  
15 you there?

16 JACK FOSTER: Yes. Just a quick thing. I  
17 know you guys plugged in your hot wash and want to go  
18 ahead and do a transit.

19 DON COOL: This is actually perfect because  
20 John Tappert's got the shift for the next eight hours  
21 and he's sitting here. So talk to us.

22 JACK FOSTER: Awesome. Okay. You know, I  
23 just want you guys to realize that I think that we got  
24 a short timeline on the, you know, kind of converging  
25 on the threshold issue. So if you guys could look at

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1 the data that NR sent us and I'm going to try to go ahead  
2 and get DOE.

3 They said they had sort of a crosswalk  
4 document associated with the protective actions that  
5 we have versus the Japanese. So that will help us out  
6 too, okay?

7 DON COOL: That'll help us out. A couple  
8 of thought points because I don't know quite how. It  
9 felt like I was being pushed into a corner and prodded  
10 with a goat all at the same time.

11 JACK FOSTER: Well, I apologize if I had  
12 anything to do with that.

13 DON COOL: No that wasn't you.

14 JACK FOSTER: Okay.

15 DON COOL:

16 (b)(5)

17  
18 JACK FOSTER: Right, right. And I agree  
19 with you. I think that that's the general idea with  
20 DOE, too. They feel the same way.

21 DON COOL: That's a bit of a tough place  
22 to be in. That almost requires getting the EPA folks  
23 to weigh in on the application of the PAGs of them as  
24 well.

25 JACK FOSTER: And if that is the case, then

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1 I don't think there's a chance, a snowball's chance of  
2 that going that way. But that's just me.

3 DON COOL: I know. The other thing that  
4 I know we would like to try and turn this around in the  
5 next few hours, I am assuming you're going to wrap John  
6 and the crew in for this 3:00 your time which would be  
7 2:00 a.m. here.

8 JACK FOSTER: Exactly, exactly. So John  
9 will be on watch at that time?

10 DON COOL: What?

11 JACK FOSTER: John will be available? John  
12 Tappert will be available at that time?

13 DON COOL: Yes, they'll listen in.

14 JACK FOSTER: Okay.

15 DON COOL: I've handed off to them the  
16 questions to start considering and see what we can do.  
17 Now getting to what I think the other point is, the  
18 continuous air monitors and what resources.

19 JACK FOSTER: Yes.

20 DON COOL: Not being completely familiar  
21 with the INPO initiatives and things, but I think there  
22 are two INPO people over there now.

23 JACK FOSTER: Over here?

24 DON COOL: Yes.

25 JACK FOSTER: I'll see if I can track them

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1 down. I wasn't aware that they were at the Embassy.  
2 They may be, you know, in country. But I'll see what  
3 I can do about tracking them down, okay?

4 DON COOL: I thought there were some people  
5 in country. Maybe they're actually arriving today, I'm  
6 not quite sure.

7 JACK FOSTER: Okay. Well, you know, I'll  
8 talk to the Embassy guys.

9 DON COOL: Like that would be the right way  
10 to try and tap into industry resources.

11 JACK FOSTER: The idea I think, and you'll  
12 agree with this, is ultimately we want to hand this off  
13 this off to INPO because they're the experts in this.

14 DON COOL: Well, and we don't have cams.  
15 If they've got the cams and want us to supply that to  
16 the government or otherwise.

17  
18 (b)(5)  
19  
20

21 JACKFOSTER: Yes, that's crazy. And I don't  
22 think it's necessarily just for the military there.

23 DON COOL:

24 (b)(5)  
25

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1 [REDACTED] (b)(5)

2 [REDACTED]

3 [REDACTED]

4 [REDACTED] (b)(5)

5 [REDACTED]

6 [REDACTED]

7 JACK FOSTER: Yes and that does make sense.

8 I understand that. Okay, well 3:00 is what we're going  
9 to talk about. I don't think we have to have actually,  
10 you know, a decision or absolute analysis at that time.

