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**NUCLEAR REGULATORY COMMISSION**

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 THURSDAY

7 MARCH 17, 2011

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: The team over there  
3 copying, they're (inaudible) NRC be mailed now, or are  
4 they -- how are we getting them?

5 MALE PARTICIPANT: I don't know. I  
6 haven't heard. That's a good question. They were  
7 setting up computers when we were here yesterday,  
8 so --

9 MALE PARTICIPANT: Okay. Are they  
10 (inaudible)?

11 MALE PARTICIPANT: (Inaudible.)

12 MALE PARTICIPANT: Yes. Well, maybe  
13 somebody knows that. Let me --

14 MALE PARTICIPANT: Yes, I think I've Green  
15 Card. I believe I have that on my iPad. I remember  
16 that. They don't have the pressure on here. They  
17 won't (inaudible). The one I have on here is .101  
18 (inaudible). I'm not sure we (inaudible). One psi  
19 equals (inaudible) .006 (inaudible), .007.

20 MALE PARTICIPANT: .007 pascal  
21 (inaudible).

22 MALE PARTICIPANT: (Inaudible) 145 psi  
23 equals (inaudible). So I (inaudible) reactor pressure  
24 (inaudible).

25 MALE PARTICIPANT: Was that a negative?

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1 MALE PARTICIPANT: .17 times 145.

2 MALE PARTICIPANT: .17 is negative  
3 (inaudible).

4 MALE PARTICIPANT: .17 divided .0068.

5 MALE PARTICIPANT: 170 (inaudible).

6 MALE PARTICIPANT: This is 25 -- 24.6 psi  
7 (inaudible).

8 MALE PARTICIPANT: And .043 pascal.

9 MALE PARTICIPANT: .043 is (inaudible).

10 MALE PARTICIPANT: 6.2 psi (inaudible).

11 MALE PARTICIPANT: (Inaudible.)

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: That's 12.7.

14 MALE PARTICIPANT: Pressure is -- pressure  
15 is (inaudible).

16 MALE PARTICIPANT: Okay. (Inaudible.)

17 MALE PARTICIPANT: I've got an e-mail here  
18 that has pressure, core pressures for Units 1 and 2  
19 (inaudible). And if we're converting them, here it's  
20 25 psi, 6 psi, and 12-1/2 psi.

21 MALE PARTICIPANT: Okay. (Inaudible.)

22 MALE PARTICIPANT: Yeah, it's the first  
23 time I've heard those numbers.

24 MALE PARTICIPANT: (Inaudible.)

25 MALE PARTICIPANT: (Inaudible.)

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1 MALE PARTICIPANT: Where is this pressure?

2 MALE PARTICIPANT: They're core pressures.

3 MALE PARTICIPANT: Okay. So they're  
4 staying in that (inaudible) pascal?

5 MALE PARTICIPANT: Yeah. It's stated in  
6 megapascals that -- oh, here we go. They're stated in  
7 megapascals as .17, .043, and .088 megapascals. Can  
8 they get a few more copies of that?

9 MALE PARTICIPANT: Yeah.

10 MALE PARTICIPANT: Is that --

11 MALE PARTICIPANT: No, I've got --

12 MALE PARTICIPANT: Those are the pressures  
13 or --

14 MALE PARTICIPANT: This is -- and they've  
15 got rad levels here, too. And they're data. They're  
16 (inaudible) Unit 5 spent fuel pool at 149 degrees,  
17 Unit 6 spent fuel pool at 137 degrees.

18 MALE PARTICIPANT: Fahrenheit or --

19 MALE PARTICIPANT: Fahrenheit, yes.  
20 Unit 4 measured at 183 Fahrenheit on the 15th.

21 MALE PARTICIPANT: Yeah.

22 MALE PARTICIPANT: On the 16th, they got  
23 (inaudible).

24 MALE PARTICIPANT: Oh, yeah, I've seen  
25 that. Do you know what our efforts are -- what an

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1 update of our efforts might (inaudible)?

2 MALE PARTICIPANT: Yeah.

3 MALE PARTICIPANT: Of course, this is the  
4 infamous diagram.

5 MALE PARTICIPANT: Okay. (Inaudible.)

6 MALE PARTICIPANT: Pump it out of the  
7 ocean?

8 MALE PARTICIPANT: Yes, yeah. Now, is  
9 that what they are doing with the water canning, or is  
10 that something we are trying to get to?

11 MALE PARTICIPANT: They are copying their  
12 (inaudible).

13 MALE PARTICIPANT: No, this is not -- this  
14 is the system that the NRC is coordinating to try to  
15 put onsite --

16 MALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: -- to pump water into  
18 the spent fuel pool.

19 MALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: These systems.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: But before (inaudible)  
23 of the system. We're working with Bechtel. Like I  
24 said, this is so completely out of the box.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: I can't even begin to  
2 tell you.

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: We are working with  
5 Bechtel and GE --

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: -- Hitachi. Bechtel is  
8 really the prime contractor. Okay? We got some  
9 parts, some pumps delivered to Yokota, Japan. I don't  
10 know where they are. They got on a (inaudible). The  
11 Self-Defense Forces left Yokota at 6:00, 6:00 a.m.  
12 yesterday Japanese -- Japan time.

13 MALE PARTICIPANT: We lost (inaudible).

14 MALE PARTICIPANT: Say again?

15 MALE PARTICIPANT: We lost the  
16 (inaudible).

17 MALE PARTICIPANT: Okay. So it looks like  
18 it's now 1:00. Okay. So it's now 1:00. It's 196  
19 miles from Yokota Air Base to Fukushima. Okay? We  
20 don't know where this guy is. We're trying to locate  
21 the drivers of this -- these trucks. What we've done  
22 is take our line drawings, take the procurement  
23 documents that we got in the Navy, provided those to  
24 Bechtel. Bechtel is doing a delta analysis.

25 Okay. Here is the pumps. What is

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1 missing? Trying to figure out, okay --

2 MALE PARTICIPANT: Connect all this up for  
3 the --

4 MALE PARTICIPANT: -- so we can connect  
5 all this up, find out what's missing, locate the parts  
6 with redundant parts to make sure that there is no  
7 fit-up problem, and deliver it to some staging area  
8 outside the nuclear plant.

9 Once that happens, GE likely has access in  
10 Japan, will translate and help, as the Bechtel folks  
11 put this thing together in a staging area. The GE  
12 people, who are now on the phone with Bechtel, will be  
13 translating or help translate and instruct the  
14 Japanese folks on how to operate the system.

15 The things we said was it's got to be dose  
16 -- you know, it's got to be on tractor-trailers,  
17 minimum disconnect. You drive the tractor-trailers  
18 into the site. We ask the PMT to give us a -- to get  
19 a dose map of the site, so we have some idea of the  
20 health effects of the people who are going to operate  
21 these things.

22 They would drive in, hook this thing up,  
23 throw the portable submersible pump out in the ocean,  
24 and light this system off and leave.

25 MALE PARTICIPANT: Yes. So that dose map

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1 is something you guys asked for, not --

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: -- not something the  
4 Chairman asked for.

5 MALE PARTICIPANT: No. No.

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: No.

8 MALE PARTICIPANT: (Inaudible) GSS.

9 MALE PARTICIPANT: Yes. It's what we  
10 need, so we can design -- do the designs of the  
11 system. And we are going to take this information and  
12 give it to Bechtel.

13 MALE PARTICIPANT: What about fuel?

14 MALE PARTICIPANT: We are also working to  
15 get fuel.

16 MALE PARTICIPANT: And how do you  
17 (inaudible) once you've taken it down for the --

18 MALE PARTICIPANT: Right. Right. We are  
19 -- in addition, we are also -- there's a section here,  
20 deducted to add boron. So there is -- Vandenberg Air  
21 Force Base is boron, 20,000 pounds of boron, from  
22 Diablo Canyon, they were going to put on a plane and  
23 fly to Yokota.

24 MALE PARTICIPANT: How does that get into  
25 a place where that boron is helping --

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1 MALE PARTICIPANT: There is supposed to be  
2 an inductor right there --

3 MALE PARTICIPANT: Okay.

4 MALE PARTICIPANT: -- that is supposed to  
5 suck this stuff out of the barrel that it's going to  
6 come in.

7 MALE PARTICIPANT: It's coming in in a  
8 liquid form?

9 MALE PARTICIPANT: Actually, I don't know  
10 that.

11 MALE PARTICIPANT: But they're going to  
12 have to mix it.

13 MALE PARTICIPANT: That's what -- this is  
14 what Bechtel is going to do. Like I said, Bechtel --  
15 we have these guys. We said, "Get people up. Get  
16 them working on this system. It don't matter." And  
17 they're doing it right now.

18 MALE PARTICIPANT: Do we have a sense of  
19 the relative importance of the boron versus the water?  
20 Is boron lagging?

21 MALE PARTICIPANT: Yeah.

22 MALE PARTICIPANT: Can we tell within --

23 MALE PARTICIPANT: Yes, yes.

24 MALE PARTICIPANT: -- could the boron get  
25 water in it?

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1 MALE PARTICIPANT: Yes. Yes.

2 MALE PARTICIPANT: Boron -- water without  
3 boron is better than no water at all.

4 MALE PARTICIPANT: Like I said, this is  
5 nothing that I have ever done. This is not what  
6 regulators do.

7 MALE PARTICIPANT: No. But we're not in  
8 the normal regulatory --

9 MALE PARTICIPANT: Yes, sir. Okay?

10 MALE PARTICIPANT: And is somebody talking  
11 to them about the needs of the -- you know, the width  
12 of the path of -- that they drive these things on?  
13 Because somebody is going to have to clear the path  
14 probably, right? You've got explosions that have  
15 covered the road, and all that kind of stuff. You  
16 know, is it a 10-foot wide path, or a 20-foot wide  
17 path?

18 MALE PARTICIPANT: Well, that -- see,  
19 because it has been seven hours, and, you know, they  
20 have been driving for -- you know, it's less than a  
21 three-hour drive. So basically road-clearing is what  
22 you're asking about.

23 MALE PARTICIPANT: Just -- yeah.

24 MALE PARTICIPANT: (Inaudible.)

25 MALE PARTICIPANT: Onsite. They

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1 (inaudible) even, you know, nearby, because they have  
2 a path to get there once they drive the trucks up into  
3 the area. I mean, we know that the reactor buildings  
4 are blown apart, and there is debris all over the  
5 place.

6 MALE PARTICIPANT: No, that's good.  
7 That's good. So we're thinking of how many of those  
8 systems?

9 MALE PARTICIPANT: Four.

10 MALE PARTICIPANT: So you get the height  
11 and the elevation, so you know how many boots  
12 (phonetic) are functioning to get it from there to  
13 there to there.

14 MALE PARTICIPANT: You know they are  
15 (inaudible) four for the pool.

16 MALE PARTICIPANT: No, these are for the  
17 pool.

18 MALE PARTICIPANT: For the pool.  
19 (Inaudible.)

20 MALE PARTICIPANT: All four pools.

21 MALE PARTICIPANT: I imagine there's  
22 (inaudible) than that, because they are (inaudible).

23 MALE PARTICIPANT: Right. But --

24 MALE PARTICIPANT: Yeah.

25 MALE PARTICIPANT: -- at this stage --

1 MALE PARTICIPANT: Yes, I know they  
2 (inaudible).

3 MALE PARTICIPANT: Once we get the stuff  
4 onsite, you can -- at the very least, you might be  
5 able to load it up, have the thing operate for a  
6 while, go back, load it up again, right, move --

7 MALE PARTICIPANT: Absolutely.

8 MALE PARTICIPANT: Yeah. I mean, you're  
9 going to have -- it's going to be heroic efforts,  
10 because you're going to have somebody running toward  
11 the pool.