11 But, you know, I agree with you Don that we should be  
12 working in that direction.

13 The timeline, like I said, is tomorrow  
14 probably close somewhere between noon and close of  
15 business Japanese time that we're probably going to be  
16 having to be called up to the Ambassador's office to  
17 figure out, you know, where we're at with it.

18 DON COOL: Well, if we can go through a day  
19 shift here --

20 JACK FOSTER: I think you can.

21 DON COOL: -- which would be the case because  
22 you said tomorrow your time, right?

23 JACK FOSTER: Right, right. And that's like  
24 some time noon here so it'll be midnight your time.

25 DON COOL: Right. So if you're talking

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1 tomorrow and not late this afternoon --

2 JACK FOSTER: No, we're not.

3 DON COOL: -- that means we can go to a day  
4 shift here which means we can get Trish Milligan (phonetic)  
5 and the other people, and we can have some added insights  
6 to this thing I hope --

7 JACK FOSTER: Right, right.

8 DON COOL: -- (indiscernible, possibly "very  
9 helpful"). Let me say one other thing about my  
10 understanding of the PAGs.

11 JACK FOSTER: Okay.

12 DON COOL: The PAGs are a cumulative dose.  
13 And so from my perspective not knowing where EPA would  
14 be on it, if it was a set of things which even over a  
15 number of weeks would get you up to a PAG trigger level,  
16 then that probably would be okay.

17 But then the question would be what's the  
18 trigger level. Is it the PAG 1 REM thyroid dose. Exactly  
19 what it is. So that's part of the discussion that needs  
20 to happen.

21 JACK FOSTER: Oh, yes. And also are there  
22 incremental actions.

23 DON COOL: And are there incremental actions  
24 (indiscernible, possibly \*).

25 JACK FOSTER: I mean, how does that work.

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1 I'm not sure.

2 DON COOL: -- and eventually get there.  
3 And how do you play that because, you know, the real  
4 problem here which they were acknowledging, we don't  
5 bloody know whether there's radio nuclides coming off  
6 of a plant still or not. We do not know. They don't  
7 know, and if they know they're not telling us.

8 JACK FOSTER: Okay. Hey, well Don, just  
9 to kind of ask a different subject. I sent you a package.  
10 Bobby had asked for some information and I think I've  
11 answered the mail on that, sent a fax into the HOO a  
12 couple of hours ago. Please make sure Bobby gets it  
13 and I hope that's what he was asking for.

14 JOHN TAPPERT: He's not here yet, but he  
15 should be coming in here.

16 DONCOOL: John's got it, he'll pass it along.  
17 I'm not sure whether Bobby --

18 JACK FOSTER: Okay. And if you take a look  
19 at, I think it's data associated with what type of, God  
20 I can't remember what he was asking for, but it was actually  
21 whether the government used the HOO, World Health  
22 Organization, or some other agency to do some of their  
23 regulation.

24 And then the second part was is we're kind  
25 of ingestion type monitoring data that we had for, you

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1 know, Lisa Green's (phonetic) substances and milk. So,  
2 I got that from the DOE folks. And the main thing to  
3 take out of that is that there's actually an Internet  
4 link that if that's the data he wants, he can get it  
5 real-time, okay? I just sent an email to PMT12 to outline  
6 that.

7 DON COOL: Okay.

8 JACK FOSTER: Okay. So make sure he gets  
9 that email, too. And yes, 3:00, you know, we have that  
10 meeting, but we also have a daily meeting at 4:00.

11 So depending on how this 3:00 meeting goes,  
12 I mean, most of the stuff that at least I'm involved  
13 with with you guys and you're involved with with me for  
14 updates would be covered probably at the 3:00 meeting.