12 MALE PARTICIPANT: And hooking up a hose  
13 somewhere. Or is it just spray -- the design here at  
14 the end is just --

15 MALE PARTICIPANT: Yeah. What we're --  
16 you know, Bechtel has got -- they should be on the  
17 phone again with us with a series of questions.

18 MALE PARTICIPANT: Now, this is unrelated  
19 to water cans.

20 MALE PARTICIPANT: Oh, yeah. The water  
21 cans, yes, right, unrelated to the water cans.

22 MALE PARTICIPANT: Why is it unrelated to  
23 the water cans? You know, I'm thinking in the  
24 water --

25 MALE PARTICIPANT: This is a separate --

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1 this is a separate effort.

2 MALE PARTICIPANT: This is in addition to  
3 the water --

4 MALE PARTICIPANT: The Chairman said this  
5 is our top priority.

6 MALE PARTICIPANT: This thing.

7 MALE PARTICIPANT: (Inaudible) three hours  
8 (inaudible).

9 MALE PARTICIPANT: Oh, yeah. Right,  
10 right, right, right, right. As a matter of fact,  
11 they --

12 MALE PARTICIPANT: There is a comment over  
13 here of a little bit of water would be worse by just  
14 creating more zirc water reaction without, you know,  
15 (inaudible) the fuel. So have we -- have we come to  
16 that decision of what's the best path for (inaudible)?  
17 It's not clear to me that we have --

18 MALE PARTICIPANT: This looks like --

19 MALE PARTICIPANT: -- on water (inaudible)  
20 I think maybe focuses on --

21 MALE PARTICIPANT: -- unknown sender.

22 MALE PARTICIPANT: -- (inaudible)  
23 electricity.

24 MALE PARTICIPANT: (Inaudible.)

25 MALE PARTICIPANT: That's a good question.

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1 Can we have -- can we dig back in our records and see  
2 what came back from that NISA/TEPCO meeting?

3 MALE PARTICIPANT: Sure. (Inaudible) talk  
4 about.

5 MALE PARTICIPANT: Huh? What?

6 MALE PARTICIPANT: It says Official Use  
7 Only. Can I -- I want to send this to Z (phonetic).

8 (Multiple inaudible speakers.)

9 MALE PARTICIPANT: It says Official Use  
10 Only, but if these guys are designing the system,  
11 maybe -- so I can't send this to GE.

12 MALE PARTICIPANT: Is there -- how will we  
13 -- if we are giving something to Bechtel to design, I  
14 don't even know for sure who that came from.

15 MALE PARTICIPANT: This is the Navy. It  
16 has U.S. Navy. This is -- and I would say this is  
17 naval --

18 MALE PARTICIPANT: (Inaudible.)

19 MALE PARTICIPANT: This is naval reactor.

20 MALE PARTICIPANT: I mean, it reads to me  
21 like it's Naval Reactors, but I can't --

22 MALE PARTICIPANT: Yeah. No, I --

23 MALE PARTICIPANT: You're looking at the  
24 "to" block.

25 MALE PARTICIPANT: Yes, Tom Roberts, to

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1 Tom Roberts and VASA (phonetic). These are the Naval  
2 Reactors guys that are here.

3 MALE PARTICIPANT: Okay. That are here?  
4 I didn't realize we had people here. And it's being  
5 sent from somewhere else in Naval Reactors?

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Then, ask those guys  
8 here if we can share it with (inaudible).

9 MALE PARTICIPANT: So --

10 MALE PARTICIPANT: What's this thing?

11 MALE PARTICIPANT: -- I mean, if we're  
12 asking them to --

13 MALE PARTICIPANT: Well, I don't want to  
14 get (inaudible).

15 MALE PARTICIPANT: That's a status that  
16 was e-mailed in from the -- I think it's -- I'm  
17 reading it as being like Japanese NEI in Washington,  
18 the Federal of Electric Power Companies of Japan. But  
19 they're down on L Street in Washington.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: I mean, that would --  
22 e-mailed midday yesterday.

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: So what I'll do with  
25 this, I'll turn this over to Mike, Reactor Safety

1 Team, and let -- ask him to evaluate this about the  
2 advisability of using sand versus water based on this  
3 review.

4 MALE PARTICIPANT: Yeah.

5 MALE PARTICIPANT: Speak of the devil.

6 MALE PARTICIPANT: Speak of the devil.

7 MALE PARTICIPANT: (Inaudible.) Oh, yes.

8 No, that's what I wanted to (inaudible), but thank  
9 you for (inaudible).

10 (Laughter.)

11 This is what our colleagues from Naval  
12 Reactors sent David. Okay? And this is about whether  
13 you stick sand on it or not.

14 MALE PARTICIPANT: This is --

15 MALE PARTICIPANT: They had talked to me  
16 and said they were going to send us an analysis to say  
17 -- the, you know, sand versus water argument. This is  
18 their technical argument about this. And if you read  
19 it, it's -- I think it's sand. So, but it says sand  
20 first and then water.

21 (Inaudible) the spent fuel pool bundles  
22 with (inaudible). Two, deliver (inaudible) poised to  
23 prevent criticality. Cooling water is bundled. So  
24 there is (inaudible).

25 So what we might want to do -- I had asked

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1 -- you know, we've got to evaluate this, and right or  
2 not, and, if necessary, try to procure the sand, put  
3 the sand in first, then the water.

4 FEMALE PARTICIPANT: This is what we came  
5 up with. We have a NUREG that (inaudible) says that  
6 -- that this is what we've had. That's not new  
7 information. That's --

8 MALE PARTICIPANT: Right.

9 FEMALE PARTICIPANT: -- also what our fire  
10 people have been telling us every day, saying that --

11 MALE PARTICIPANT: The key word is --

12 FEMALE PARTICIPANT: -- this is analysis  
13 that we did for decommission of the spent fuel pool,  
14 and that was what the answer was: sand.

15 MALE PARTICIPANT: And it's not like  
16 there's not sand around there that (inaudible).

17 MALE PARTICIPANT: Yes, probably  
18 (inaudible). But our reactor safety people have to  
19 come up with a decision about yes or no.

20 MALE PARTICIPANT: Well, yeah. I mean, if  
21 you guys are doing this, and we're -- and then we're  
22 saying sand is the right thing, then maybe --

23 MALE PARTICIPANT: Well, no, no. It's not  
24 sand.

25 FEMALE PARTICIPANT: This is in the

1 interim.

2 MALE PARTICIPANT: It's sand, then water.

3 FEMALE PARTICIPANT: Then water.

4 MALE PARTICIPANT: And what (inaudible) is  
5 that?

6 MALE PARTICIPANT: And it's what we've  
7 said.

8 FEMALE PARTICIPANT: We've been saying it  
9 for three days, that we need to get sand.

10 MALE PARTICIPANT: Over top.

11 FEMALE PARTICIPANT: Over top, because it  
12 smothers it and provides shielding, you know, all --

13 MALE PARTICIPANT: Have we heard back from  
14 the folks over in Japan about that? (Inaudible)  
15 checking back in the log to see if there's any --

16 MALE PARTICIPANT: When we left this  
17 morning, Moninger (phonetic) had gone to meet with  
18 (inaudible) at TEPCO to talk about the (inaudible)  
19 after we left shift (inaudible).

20 FEMALE PARTICIPANT: That was the list we  
21 put together at 6:30 --

22 MALE PARTICIPANT: Right.

23 FEMALE PARTICIPANT: -- this morning.

24 MALE PARTICIPANT: So you know what -- you  
25 understand what --

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1 FEMALE PARTICIPANT: Sand, clay --

2 MALE PARTICIPANT: -- project.

3 MALE PARTICIPANT: Right.

4 FEMALE PARTICIPANT: -- (inaudible) sand.

5 MALE PARTICIPANT: Exactly.

6 MALE PARTICIPANT: And if it's sand, then  
7 you've got to get the sand there.

8 MALE PARTICIPANT: And we actually scanned  
9 an e-mail from that one page out of the NUREG that --

10 FEMALE PARTICIPANT: Right.

11 MALE PARTICIPANT: -- all of that stuff.

12 FEMALE PARTICIPANT: Right. Our NUREGS  
13 are (inaudible) that option. We sent that to them at  
14 6:30 yesterday.

15 MALE PARTICIPANT: Sent that to who?

16 MALE PARTICIPANT: Sent that to Moninger  
17 to go into his meeting with -- with TEPCO.

18 FEMALE PARTICIPANT: Yes.

19 MALE PARTICIPANT: Okay. But what is  
20 surprising is we were on a phone call with them, and  
21 they were saying water, not sand.

22 FEMALE PARTICIPANT: I'm just telling you  
23 what our recommendation was yesterday at 6:30 was  
24 sand. That's what --

25 MALE PARTICIPANT: It sounds like you need

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1 to get on the phone with them and hash this out.

2 MALE PARTICIPANT: That's why -- that's  
3 part of why I'm asking for information, because --

4 MALE PARTICIPANT: Hash it out with the  
5 people in country.

6 MALE PARTICIPANT: Yes.

7 FEMALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: With Moninger and  
9 Altsin (phonetic) and --

10 MALE PARTICIPANT: The going-in question  
11 was Moninger had called us up and said, "We're going  
12 to meet with them in 45 -- we're leaving in 45  
13 minutes."

14 FEMALE PARTICIPANT: Right.

15 MALE PARTICIPANT: "And what they've told  
16 us is" -- and that's where we got that Unit 4 was dry  
17 was from that conversation, and that this was -- you  
18 know, you've got a dry pool again, no water.

19 FEMALE PARTICIPANT: And we called back to  
20 NRR's (inaudible). As a matter of fact, I think we  
21 called all of them. We robo-dialed (phonetic) them  
22 yesterday, and every single one of them, the first  
23 thing that came out of their mouth was "sand."

24 And that's also consistent with NUREG-  
25 1333, which we have, but it specifically deals with

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1 disasters for spent fuel pools. I mean, I like that  
2 analysis, but that's not telling us anything we don't  
3 already know.

4 MALE PARTICIPANT: And we use this as  
5 confirmation.

6 FEMALE PARTICIPANT: Right.

7 MALE PARTICIPANT: Well, the question is,  
8 it's great that we're working on these pumps in the  
9 water and boron, get somebody working on sand.

10 MALE PARTICIPANT: Right. Japanese  
11 (inaudible).

12 FEMALE PARTICIPANT: That was our next  
13 (inaudible) is call and --

14 MALE PARTICIPANT: And you need to get  
15 sand.

16 MALE PARTICIPANT: What's the story on  
17 fuel? (Inaudible.)

18 MALE PARTICIPANT: Yes. Talk to Scott.  
19 Scott is working on the fuel --

20 FEMALE PARTICIPANT: No, he just pointed  
21 to you.

22 MALE PARTICIPANT: No, Scott --  
23 (Laughter.)

24 FEMALE PARTICIPANT: He's got your name to  
25 buy fuel.

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1 MALE PARTICIPANT: Buy fuel?

2 FEMALE PARTICIPANT: Yes, it --

3 MALE PARTICIPANT: What's the general  
4 story on fuel? Has fuel been a problem to this point?  
5 Or has fuel not even come up to this point?

6 MALE PARTICIPANT: No, no.

7 MALE PARTICIPANT: There has been a lot of  
8 talk about --

9 MALE PARTICIPANT: We know you can't get  
10 the fuel to the diesel generators, right? I mean, the  
11 fuel that they had is gone, right? Is that one of the  
12 problems --

13 MALE PARTICIPANT: Right.

14 MALE PARTICIPANT: -- we're (inaudible)?  
15 So it -- I'm just making --

16 MALE PARTICIPANT: The guys in country  
17 were supposed to be doing it.

18 MALE PARTICIPANT: Jim Trapkin (phonetic).

19 MALE PARTICIPANT: Right. That's right,  
20 that's right.

21 MALE PARTICIPANT: Jim Trapkin is working  
22 on that.

23 MALE PARTICIPANT: Yes. Now I know why I  
24 wasn't (inaudible) reporting to me. I'm thinking --

25 FEMALE PARTICIPANT: You ask the contact

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1 (inaudible).

2 MALE PARTICIPANT: Oh, okay.

3 MALE PARTICIPANT: Moninger works on the  
4 trucks. You know that's the trucking (inaudible)?

5 MALE PARTICIPANT: We keep asking them,  
6 but you've got to go back to them again about the  
7 trucks.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: No, no, I'm just  
10 saying, I -- it's been a long day. It's no longer the  
11 same day, actually.

12 FEMALE PARTICIPANT: All right.  
13 (Inaudible.) Who is my other friend there?

14 MALE PARTICIPANT: Mark.

15 MALE PARTICIPANT: Get him to read this.  
16 Whatever structural engineer we've got from NRR, wake  
17 him up and --

18 MALE PARTICIPANT: No, no, he's there.  
19 We've got a structural engineer. He's --

20 FEMALE PARTICIPANT: That's the tall guy.

21 MALE PARTICIPANT: The tall guy. He is  
22 here.

23 FEMALE PARTICIPANT: I'll make a copy and  
24 give it to the tall guy.

25 MALE PARTICIPANT: Get him to read that

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1 and see if we're on the right path.

2 MALE PARTICIPANT: Well, let's get sand in  
3 there.

4 MALE PARTICIPANT: Okay. Where the hell  
5 am I going to get sand?

6 MALE PARTICIPANT: If we get USFJ  
7 involved, and let them get the sand, I mean --

8 MALE PARTICIPANT: Get nice sand and  
9 forward it to Japan.

10 MALE PARTICIPANT: So the military -- let  
11 the military guys solve that problem.

12 MALE PARTICIPANT: (Inaudible.)

13 MALE PARTICIPANT: He's got a --

14 MALE PARTICIPANT: Well, our liaison team  
15 has got connections --

16 MALE PARTICIPANT: Make contact.

17 MALE PARTICIPANT: -- with them, and say,  
18 "We believe" -- I mean, if we as a -- if we're  
19 recommending sand first, then we need to tell them --

20 MALE PARTICIPANT: To get it. It's going  
21 to take a while to get it.

22 MALE PARTICIPANT: Sand is going to be a  
23 lot easier to get than -- we've just got to get it in  
24 there.

25 MALE PARTICIPANT: Yeah.

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1 MALE PARTICIPANT: Getting it in there is  
2 the question. Is it possible (inaudible)?

3 MALE PARTICIPANT: Let's think about it.  
4 I mean, are those -- do those (inaudible) buckets that  
5 drop -- how do they drop water? Can they dump sand  
6 the same way they dump water?

7 MALE PARTICIPANT: The other problem is,  
8 we've got to put a hole in --

9 MALE PARTICIPANT: You need to go to  
10 someone. You need to drop it somewhere in --

11 MALE PARTICIPANT: There's a hole in one  
12 of the units --

13 MALE PARTICIPANT: I don't know.

14 MALE PARTICIPANT: -- in the Unit 4 -- no,  
15 not Unit 4. Unit 4 you don't have to worry about.  
16 It's Unit 2 that you've got to put the hole in.

17 MALE PARTICIPANT: Oh, okay. Great.  
18 Thanks.

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: (Inaudible.)

21 MALE PARTICIPANT: You've got extra people  
22 out there. I mean, somebody could be working on the  
23 sand problem.

24 MALE PARTICIPANT: Okay, I'll get on it.

25 MALE PARTICIPANT: Well, we only need the

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1 sand for Unit 4 as of last (inaudible).

2 MALE PARTICIPANT: Well --

3 MALE PARTICIPANT: I would say that was  
4 the priority --

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: -- because that's what  
7 we were told was dry --

8 MALE PARTICIPANT: And Unit 4 -- sand is  
9 for Unit 4.

10 MALE PARTICIPANT: Well, the other sand,  
11 water is (inaudible).

12 MALE PARTICIPANT: Right.

13 MALE PARTICIPANT: It spews over --

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: -- and I (inaudible).

16 MALE PARTICIPANT: Well, you got something  
17 about a remote-operated helicopter that's in Pax  
18 River, and they're asking us if we want that.

19 MALE PARTICIPANT: Oh, of the -- okay.  
20 Great. (Inaudible) remote-operated for pictures?

21 MALE PARTICIPANT: Well, I can't imagine  
22 it can (inaudible). But we didn't -- we just got that  
23 report. We haven't followed up on that, but you'll  
24 have to think about that. And if --

25 MALE PARTICIPANT: That's the other

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1 question. It would be nice if we get (inaudible).

2 MALE PARTICIPANT: No, because we're going  
3 to work on --

4 (Multiple inaudible speakers.)

5 MALE PARTICIPANT: -- find out where this  
6 stuff is.

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Is that a kind of  
9 helicopter or --

10 MALE PARTICIPANT: You have (inaudible).

11 MALE PARTICIPANT: (Inaudible.)

12 MALE PARTICIPANT: Well, it says two tons,  
13 but two tons is --

14 MALE PARTICIPANT: Okay. I'm out of here.

15 MALE PARTICIPANT: Thanks. Have a good  
16 day.

17 MALE PARTICIPANT: We made progress.

18 MALE PARTICIPANT: Did we make enough  
19 progress?

20 MALE PARTICIPANT: Only time is going to  
21 tell if we made enough progress.

22 MALE PARTICIPANT: (Inaudible) markup that  
23 Chuck had said, "Four portable pumps due to arrive at  
24 Daiichi Thursday afternoon from Yokota." So that  
25 would mean anytime now.

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1 MALE PARTICIPANT: (Inaudible.)

2 MALE PARTICIPANT: Have you gotten -- in  
3 any of your interactions, have you gotten a sense of  
4 the effectiveness and continuity of communications  
5 between Tokyo and the site?

6 MALE PARTICIPANT: They're not putting  
7 that together, because they have so (inaudible).  
8 We'll find out when they do it.

9 MALE PARTICIPANT: (Inaudible) driving the  
10 truck, is that what I heard?

11 MALE PARTICIPANT: Yes.

12 MALE PARTICIPANT: Okay. (Inaudible.)  
13 It's about time for me to call (inaudible).

14 MALE PARTICIPANT: Okay. Drive careful.

15 MALE PARTICIPANT: Have a good one.

16 MALE PARTICIPANT: How do we expect to get  
17 the data? It's not coming with TNT (phonetic)?

18 MALE PARTICIPANT: It's supposed to come  
19 from (inaudible).

20 MALE PARTICIPANT: (Inaudible) plugged in,  
21 and then we get a feed from the (inaudible)?

22 MALE PARTICIPANT: Well, I heard that Web  
23 ELC (phonetic) is down, so -- we would normally get it  
24 through that. (Inaudible.)

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: This is NEI GA, NEI  
2 information, that I'm using for fuel storage at the  
3 site, is that (inaudible)?

4 MALE PARTICIPANT: (Inaudible) NEI  
5 product. They've got -- it's a whole thing on the  
6 fuel storage there, and then the (inaudible) is going  
7 to (inaudible). These are all the things that we've  
8 done. They've got digital (inaudible).

9 MALE PARTICIPANT: Yeah, yeah, yeah, yeah.  
10 That's all the things that they're doing.  
11 (Inaudible.) And this one -- but that's actually from  
12 useful data (inaudible).

13 (Multiple inaudible speakers.)

14 MALE PARTICIPANT: Perhaps. I don't know.

15 MALE PARTICIPANT: (Inaudible.)

16 MALE PARTICIPANT: Maybe that's all  
17 they're looking for is what kind of (inaudible), you  
18 know, what is the -- it's not a bad idea to think  
19 about what they're going to say.

20 MALE PARTICIPANT: All right. We're going  
21 to get the data from NARAC (inaudible). I don't know  
22 if that gets into any of the --

23 MALE PARTICIPANT: The data from NARAC  
24 you're (inaudible) when? They have a 1:00 a.m.  
25 conference call to talk about when we're going to use

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1 (inaudible).

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: I will note that they  
4 never got -- remember last night we were talking about  
5 the data from (inaudible)? It went out before they  
6 had permission.

7 MALE PARTICIPANT: Yeah.

8 MALE PARTICIPANT: NARAC never gave that  
9 to us, so communication was (inaudible). They are  
10 having this 1:00 call.

11 MALE PARTICIPANT: So NARAC -- NARAC is  
12 where? Are they in Las Vegas?

13 MALE PARTICIPANT: FRMAC (phonetic) is  
14 (inaudible).

15 MALE PARTICIPANT: Well, out in  
16 California, yes.

17 MALE PARTICIPANT: (Inaudible.)

18 MALE PARTICIPANT: Right. So how do --

19 MALE PARTICIPANT: Well --

20 MALE PARTICIPANT: I'm just trying to  
21 figure out, how does NARAC fit into the monitoring  
22 picture? Isn't NARAC the ones that do the  
23 (inaudible)?

24 MALE PARTICIPANT: (Inaudible.)

25 MALE PARTICIPANT: So they're all part of

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1 DOE? Is NARAC part of DOE?

2 MALE PARTICIPANT: It's part of  
3 (inaudible).

4 MALE PARTICIPANT: Yeah, yeah, they are  
5 part of DOE.

6 MALE PARTICIPANT: Okay. They are the  
7 part of DOE that also has the

8 MALE PARTICIPANT: So FRMAC doesn't have  
9 the (inaudible)?

10 MALE PARTICIPANT: Well, that's -- FRMAC  
11 is also part of that team.

12 MALE PARTICIPANT: Okay. NARAC is the  
13 umbrella organization. FRMAC is a subset of NARAC?

14 MALE PARTICIPANT: I think FRMAC is the  
15 (inaudible).

16 MALE PARTICIPANT: NARAC is a subset?

17 MALE PARTICIPANT: I'm guessing. I don't  
18 want to (inaudible). Yeah, they're all related to  
19 each other under GM-60 (phonetic), I think. No, no,  
20 NA-60 (phonetic), the DOE group.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: (Inaudible.)

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: So the 1:00 call is  
25 about their -- for them --

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1 MALE PARTICIPANT: The 1:00 call, I really  
2 don't know.

3 MALE PARTICIPANT: No, no, no, no, no.  
4 The 1:00 call --

5 MALE PARTICIPANT: (Inaudible) going to  
6 get the data for (inaudible).

7 MALE PARTICIPANT: -- is to ask what's  
8 going on with the (inaudible), when are we going to  
9 get the data, (inaudible).