15 So I'm not sure if we need a 4:00 meeting. I guess  
16 we can nail that down as we get closer, okay John?

17 JOHN TAPPERT: I'm just getting here, bud.

18 So 3:00 your time, right?

19 JACK FOSTER: Right, right. And then we  
20 have a standing 4:00 meeting with the PMT RST. You know,  
21 the Japan Team has established, I think, through the  
22 liaison office that we have a 4:00 daily meeting.

23 JOHN TAPPERT: Okay.

24 JACK FOSTER: And all I'm saying is that  
25 if we have 3:00 meeting and we've already met for two

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1 hours, it may not be necessary to have a 3:00 meeting  
2 for the PMT side and then a 4:00 meeting.

3 DON COOL: Yes. It may well be that most  
4 of the PMT issues have been discussed and you just need  
5 the Reactor Team.

6 JACK FOSTER: Exactly.

7 DON COOL: (Indiscernible, possibly \*) John  
8 has to get close.

9 JACK FOSTER: And I think the biggest item  
10 one on the ticket right now at least for our interaction  
11 is this liaison thing that we're doing right now.

12 DON COOL: Yes, I agree.

13 JACK FOSTER: Okay. So Don, I appreciate  
14 all the help and John, you know, thanks for coming online  
15 and we'll be talking. You got my contact information  
16 if you need anything. If you send something to me, I'll  
17 try to get right back to you.

18 JOHN TAPPERT: Well Jack, you got a minute?

19 JACK FOSTER: Sure.

20 JOHN TAPPERT: So Don was just kind of  
21 briefing me on the phone call. So we just wanted to  
22 stay on and just be able to chime in and add on as necessary  
23 about --

24 JACK FOSTER: Okay.

25 JOHN TAPPERT: -- what we're going to talk

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1 about for 2:00 for instance. I mean, he was sharing  
2 some of the concerns that the Navy was having with  
3 cumulative iodine exposure. Is that what we're going  
4 to talk about?

5 JACK FOSTER: Yes, pretty much. It would  
6 be 2:00 your time, yes right, 3:00 my time. Yes.  
7 Essentially I don't have my notes in front of me, but  
8 essentially they are ramping up their monitoring, their  
9 air sampling. And they feel like that the time  
10 extrapolated exposure for the iodine is not what we  
11 originally thought it was.

12 And what we originally thought it was was  
13 based on some of the AMS, the Air Monitoring System that  
14 the DOE does. I mean if you look at those charts, you  
15 know, where it has the map, it has mostly green and then  
16 a few speckles of yellow or orange.

17 And that's sort of misleading because the  
18 green is not necessarily time extrapolated or actually  
19 it's just instantaneous, you know, monitoring ground  
20 level. And it may not take into account other factors.

21 So the Navy's considering issuing a letter  
22 to their personnel at the bases, some of the bases that  
23 may be affected by this that would basically state, you  
24 know, a shelter and place type situation. You know what  
25 I'm saying?

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1           And the problem with that is that for one  
2 thing the Japanese do not have that. You know, they  
3 haven't gone to that threshold of protective actions.

4           And the second thing is that the Embassy  
5 has not either, you know, or is not considering it because  
6 of, according to the HQ PMT and also here at Embassy  
7 and DOE here at the Embassy, we feel like that it's kind  
8 of on the low side to be reacting to it.

9           JOHN TAPPERT: Yes.

10          JACK FOSTER: And that's based on, you know,  
11 some information that was actually email that PMT  
12 Headquarters sent out here that basically says that it's  
13 one decade or one order of magnitude below the EPA standards.

14          But, you know, there's been some discussion today, we're  
15 sort of merging on that a little bit.

16          But the bottom line is that there's three  
17 major things that we kind of decided that we need to  
18 take action or go forward on. One of them is sort of  
19 an early warning system that we could figure out how  
20 we could monitor it, you know, in the early stages of  
21 a burst or release or something like that to where we  
22 could implement any type of protective actions in time.