10 MALE PARTICIPANT: (Inaudible) five hours  
11 ago.

12 MALE PARTICIPANT: Yeah. No, that's a  
13 good -- so, I mean, yeah -- I mean, that --

14 MALE PARTICIPANT: They did tell us they  
15 were going to analyze it before they gave it to us.

16 MALE PARTICIPANT: For how long?

17 MALE PARTICIPANT: That they didn't tell  
18 us. So (inaudible) quite a bit. They haven't been  
19 very close (inaudible).

20 MALE PARTICIPANT: So what about the four  
21 (inaudible)? Are we doing -- are we getting any more  
22 from them?

23 MALE PARTICIPANT: I -- yeah, that is  
24 going to be -- our version of that is going to be this  
25 extension of the (inaudible). We did ask for their

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1 assumptions (inaudible). I don't think we've gotten  
2 it. It's for them to decide (inaudible) in the course  
3 of a year from (inaudible). So, in other words,  
4 eating, drinking, a one year-old drinking from --

5 MALE PARTICIPANT: (Inaudible) that had  
6 iodine in it.

7 MALE PARTICIPANT: All right. That's a  
8 little bit different.

9 MALE PARTICIPANT: (Inaudible.)

10 MALE PARTICIPANT: It's a farmer scenario,  
11 I'm sure, where they're drinking the same cow's milk,  
12 that kind of --

13 MALE PARTICIPANT: And we don't know how  
14 the (inaudible) to get that.

15 (Multiple inaudible speakers.)

16 MALE PARTICIPANT: So we had an earthquake  
17 at a Canadian plant today, 45 miles west of Montreal,  
18 56 miles east of Ottawa. Could we stand up a team to  
19 track that one?

20 MALE PARTICIPANT: What was it, say again?

21 MALE PARTICIPANT: 3.5. Yeah, I think it  
22 was a small one.

23 MALE PARTICIPANT: Forty-five miles west  
24 of Montreal, how many miles east of Ottawa?

25 MALE PARTICIPANT: Fifty-six east of

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1 Ottawa. That's in between Ottawa and Montreal.

2 MALE PARTICIPANT: Ottawa and Montreal  
3 aren't that far apart.

4 MALE PARTICIPANT: Ottawa and Montreal  
5 aren't much farther apart than that.

6 MALE PARTICIPANT: No. Ottawa and  
7 Montreal are very close (inaudible).

8 MALE PARTICIPANT: You can fly into  
9 Montreal and drive to Ottawa. I only know that  
10 because we have a (inaudible).

11 MALE PARTICIPANT: (Inaudible.)

12 MALE PARTICIPANT: No, Ottawa is between  
13 (inaudible) and Montreal. Ottawa is on the border of  
14 Quebec and (inaudible). That's why they picked it to  
15 do that.

16 FEMALE PARTICIPANT: Yeah, it's  
17 (inaudible).

18 MALE PARTICIPANT: Must be triangular or  
19 (inaudible).

20 MALE PARTICIPANT: (Inaudible) across the  
21 lake from Ganay (phonetic), Nine Mile Point  
22 (phonetic), but they're further away than (inaudible).

23 (Multiple inaudible speakers.)

24 MALE PARTICIPANT: But I can tell you  
25 this, that if it's (inaudible), 4.3. It's 10,000

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1 times what they felt in Japan, but --

2 MALE PARTICIPANT: (Inaudible.)

3 MALE PARTICIPANT: It was 3.5, or  
4 something like that. Yeah.

5 MALE PARTICIPANT: (Inaudible) order of  
6 magnitude (inaudible).

7 MALE PARTICIPANT: (Inaudible) TEPCO. The  
8 power was out longer at TEPCO than it was in Japan.

9 MALE PARTICIPANT: Well, you ought that  
10 compare that. That would be good to compare.

11 MALE PARTICIPANT: (Inaudible) is anywhere  
12 in the (inaudible) any other team over there.  
13 (Inaudible.)

14 MALE PARTICIPANT: Do you want me to  
15 continue the search or --

16 MALE PARTICIPANT: No. (Inaudible) next  
17 time they pop in it will (inaudible).

18 MALE PARTICIPANT: One question the  
19 Chairman got today down in the hearing was, how many  
20 people died at Chernobyl? (Inaudible.)

21 (Multiple inaudible speakers.)

22 MALE PARTICIPANT: I have like 49.

23 MALE PARTICIPANT: Oh, no, because the  
24 (inaudible). Is that what the question was about?

25 MALE PARTICIPANT: No. It's how many

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1 people died?

2 MALE PARTICIPANT: Do you include like the  
3 children that died of cancer or whatever? Because  
4 then you get into (inaudible). The number is about  
5 (inaudible); 49 is (inaudible).

6 (Multiple inaudible speakers.)

7 MALE PARTICIPANT: Quick question for you.  
8 I got a call from The Financial Times. There were  
9 reports that the NRC is backing off earlier comments  
10 about the 50-mile evacuation. And (inaudible) hear  
11 anything?

12 MALE PARTICIPANT: No.

13 MALE PARTICIPANT: Is the Chairman still  
14 out there with that message (inaudible)?

15 (Multiple inaudible speakers.)

16 MALE PARTICIPANT: I just wanted to make  
17 sure you hadn't heard anything before I call this  
18 reporter back.

19 MALE PARTICIPANT: No, I have not heard  
20 anything. I think (inaudible) trying to back off on  
21 whether the (inaudible). That was the information  
22 that we -- yeah, there was talk late afternoon of the  
23 Japanese apparently denied that, and the Chairman --  
24 there was a comment I saw in one report that goes to  
25 the Chairman that is kind of like (inaudible). But

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1 that was the best information that we got from our  
2 staff in (inaudible).

3 MALE PARTICIPANT: (Inaudible) last night  
4 there was some discussion of this geometry with  
5 (inaudible).

6 MALE PARTICIPANT: I don't know about the  
7 [REDACTED] but the DOE (inaudible).

8 (Multiple inaudible speakers.)

9 MALE PARTICIPANT: [REDACTED]  
10 [REDACTED] (Inaudible.)

11 MALE PARTICIPANT: (Inaudible.)

12 MALE PARTICIPANT: Yeah. They knock down  
13 a little bit of the radiation that (inaudible).

14 MALE PARTICIPANT: If you were a pilot,  
15 how low would you go?

16 MALE PARTICIPANT: I'm just saying, it  
17 seems a little high if they're trying to put out a  
18 fire.

19 MALE PARTICIPANT: Low and fast?

20 (Laughter.)

21 MALE PARTICIPANT: Well, IAEA won't give a  
22 definitive answer to the long-term debt, because they  
23 talk about people that have committed suicide and  
24 ended up with drinking problems and --

25 MALE PARTICIPANT: Yes.

1 MALE PARTICIPANT: -- and how do you sort  
2 out the --

3 MALE PARTICIPANT: The suicidal drinking  
4 problems in the Soviet Union from the --

5 MALE PARTICIPANT: From (inaudible).

6 MALE PARTICIPANT: Yeah.

7 (Laughter.)

8 MALE PARTICIPANT: Yeah, I was really more  
9 interested in the one (inaudible), suicidal drinking  
10 problem. But I don't credit that necessarily to the  
11 plant.

12 MALE PARTICIPANT: (Inaudible.)

13 MALE PARTICIPANT: Look at the devastation  
14 of the tsunami and tell me how many of the suicidal  
15 drinking problems were (inaudible) nuclear plant  
16 versus all the rest of the devastation.

17 (Multiple inaudible speakers.)

18 MALE PARTICIPANT: All right. How are you  
19 doing tonight?

20 (Multiple inaudible speakers.)

21 MALE PARTICIPANT: The update that Chuck  
22 provided on the Tuesday (inaudible) indicates that the  
23 pumps should be arriving at the site in (inaudible)  
24 hours, Thursday afternoon at 2:00 over there. We will  
25 get some confirmation of that.

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1 And they did not (inaudible) we sent over  
2 to them for the (inaudible) ability to retain  
3 (inaudible). We (inaudible) sent that over, but they  
4 didn't change that, so -- I guess the PMT has a call  
5 right now with DOE to try to figure out when we're  
6 going to get the data from (inaudible).

7 (Multiple inaudible speakers.)  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: (Inaudible) put out  
3 this call. I wonder if we shouldn't take a look at  
4 that (inaudible).

5 MALE PARTICIPANT: (Inaudible.)

6 MALE PARTICIPANT: Did you see what -- you  
7 saw the list of things that didn't go as having  
8 (inaudible)?

9 MALE PARTICIPANT: It's an INPO SOER.  
10 It's got due dates. No, I have not seen that, but  
11 that's what these four bullets are. There's both a  
12 potential for either a smart sample (phonetic) and TI  
13 to look at the following areas. They're going to  
14 inspect their implementation of an INPO SOER?

15 MALE PARTICIPANT: It sounds like that's  
16 what we're going to (inaudible).

17 MALE PARTICIPANT: We have put out a TI  
18 that would inspect the (inaudible) implementation of  
19 the NEI guidelines on groundwater protection. This  
20 isn't so far afield of that.

21 MALE PARTICIPANT: Whether we want to wait  
22 or -- I had understood that we had a commitment that  
23 you would get to either assault (inaudible) their  
24 initiative. Did I get that wrong?

25 MALE PARTICIPANT: I didn't read it in

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1 there, but --

2 MALE PARTICIPANT: No, it was probably --  
3 it's not written in here, but I -- I thought I had  
4 heard in another conversation that -- when we were  
5 informed that they were doing this a couple of days  
6 ago that there was some conversation around, you know,  
7 they are going to get (inaudible) report and get back  
8 on the implementation --

9 MALE PARTICIPANT: Yeah, right.

10 MALE PARTICIPANT: -- of these actions,  
11 and then we would be -- have access to the results,  
12 recognizing that they do not (inaudible) if that would  
13 be enough, or if that (inaudible) would be an  
14 opportunity at least to smart sample (inaudible) what  
15 they're trying to do. It's something that we need to  
16 have spaces for our assurance that --

17 MALE PARTICIPANT: Yeah, but there was --

18 MALE PARTICIPANT: If they're all out  
19 doing the right thing --

20 MALE PARTICIPANT: Right.

21 MALE PARTICIPANT: -- well, let's not get  
22 in the way.

23 MALE PARTICIPANT: No. I agree. We can  
24 set (inaudible) without doing (inaudible).

25 MALE PARTICIPANT: Yeah.

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1 MALE PARTICIPANT: Yeah. I mean, like  
2 (inaudible).

3 MALE PARTICIPANT: Start with PWRs, then  
4 earthquake zone, and go from there.

5 MALE PARTICIPANT: Yeah.

6 MALE PARTICIPANT: And the (inaudible)  
7 they have in place from the original (inaudible)  
8 inspection.

9 MALE PARTICIPANT: Right.

10 MALE PARTICIPANT: Things that they would  
11 be less concerned about, but they want to take a look  
12 at. So you got a call from The Financial Times that  
13 they had heard something like we were backing off from  
14 the 50-mile recommendation. (Inaudible) they call us  
15 back and say no, so --

16 MALE PARTICIPANT: (Inaudible.)

17 MALE PARTICIPANT: Good.

18 MALE PARTICIPANT: (Inaudible) 9:30 last  
19 night.

20 MALE PARTICIPANT: Let's get this and  
21 everything (inaudible).

22 MALE PARTICIPANT: Do you understand what  
23 (inaudible) on top of the (inaudible)? No technical  
24 conception of what --

25 MALE PARTICIPANT: Why would they do that?

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1 Yeah.

2 MALE PARTICIPANT: Unless I guess we did  
3 hear that they thought there was going to be some  
4 zirconium interactions in the fuel pool, but they --

5 MALE PARTICIPANT: They were leaving to go  
6 talk to NISA/TEPCO. The input they got from  
7 NISA/TEPCO was that they were having a zirc water  
8 reaction.

9 MALE PARTICIPANT: Maybe they're trying to  
10 get water into the pools.

11 MALE PARTICIPANT: (Inaudible) the  
12 reaction?

13 (Laughter.)

14 They've got such a negative outlook. No,  
15 I'm just --

16 MALE PARTICIPANT: Do you know what  
17 they've done? I mean, that's (inaudible). They could  
18 vaporize, they could (inaudible).

19 MALE PARTICIPANT: It's a mess, if you've  
20 really got -- if you've really got a zirc pool.

21 MALE PARTICIPANT: (Inaudible.)

22 MALE PARTICIPANT: Well, gentlemen,  
23 (inaudible). Would you like to know what (inaudible)?

24 MALE PARTICIPANT: I'm never quite sure,  
25 Mike, but --

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1 MALE PARTICIPANT: Go ahead.

2 MALE PARTICIPANT: Well, you know, before  
3 you start, do you want to get the other -- is there  
4 time -- should we get all of the team leads assembled  
5 and --

6 MALE PARTICIPANT: Sure.

7 MALE PARTICIPANT: -- kind of want  
8 everybody here?

9 MALE PARTICIPANT: Yeah, let's do that.

10 MALE PARTICIPANT: Do you want to do that?

11 MALE PARTICIPANT: Yeah.

12 MALE PARTICIPANT: Let's round up the  
13 (inaudible).

14 MALE PARTICIPANT: You and Humphrey think  
15 alike.

16 (Laughter.)

17 I want that line. It's a great  
18 (inaudible).

19 (Laughter.)

20 MALE PARTICIPANT: Not that we didn't want  
21 a special audience just with you, but, you know, we  
22 wanted to have enough people to --

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: We're working on  
25 getting a remotely-operated (inaudible) here. We're

1 not going to get the AMS data.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: That's the (inaudible)  
4 three to four hours, but they don't even think that's  
5 realistic.

6 MALE PARTICIPANT: The plane hasn't landed  
7 yet.

8 MALE PARTICIPANT: From the first one, the  
9 plane hasn't landed?

10 MALE PARTICIPANT: That flight was  
11 supposed to be five hours ago.

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: I don't know if that's  
14 the (inaudible) the AMS is (inaudible).

15 MALE PARTICIPANT: Area Monitor -- Area  
16 Maintenance Systems out of Las Vegas.

17 MALE PARTICIPANT: Yeah, it was supposed  
18 to leave -- it was supposed to take off at 9:00,  
19 right? I'm on the phone right now with (inaudible),  
20 and they said the plane has not landed yet. Best case  
21 scenario is three to four hours, but they think that's  
22 optimistic, because they (inaudible).

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: So, I'm sorry, Gary.  
25 They're flying (inaudible) in and out?

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: Well, I think they're  
4 done and they're on the way back to land.

5 MALE PARTICIPANT: So 5:00?

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Best case.

8 MALE PARTICIPANT: Best case.

9 MALE PARTICIPANT: And you said that was  
10 when they were (inaudible).

11 MALE PARTICIPANT: They'll land within a  
12 half hour.

13 MALE PARTICIPANT: Oh, okay.

14 MALE PARTICIPANT: Three or four hours,  
15 best case is for us to have data.

16 MALE PARTICIPANT: Right.

17 MALE PARTICIPANT: What we are getting  
18 right now is we are getting -- if you remember, at  
19 5:00 this morning I reported that they did have some  
20 sample at the Air Force Base. We are going to get  
21 those concentration levels.

22 MALE PARTICIPANT: (Inaudible.)

23 MALE PARTICIPANT: Well, (inaudible)  
24 prioritizing is we don't know how -- we've got -- we  
25 just got a lot of information on (inaudible), and we

1 are using that to create a map for the reactor safety  
2 team to illustrate the hazards or ability to put in  
3 equipment, this pumping equipment (inaudible) the  
4 design.

5 MALE PARTICIPANT: (Inaudible.)

6 MALE PARTICIPANT: It's current as of noon  
7 today, and it's from some organization called the --  
8 something -- the Intercollection of Japanese  
9 Utilities. Something like that.

10 MALE PARTICIPANT: They're in today's  
11 (inaudible) or --

12 MALE PARTICIPANT: Probably are.

13 MALE PARTICIPANT: (Inaudible.)

14 MALE PARTICIPANT: (Inaudible) today our  
15 time.

16 MALE PARTICIPANT: (Inaudible.)

17 MALE PARTICIPANT: Yeah, yeah.

18 (Laughter.)

19 MALE PARTICIPANT: (Inaudible.)

20 MALE PARTICIPANT: Yeah, this data.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: We're using this data.

23 Everybody is (inaudible)?

24 MALE PARTICIPANT: We don't have anything  
25 better than that.

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1 MALE PARTICIPANT: Yep.

2 MALE PARTICIPANT: Okay. Other than that,  
3 we're working as a third priority is to get you guys a  
4 plain English explanation of why the disparity in the  
5 one core release estimate is higher than the three  
6 core release estimate -- trying to explain that.

7 But that's the big discussion on the line  
8 right now is that all of these professionals are  
9 frustrated in that, and we have a lack of data, and we  
10 are just taking worst-case scenarios, and, you know,  
11 it's not being managed properly, through the proper  
12 context.

13 So Lou is working with an individual  
14 from --

15 MALE PARTICIPANT: Chuck Casto (phonetic)  
16 is coming up to the conference.

17 MALE PARTICIPANT: Lawrence Livermore Lab  
18 to try to (inaudible).

19 MALE PARTICIPANT: Hello, Chuck Casto.

20 MR. CASTO: Hi. Good evening.

21 MALE PARTICIPANT: Good morning, Chuck.

22 MR. CASTO: Good morning, whatever it is  
23 over there. How is everything -- how is everything  
24 going there?

25 MALE PARTICIPANT: I don't know. Your

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1 calls keep waking us up.

2 MR. CASTO: I'm sorry.

3 (Laughter.)

4 Sorry to wake you.

5 MALE PARTICIPANT: Well, what the heck do  
6 you need now?

7 MR. CASTO: Nothing. Actually, I was  
8 calling to tell you -- here, I'm going to put you on  
9 the speakerphone. Actually, I'm not demanding  
10 anything this time. I'm just checking in, maybe give  
11 you a couple of status updates.

12 MALE PARTICIPANT: Okay. Go ahead.

13 MR. CASTO: I think maybe I told you -- I  
14 can't remember exactly what all I told you, but the  
15 water drops don't seem to be effective. The dose  
16 rates were not altered at all. You probably already  
17 know that.

18 MALE PARTICIPANT: Yeah. We're watching  
19 them on TV, and I can imagine they are not being very  
20 effective.

21 MR. CASTO: Right. So, well, there were  
22 five pumps delivered to the site. We got that moving.  
23 They've accepted them, apparently, this time.

24 MALE PARTICIPANT: Do we know that they're  
25 at the site?

1           MR. CASTO: Yeah, they're at -- well, I've  
2 had the best confirmation you can when you're sitting  
3 here and you're not there, you know? But it's the  
4 best confirmation I have, according to -- no, I've got  
5 something else here.

6           MALE PARTICIPANT: Captain Corbett?

7           MR. CASTO: Yeah, Captain Corbett -- is  
8 that they are onsite, and they delivered at 11:30 our  
9 time, and, you know, they accepted them, so --

10          MALE PARTICIPANT: Now, is that the  
11 complete system?

12          MR. CASTO: No.

13          MALE PARTICIPANT: The drainers and  
14 everything?

15          MR. CASTO: No. I think that was just --  
16 all they got was five pumps.

17          MALE PARTICIPANT: Yeah.

18          MALE PARTICIPANT: Chuck?

19          MR. CASTO: So they still don't have --  
20 and, you know, their concern is -- and Marty and  
21 others I guess, you know, this -- this could be a  
22 logistical issue at this point now, less nuclear. The  
23 nuclear stuff is -- is -- you know, is --

24          MALE PARTICIPANT: (Inaudible.)

25          MR. CASTO: Yeah. The nuclear science of



1 this is not -- you know, it's just get water on it.  
2 You know, we are -- there is some debate about lead,  
3 and, you know, we've got all kinds of suggestions from  
4 industry people, non-nuclear industry people here in  
5 Japan, big corporations giving us advice, and, you  
6 know, dump nothing but boron on the core, the spent  
7 fuel pools, and, you know, a lot of people have got a  
8 lot of ideas.

9 But you can only do what you can do, so  
10 we're -- also, you know, try to figure out how to drop  
11 the dose rate, so that, you know, people can install  
12 pumping systems or whatever strategy we have, so, you  
13 know, we are really trying to work that out and trying  
14 to decide whether, you know, to put lead in there or  
15 to put, you know, sand or -- to get the dose rates  
16 down, the big question -- you know, you really don't  
17 want to put anything around the fuel so you can keep  
18 it cool, but what's left of it, or whatever is there,  
19 keep it coolable, but you've got to get the dose rates  
20 down. That's kind of the challenge now.

21 You know, we're thinking HUMVEE's for  
22 workers, you know, to transit in there to pipe -- and  
23 some shielding, some mechanism to shield the workers,  
24 but some of these -- you know, these are lethal dose  
25 rates they're getting outside that building.

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1 MALE PARTICIPANT: Yeah.

2 MR. CASTO: So, you know, if there's some  
3 shielding mechanism, you can get people in there, or  
4 pre-modularize the pipes and climb in with an unmanned  
5 UAV to -- you know, and then go in and bolt it up,  
6 whatever. So I think that's -- you know, we're  
7 working with U.S. Forces Japan, working with DoD. So  
8 basically what I'm saying is that, you know, this is  
9 more of a -- this is more of a mechanical engineering  
10 and logistic issue at this point.

11 MALE PARTICIPANT: So Army Corps of  
12 Engineer type project as opposed to nuclear science.

13 MR. CASTO: That's at least my, you know,  
14 perspective.

15 MALE PARTICIPANT: What I was going to say  
16 is, have we -- have they made the decision to go with  
17 -- go with the pumping and the water vice going with  
18 sand or boron or, you know --

19 MALE PARTICIPANT: Clay or --

20 MR. CASTO: They are only -- they have one  
21 strategy -- helicopters with -- dropping water and  
22 riot cannons.

23 MALE PARTICIPANT: The media reporting --  
24 the media reporting shows the water drops occurring on  
25 Unit 3. Is that your understanding?

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1 MR. CASTO: Yes, that's their priority is  
2 Unit 3.

3 MALE PARTICIPANT: And why -- I guess when  
4 we came off this morning, John was on his way over to  
5 talk to NISA and TEPCO, and the reporting was there  
6 was no water in Unit 4, and that was the one that was  
7 on the top of our list. (Inaudible) putting 3 on the  
8 top of their list.