23          Okay?

24          You know, essentially we're talking about  
25 additional cams and we already have a lot of monitoring

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1 placed right now. But I think the idea is to have, you  
2 know, a full service type of monitoring system and we  
3 need to do some additional work. Naval Reactors is going  
4 to supply some of the resources or assets associated  
5 with that.

6 I think that according to the group there,  
7 they would like us as the NRC to look into what we can  
8 do, and that would be in the way of working probably  
9 or handing some ideas off to INPO. Now if INPO's here,  
10 that won't be too hard. I'm not sure of the path forward  
11 on that, but that's not a big deal.

12  
13  
14  
15 (b)(5)  
16  
17  
18  
19

20  
21  
22 (b)(5)  
23  
24  
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1 And the third part is protocol. And you  
2 guys don't have to worry about that, we have a Embassy  
3 state guy here. But, you know, the main thing is the  
4 protocol to make sure we're able to communicate  
5 effectively the information and the decision and the  
6 thresholds associated with any change. Okay?

7 JOHN TAPPERT: Yes. So we have data from  
8 NR?

9 JACK FOSTER: Yes. You should have on PMT12  
10 I think it is, three emails that was probably provided  
11 just a little while ago, maybe a couple of hours ago.  
12 Then I think that even --

13 DON COOL: Yes, Jack, who sent that because  
14 we got to scroll back on the, because I think it was  
15 from Kelso (phonetic).

16 JACK FOSTER: Yes, Don, Kelso. And then,  
17 you know, if you look back. And I know that it sounds  
18 wacky and I'll try to find the day time group or the  
19 data, but there was also an email that you guys sent  
20 us I think yesterday or maybe yesterday or the day before,  
21 I think it was yesterday. But it's sort of a response  
22 to where we thought we were at with --

23 JOHN TAPPERT: Because at that point, I think  
24 we only had one air sample is my collection.

25 JACK FOSTER: Exactly, exactly. So you

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1 should have an additional, you know, box of data to rummage  
2 through. And if that's not enough, let me know. And  
3 even if it is enough, you're probably going to get more,  
4 you know, because they're trying to do some continuous  
5 monitoring there.

6 And if you have any questions about the  
7 assumptions, do not hesitate to email me back along with  
8 Kelso, okay?

9 JOHN TAPPERT: Yes. Now are they showing  
10 significant levels or just detectable or what are we  
11 --

12 JACK FOSTER: You know, I haven't even had  
13 a chance to look at the data to be honest with you.

14 DON COOL: Jack, this is Don Cool for a second  
15 on that. I think one of the biggest challenges is going  
16 to be getting a handle on that data and keeping it summarized  
17 and organized and plotted out so that we can actually  
18 do something with it. We needed to get to the step of  
19 having monitoring data.

20 Now that it's starting to suddenly pour in,  
21 we're going to have figure out a way to work on handling  
22 that and organizing it in a way that we can understand  
23 it and you can understand it and --

24 JACK FOSTER: I agree.

25 DON COOL: -- know how we're exchanging it

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1 back and forth.

2 (Crosstalk)

3 DON COOL: This is only, you've just opened  
4 the flood gate which means if the flood gate opened,  
5 what about two hours ago.

6 JACK FOSTER: Exactly. And, you know, I've  
7 been trying to get my hand on the facuet so I can open  
8 that flood gate since I've been here to be honest with  
9 you.

10 DON COOL: Okay. You just knocked me off  
11 my feet. We're swimming.

12 JACK FOSTER: Okay. Well look, you've got  
13 my number and my email. I keep my Blackberry by my side.  
14 So John, let me know if you need anything. And Don,  
15 I appreciate everything.

16 DON COOL: Okay. You hanging in there?

17 JACK FOSTER: Yes. I should be back in the  
18 States probably next Monday or so.

19 DON COOL: Okay. Take care buddy.

20 JACK FOSTER: So we'll talk then, okay?

21 DON COOL: All right.

22 JACK FOSTER: Bye bye.  
23  
24  
25

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