9 And then, I guess the other question, when  
10 you guys updated our two-pager and sent it back, you  
11 did not touch the one that said that Unit 4's pool was  
12 likely dry. Is that still your understanding? And  
13 what is driving, in their mind, 3 to be a priority  
14 versus 2?

15 MR. CASTO: The reason it would be the  
16 priority is because it's -- it was -- now it's not  
17 steaming at all. It was a priority because it was  
18 steaming heavily. They knew they were losing water  
19 level in it, because it was steaming heavily. So they  
20 wanted to get to that one, and they believed, through  
21 their helicopter flight and their vague, you know,  
22 non-descript images, that there was water in Unit 4.

23 MALE PARTICIPANT: Yeah. They believed  
24 there -- they didn't say it's covered, but they  
25 believe there is a decent amount of water in Unit 4.

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1 The highest priority for them is Unit 3 right now.

2 MR. CASTO: We've looked, and our best  
3 estimate -- who knows who is right, you know? It  
4 could be partially whatever. I mean, you know, we  
5 don't know, and -- and our best guess -- our best  
6 estimate after looking at the imaging at 7:30 this  
7 morning is there is no Unit 4 spent fuel pool.

8 MALE PARTICIPANT: Right.

9 MR. CASTO: You know, that's our best --  
10 from the closeup images that we have seen, our best --  
11 I mean, you can't fathom that there is a spent fuel  
12 pool. If you see the amount of damage to that  
13 building --

14 MALE PARTICIPANT: Right. So we --

15 MR. CASTO: -- you can't fathom that there  
16 would be a spent fuel pool in there. I mean, that  
17 building is -- is structurally, you know, is damaged  
18 severely. And to think that there is a spent fuel  
19 pool in there, we think it's likely -- because it was  
20 steaming some, and it stopped steaming.

21 So to us that meant that it wasn't -- you  
22 know, that it had dried out, and, you know, so -- and  
23 it could be that its fuel is all over the building.  
24 You know, that it was part of the explosion, and they  
25 basically spread that fuel -- spent fuel all over the

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1 inside of that building.

2 MALE PARTICIPANT: We were seeing similar  
3 images of the building when you guys were going off to  
4 talk to NISA and TEPCO, you know, 20 hours ago. When  
5 you came back from that, was that when -- was it at  
6 that meeting that you guys saw their images that they  
7 thought showed water in the pool?

8 MR. CASTO: Well, they took an image at  
9 5:00 yesterday, which was almost 24 hours ago. It was  
10 22 hours ago they took that image, that video, from a  
11 helicopter. They didn't show it to us until 10:00  
12 this morning.

13 MALE PARTICIPANT: Okay.

14 MR. CASTO: Almost 12 hours later they  
15 showed it to us, and, you know, we looked at the  
16 video, and we can't -- you know, they see something  
17 they think is a reflection. I mean, you know, the  
18 shot is a long distance shot. You're looking through  
19 debris, and they said, "See, see, look, you can see  
20 the reflection there." I said, "I can't see crap in  
21 that photo."

22 And meanwhile, in the same video, a few  
23 feet away steam was, you know, coming out. So, you  
24 know, it looked like it was finishing the dryout phase  
25 of draining the spent fuel pool on 4, on Unit 4.

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1 MALE PARTICIPANT: Yeah.

2 MR. CASTO: Or something was steaming  
3 there, you know. Who knows? It might have even been  
4 smoke. Who knows what that was? But, you know, it  
5 looks -- when you see the other closeups that [REDACTED]  
6 [REDACTED] took, it looks -- you know, it doesn't look like  
7 that building hardly has any structural integrity to  
8 it.

9 MALE PARTICIPANT: Right, right. We saw  
10 that. Let me ask you another question. Another thing  
11 that you didn't touch on our two-pager is where the  
12 Unit 2's primary containment is intact. We have seen  
13 some reporting on NHQ, news that had cited NISA saying  
14 that the primary containment Unit 2 was partially  
15 breached. What's your best understanding of that  
16 containment at this point?

17 MR. CASTO: Anybody know?

18 MALE PARTICIPANT: Unit 2?

19 MR. CASTO: Yes.

20 MALE PARTICIPANT: Unit 2 is (inaudible).

21 MR. CASTO: Yes. They breached a hole in  
22 the secondary containment.

23 MALE PARTICIPANT: Right.

24 MALE PARTICIPANT: We understand the  
25 secondary containment was intentionally breached to

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1 vent.

2 MR. CASTO: Right.

3 MALE PARTICIPANT: But we had heard  
4 another report that said primary was partially  
5 breached.

6 MALE PARTICIPANT: Right.

7 MALE PARTICIPANT: I'm looking through my  
8 notes right now. My reaction from what we have heard  
9 is that they say that the primary containment is  
10 intact, from what we have heard, at Unit 2. However,  
11 with that said, I know, you know, at least some people  
12 on the team, there was a loud boom, there was a loud  
13 explosion, there was this loud sound in the vicinity  
14 of the suppression pool for Unit 2 a day or two ago.

15 MALE PARTICIPANT: Yeah.

16 MALE PARTICIPANT: So there are some  
17 people that do believe that they lost the primary  
18 containment on Unit 2 back then. I have to go exactly  
19 through my notes.

20 MR. CASTO: Yeah, I remember that. You  
21 know, who knows? I mean, you know, there is no way to  
22 get in that building and know what --

23 MALE PARTICIPANT: Yeah.

24 MR. CASTO: -- the condition is of --

25 MALE PARTICIPANT: Right.

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1 MR. CASTO: -- primary containment.

2 MALE PARTICIPANT: I'm not sure if it  
3 really matters, to tell you the truth. I mean, the  
4 source term is, you know, orders of magnitude with or  
5 without Unit 2.

6 MALE PARTICIPANT: Yeah. I mean, it --

7 MALE PARTICIPANT: We want the status  
8 report to be correct. But in terms of consequences or  
9 whatever, I'm not sure if it really matters.

10 MALE PARTICIPANT: Yeah. No, I agree.



11  
12  
13  
14  
15  
16  
17  
18  
19  
20 MALE PARTICIPANT: Yeah. We're struggling  
21 mightily on this end, so --

22 MALE PARTICIPANT: Yeah.

23 MALE PARTICIPANT: -- we relieve you of  
24 the --

25 MALE PARTICIPANT: I'm sure that's the

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1 case. I understand. So as we get embedded and their  
2 willingness increases, we'll get better and better  
3 information.

4 MALE PARTICIPANT: Right.

5 MALE PARTICIPANT: So Beck Foster  
6 (phonetic) just brought over the daily summary from  
7 NISA, who is the regulatory agency, on Unit 2 for the  
8 primary containment. Their bullet says, "The sound of  
9 explosion was main Unit 2. As the pressure in the  
10 compression chamber decreased, there was the  
11 possibility that an incident occurred in this  
12 chamber."

13 I mean, you know, there was an explosion,  
14 they say the pressure decreased, and that's all the  
15 information there is. You could conjecture that, you  
16 know, it caused primary -- you know, a hole in primary  
17 containment in the suppression pool or not.

18 MALE PARTICIPANT: But --

19 MALE PARTICIPANT: You know, I guess to be  
20 probably most accurate for the bullet, you know, it's  
21 questionable or uncertain. Is that fair?

22 MALE PARTICIPANT: I guess another area  
23 that we've heard that they are focusing energy on is  
24 trying to reestablish electrical power to the site.  
25 Do you have any information on what they are trying to

1 do and to what degree they have had success with that?

2 MR. CASTO: Yeah, Jack has that I think.

3 JACK: Yeah. We had a meeting with NISA  
4 today about 11:30 or so local time, and essentially  
5 what they mentioned is that they -- they actually have  
6 a diesel generator on Unit 5, which is supplying power  
7 to the central (inaudible) for 5 and 6. Okay?  
8 Because of the geographical differences, the distance  
9 between 5 and 6, and then 3 and 4, they said they are  
10 not able to get the actual power from 5 and 6 there to  
11 the rest of their site.

12 But that being said, there was (inaudible)  
13 discussion -- and (inaudible) can probably help me out  
14 with this -- but I understand that they have a  
15 generating company called Toho --

16 MALE PARTICIPANT: Tohuka (phonetic)

17 JACK: -- Tohuka, and they are actually  
18 doing work on the (inaudible) right now that is -- and  
19 coming into the wayward side of the Daiichi site to  
20 try and restore power.

21 Now, I asked -- one of the particular  
22 questions I asked was, "How long do you think it will  
23 take?" and they said, "TBD on that." So we are going  
24 to probably meet with them tomorrow and get a better  
25 understanding of when they will be able to restore

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1 site power. I think that's a long-term fix here.

2 MALE PARTICIPANT: Well, what they -- in  
3 our meeting with the Ministry of Defense, they  
4 reported that today they are working on restoring  
5 power for Units 2, 5, and 6, and they believe that  
6 would occur today, and that tomorrow they would focus  
7 on Units 1, 3, and 4.

8 I mean, in my own mind, I'm not sure --  
9 you know, I mean, so you have power to the site. I  
10 mean, but all of the switch gear and the --

11 JACK: Yeah.

12 MALE PARTICIPANT: -- breakers and --

13 JACK: Yeah. It's helpful -- it's always  
14 helpful to have power, but in this situation, with the  
15 radiation levels, you're not going to go in there and  
16 do any switching anyhow, but --

17 MALE PARTICIPANT: I mean, if they  
18 reenergize everything.

19 MALE PARTICIPANT: We will take care of  
20 that switch gear when we start pulling the water --

21 MALE PARTICIPANT: All right.

22 MALE PARTICIPANT: That's the other  
23 question we had is, why are they prioritizing that, so  
24 they have -- what confidence do they have that  
25 anything inside there is going to work if they have

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1 power?

2 MALE PARTICIPANT: Yeah. Well, it can be  
3 used to power temporary things that we do, so it's  
4 always good to have power, and it's not diverting  
5 their resources in terms of the water.

6 MALE PARTICIPANT: Yeah.

7 MALE PARTICIPANT: Yeah. So, you know,  
8 it's okay to do. It's, you know, somebody else's  
9 doing and it's not -- it's not impacting the immediate  
10 mitigation.

11 I do have an e-mail here that I got from  
12 DITTRA (phonetic), and it is more than just five  
13 pumps. They actually delivered -- the status of site  
14 today, they delivered 750 feet of six-inch line, a  
15 tank, three -- two tanks, three high-head -- high-  
16 head, low-volume jet pumps, and diesel -- diesel-  
17 powered, and 100 more feet of line is being requested.

18 So they are pushing more than just pumps.

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: They are pushing piping  
21 and other stuff as well.

22 MALE PARTICIPANT: And I think what we  
23 want to do on a separate bridge shortly is to get --  
24 to get Tim Colvin and Debow (phonetic) -- Debow maybe  
25 on the line with Mike Case. He had called me, and I

1 know you guys are working the project pretty well.  
2 But at the same time, you know, resources are coming  
3 in. But I think somehow we've got to get a handle on  
4 the entire thing.

5 MR. CASTO: Yeah, that's why -- you know,  
6 my thinking that we talked a little bit about, you  
7 know, we really need to turn this piping system over  
8 to U.S. Forces Japan, and let them do it. And, you  
9 know, we just tell them what we need and let them do  
10 it, work with the Ministry of Defense.

11 You know, we are nuclear people. We can  
12 deal with -- we don't want to run -- we don't want to  
13 get diverted off the ball here. We've got other cores  
14 that are in jeopardy in containment, and, you know,  
15 let's just turn the logistics over to U.S. Forces  
16 Japan.

17 And, you know, because I've got -- you  
18 know, we've got you guys down there working on finding  
19 pumps and valves and all that stuff, and, you know,  
20 but it's helpful -- and we needed it at the time to  
21 kickstart, you know, what we were doing. We needed --  
22 because we didn't have any other resources, but I can  
23 tell you that, you know, I just left the Ambassador,  
24 and, you know, we can get whatever we want. We don't  
25 have to do it. The NRC doesn't have to do it.

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1           So, you know -- so as much as we can move  
2           towards getting DoD and MOD to do this, that would be  
3           great, and get the NRC back focused on the nuclear  
4           things.

5           MR. CASE:     Chuck, this is Mike Case.  
6           We're aware of the pump. We're working with Bechtel  
7           and GE to sort of round out the parts and other things  
8           that we will need to make the pumps work, so we're  
9           working on that. We haven't got that information back  
10          from Bechtel, but when we get that back we'll get with  
11          you guys and start to work on next steps.

12          MALE PARTICIPANT:   Okay, that's great.

13          MALE PARTICIPANT:   So do you still want  
14          Seminole (phonetic) to give you a buzz or not?

15          MALE PARTICIPANT:   Yeah, that would be  
16          helpful, John. That will catch up the rest of the  
17          team.

18          MALE PARTICIPANT:   One other thing that  
19          TEPCO requested today was some type of project  
20          management help, like from day -- from today on, they  
21          would like somebody to give them some advice on how to  
22          get out of this situation, to help them plan this to  
23          get out of it. So is there anything we could give  
24          them help on there?

25          MALE PARTICIPANT:   Again, I think that's a

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1 DoD/U.S. Forces -- Japan Forces issue to project  
2 manage and logistics. Nobody knows how to move stuff  
3 in the Department of Defense. And I'm just telling  
4 you, they're just asking for our help --

5 MALE PARTICIPANT: Yeah.

6 MALE PARTICIPANT: -- if we can give them  
7 some help.

8 MALE PARTICIPANT: And we need to help  
9 DoD. We've got to help DoD tell them what we need,  
10 but we need to get DITTRA and -- who else am I  
11 thinking about? Yeah, and get everybody connected,  
12 even if it's on a bridge, you know, all the people  
13 that have a chop at this in one room and, you know,  
14 make sure that we've got the -- not duplicating effort  
15 as much as possible.

16 MALE PARTICIPANT: (Inaudible) after all  
17 that equipment gets there, somebody is going to be  
18 there to say, "Hey" --

19 MALE PARTICIPANT: Right.

20 MALE PARTICIPANT: -- "we're fine and  
21 we're (inaudible)."

22 MALE PARTICIPANT: Yeah, that's -- right.  
23 That's the other problem. We can't get them -- we  
24 can't get TEPCO and the government to actually install  
25 it. They asked for help installing it, and we're not

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1 going to do that.

2 Okay. So Mike Case and Tim and them are  
3 going to get on that, and we'll get the DITTRA people  
4 here and everything -- was it Ron or -- Ron -- is Ron  
5 doing the DITTRA people?

6 MALE PARTICIPANT: Alexander, something  
7 Alexander.

8 MALE PARTICIPANT: So that -- so the  
9 DITTRA people -- so that would show on the phone.

10 MALE PARTICIPANT: He is my contact.

11 MALE PARTICIPANT: He reached out to -- I  
12 guess to DITTRA -- to the people on Joint Forces  
13 Japan --

14 MALE PARTICIPANT: Good.

15 MALE PARTICIPANT: -- and the guy named  
16 Jim Lynn from I guess the Joint Forces, he is  
17 currently meeting with the Ministry of Defense. But  
18 they're reaching out to him to have him --

19 MALE PARTICIPANT: Okay. That's great.  
20 That's awesome.

21 Yeah. One thing is, we would add Joint  
22 Forces Japan to our team. We would add a couple --  
23 they have been asking to come up, and, you know, we  
24 gave them the green light to come up, and we would add  
25 them to the team. And then, we could take a couple --

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1 like Tim and the Joint Forces people, and they could  
2 work all that issue on getting the piping --

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: -- stuff together, so  
5 we'll set them off as a subgroup, Joint Forces and  
6 DITTRA. Tim will lead that effort, and then we can,  
7 you know, subdivide and keep our attention focused.  
8 Are we okay with that?

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: Anybody --

11 MALE PARTICIPANT: Do we know that --

12 MALE PARTICIPANT: We have two direct  
13 contracts with DITTRA.

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: And that's the  
16 gentleman that I spoke with earlier. One of them is  
17 Captain Corbett, and the other one is Alexis Robinson.

18 MR. CASTO: And basically, the advice from  
19 the Ambassador was, you know, we -- even DITTRA and  
20 Joint Forces Japan and DoD were saying, "Hey, look,  
21 some of the stuff is over here in Japan."

22

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 So if it means, you know, flying pipe over  
5 here that should be available in Japan, that's just  
6 the way it has to be. So we are proceeding to do it  
7 independently as the Japanese supply chain.

8 MR. MILLER: Chuck, Chris Miller. Do you  
9 know if -- I mean, do we have a good connection with  
10 the emergency offsite operations center that -- you  
11 know, that I think is the center that's running, you  
12 know, the priorities and moving logistics and is with  
13 -- and is tied in with our U.S. Forces Japan? Do we  
14 have a good link with them to know what their  
15 priorities are, so that we're not, you know, going  
16 after one set of things and they're going after  
17 another set?

18 MR. CASTO: No, Chris, we don't. And --  
19 but, however, what we do know is they only have one  
20 [REDACTED] [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]

5

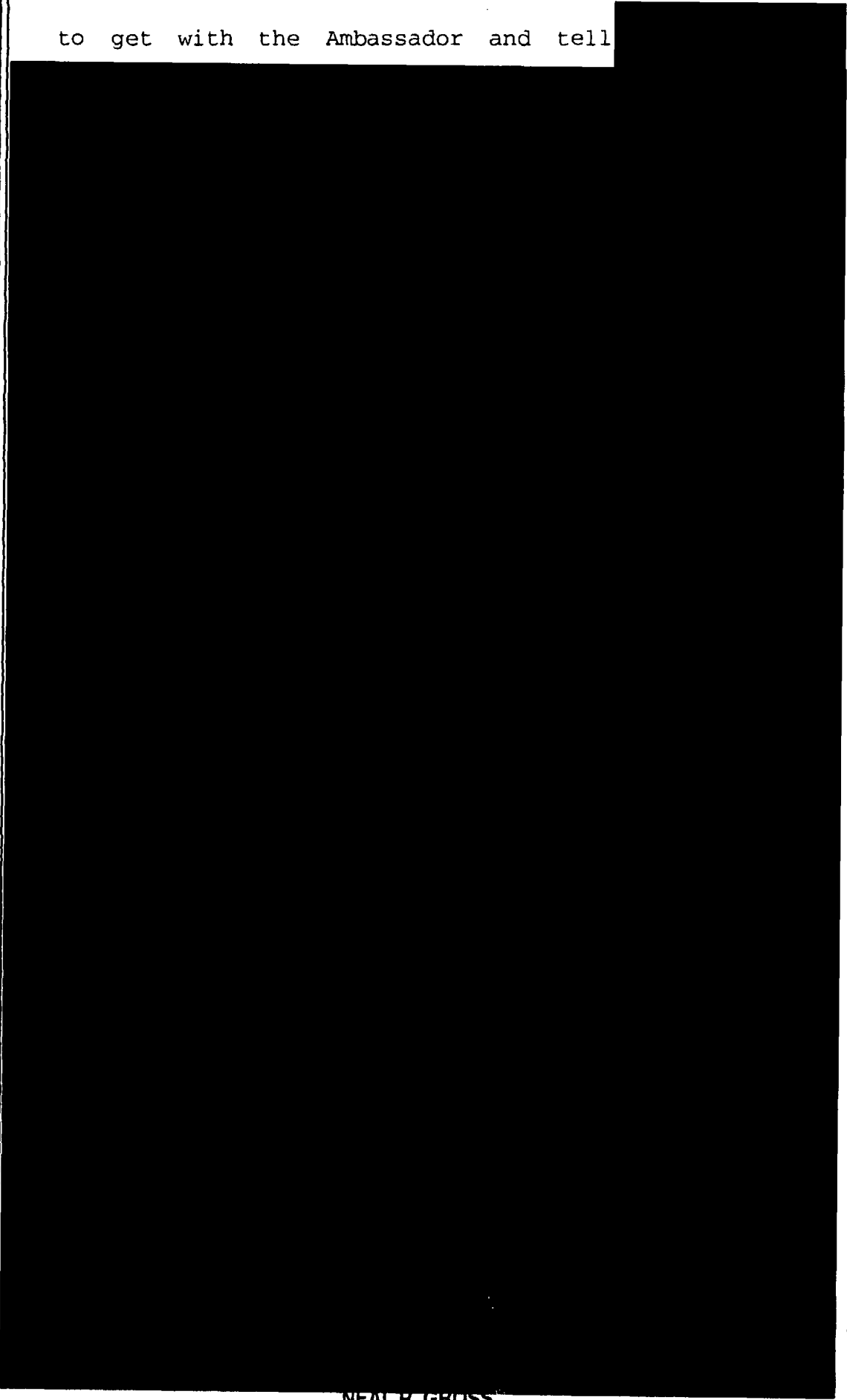
25 And this morning, you know, our goal was

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1 to get with the Ambassador and tell



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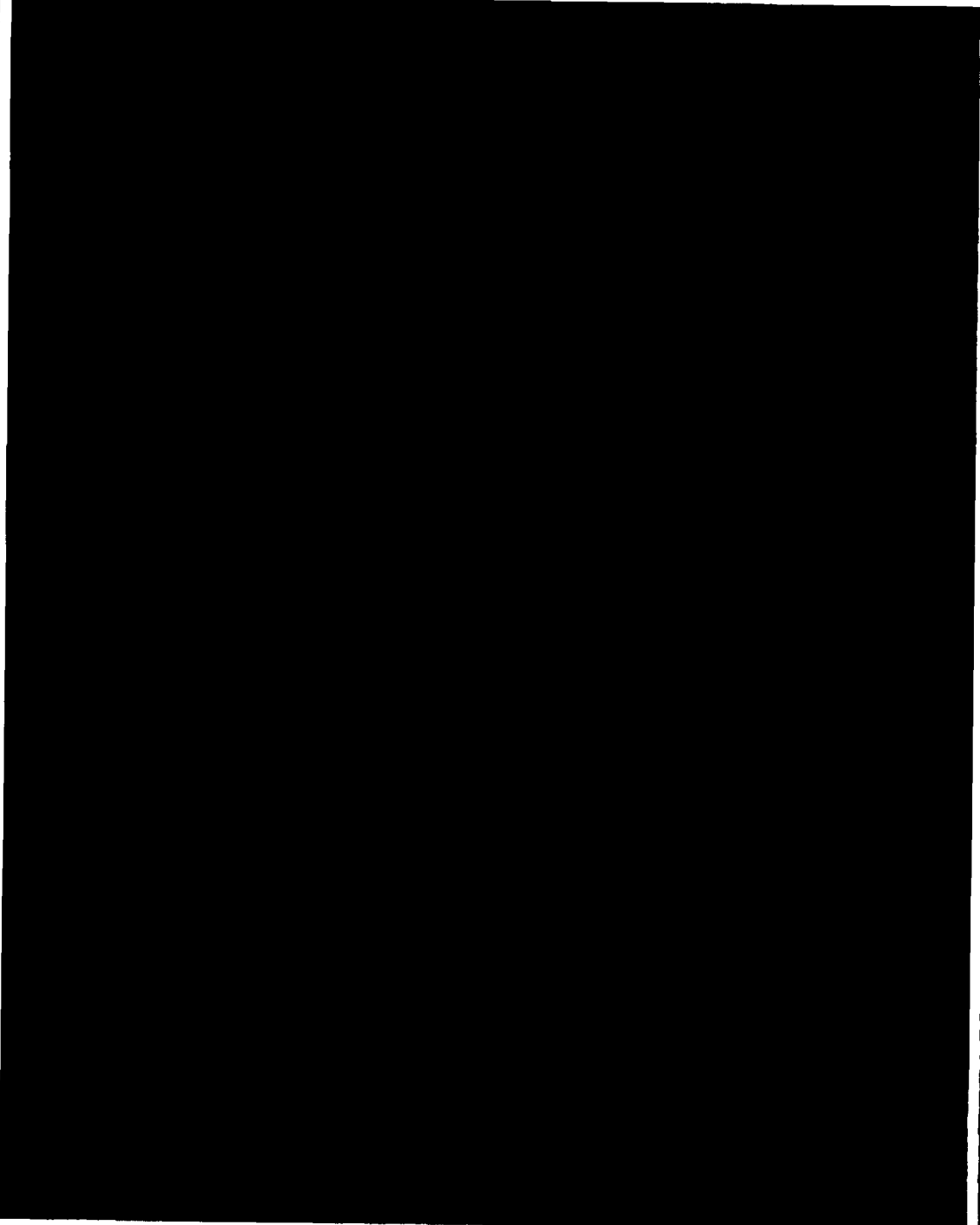
21                   And so our dilemma here is -- the  
22 challenge that we have is to try to keep the spent  
23 fuel pools in a coolable geometry, but yet reduce dose  
24 to the workers.

25                   Now, whether that's the HUMVEEs, you know,

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1 or some other mobile -- or build a shield, build a  
2 building, or some kind of shield out there that you  
3 can work behind to install the equipment, or dump lead  
4 on the top of the refuel floor, whatever you've got to  
5 do to drop dose so that -- they're just not willing to



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25 Now, what they're doing is they have

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5.

1 bulldozers -- I mean, the dose sounds like not as much  
2 a shine from the building as when the building blew  
3 up. There is spent fuel and pellets and whatever all  
4 over the place around the plant. So they are taking  
5 the bulldozers through and pushing the rubble in  
6 piles, and they are saying that's cutting the dose  
7 down, you know, 60, 70 percent.

8 So they are trying to -- in these areas  
9 where the piping runs would go, they are trying to  
10 clean it up. But, I mean, the dose is still going to  
11 be, you know, incredible. I mean, they were talking  
12 yesterday, they said the resources they have were  
13 somewhere between 2- to 300 people, and that, you  
14 know, TEPCO and other licensees, the Civil Defense  
15 Force and some -- some police. [REDACTED]

16 [REDACTED]  
17 [REDACTED]  
18 MALE PARTICIPANT: Yeah.

19 MR. CASTO: All their people have to be  
20 burnt out by now.

21 MALE PARTICIPANT: Are they going up to  
22 25 rem, do you know?

23 MALE PARTICIPANT: They've extended that,  
24 I think.

25 MR. CASTO: No idea.

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1 MALE PARTICIPANT: I don't know. They  
2 asked us how we deal with extending dose, and we just  
3 told them for emergencies and a condition like this,  
4 we have guidelines that let us go to a certain limit.  
5 But in this case, you need to do what you need to do  
6 to get it done.

7 MALE PARTICIPANT: We saw some media  
8 reports yesterday that said that they were -- they had  
9 authorized going to 25 rem.

10 MALE PARTICIPANT: Yeah. Obviously, they  
11 need more -- they need more people to spread that  
12 around, so that people aren't getting in excess of  
13 25 rem.

14 MR. CASTO: And they -- you know, not just  
15 for the pool cooling, but they talked about our  
16 personnel to, you know, be embedded with their  
17 personnel. And they said no. I mean --

18 MALE PARTICIPANT: Thank you, John.

19 MR. CASTO: -- you know, we're not going  
20 to do that.

21 MR. VIRGILIO: Yeah, right, right. I  
22 mean, but that's -- then, they need to get out and  
23 recruit more than the 2- to 300 people they have.

24 MR. CASTO: I think their challenge,  
25 Marty, is that they are using their military for the

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1 tsunami recovery. You know, they are strapped with,  
2 you know, resources to do tsunami recovery, nuclear --

3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]

7 Now, you know, you can tell them that, and  
8 what -- you know, how that filters down.

9 MALE PARTICIPANT: Right.

10 MR. CASTO: It got the MOD's attention and  
11 they called us in and we had the big meetings, but --  
12 but, you know, nevertheless, I mean, they've still  
13 got, you know, people to worry about, and they have a  
14 huge crisis up there in terms of, you know, all the  
15 things from, you know, hazardous material, deaths, all  
16 that that they're trying to deal with with their  
17 military.

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

21 [REDACTED] you know, so do you -- you know, so it's  
22 a terrible situation, and you evacuate, you keep  
23 people safe, and then we address this problem  
24 methodically, you know, without -- because it is  
25 probably already at its worst-case scenario, and maybe

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1 stable.

2 You know, if there are rubble beds in  
3 there in the spent fuel pool, right now there is -- it  
4 doesn't seem to be getting worse. So it's -- you  
5 know, it's stable with regard to -- whatever the  
6 rubble bed is, we're not getting zirconium fires that  
7 we can tell or, you know, anything -- it's always --

8 MALE PARTICIPANT: Right.

9 MR. CASTO: It's stable where it's at, so,  
10 you know, you get the people away, and then, now,  
11 okay, let's methodically, you know, without just  
12 running the military in there to kill people, just to,  
13 you know, make us feel like we're solving the problem,  
14 you know, so we're -- you've got to kind of take it  
15 slowly. You know, let's get the people out of the  
16 way. Now, let's, you know, methodically go through  
17 this and, you know, without a lot of loss of life.

18 MALE PARTICIPANT: Right, right.

19 MR. CASTO: So that's my -- you know,  
20 that's just my perspective. I don't know. I can  
21 empathize with them, you know, and that is huge. I  
22 mean, it -- I mean, I can't go through all this stuff.

23 We just went to the compound, the Embassy compound,  
24 to talk to the Ambassador, and he is talking to all  
25 the dependents, you know, and they just authorized the

1 evacuation. They've got charter flights out of here.

2 You know, we are moving aircraft carriers.

3 The alliance is concerned, because the --  
4 if they move the Essex (phonetic), you know, it is  
5 supposed to be dedicated to the alliance, and, you  
6 know, but there were -- you know, so -- I mean, this  
7 government has got tremendous, tremendous, I mean,  
8 unfathomable challenges. It's just -- the spent fuel  
9 pool isn't -- you know, this is important, but I'm not  
10 sure that it's their -- you know, it's their number  
11 one.

12 If they get the people away from it,  
13 right, you protect the people and then you  
14 methodically -- but, you know, they are bringing ships  
15 in here to take people out. They are -- you know,  
16 charter flights are, you know, a dime -- you know,  
17 every 15 minutes or something getting out of here.

18 The dependents, you know, we were over  
19 there listening to them, waiting on the Ambassador to  
20 talk -- brief him. And, I mean, there was a lot of  
21 angst and concern, and there is, you know, so --

22 MALE PARTICIPANT: How many people are  
23 they moving under the voluntary authorized departure?

24 MR. CASTO: Oh, it's a lot of people.  
25 It's -- yeah.

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1 MALE PARTICIPANT: We're talking  
2 (inaudible).

3 MALE PARTICIPANT: Orders of magnitude.

4 MR. CASTO: Yeah, it's a significant  
5 amount of people, and they have -- and they have  
6 authorized all Americans to go on the charter. So  
7 they have taken half the flights and have Embassy  
8 dependents -- well, no, each flight -- I don't know  
9 how to say it. Now I'm starting to get tired. Each  
10 flight is reserved -- half reserved for Embassy  
11 dependents, the other half of the flight is for  
12 American citizens.

13 MALE PARTICIPANT: Right.

14 MR. CASTO: Okay? So they're pumping  
15 those, but they're worried because, you know, they may  
16 get grounded eventually, because of -- because of, you  
17 know, radiation. They are worried about radiation.  
18 Commercial air carriers are trying to make the  
19 decision whether they are going to stop their flights.

20 And if they do, then that puts more  
21 pressure on the charter flights to get people out. I  
22 mean, these people have got -- it's hell over here for  
23 that government. I mean, it's just absolutely hell.  
24 And I know we get frustrated with them, but, man, when  
25 you think about what they're faced with, it's

1 absolutely unfathomable.

2 When you've got a thousand dead bodies  
3 washing up on the shore, you know, it's -- you know,  
4 these people -- I don't know, I mean, we -- you know,  
5 we think we'd be prepared for it, but it's -- this is  
6 -- it is tough for them, and we're over here barking  
7 at them about -- and I want to do it, don't get me  
8 wrong. I'm not trying to -- but, you know, we do have  
9 to be a little patient. They're working hard, and  
10 they have a lot of challenges, and, you know --

11 MALE PARTICIPANT: And we're here to help  
12 them.

13 MR. CASTO: So we're going to try to do  
14 this independently. And if they don't -- you know, if  
15 in the end we build a bunch of systems to pump water,  
16 and they don't want them and we can't install them,  
17 well, what can we say, right? We wasted time and  
18 money, but, you know, we tried to do something to help  
19 them out. And if it doesn't work, and it's a waste of  
20 time, then so be it.

21 MALE PARTICIPANT: Right.

22 MALE PARTICIPANT: Chuck and John, what  
23 was the basis, John, for your statement at -- that you  
24 believe there are spent fuel pellets on the ground of  
25 the property?

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1 JOHN: Because they gave us the dose rates  
2 of, what, 20 to 30 rem per hour? And they said, you  
3 know, the dose rates go down 70 percent when they  
4 bulldoze the --

5 MALE PARTICIPANT: Debris.

6 JOHN: -- debris out of the way. Well,  
7 you don't get 20 rem from contamination on the side of  
8 the spent fuel pool. It's got to be fission product.  
9 I mean, you know, you have -- so how did the  
10 explosion occur?

11 The spent fuel pool had to be at least 20  
12 percent, 10 percent level, whatever. You had a  
13 significant zirc oxide reaction, all of these -- all  
14 this hydrogen, and a massive explosion. And what's  
15 right below the explosion? There's no body of water.  
16 You've just got all of that spent fuel pool that's,  
17 you know, 2,000 degrees plus just baking there.

18 I mean, you know, how can you think you'd  
19 blow apart, you know, girders and seals and everything  
20 else, and these little delicate spent fuel bundles  
21 that are 2,000-plus degrees are going to stay intact?

22 I mean, that doesn't make sense. You blow out  
23 concrete walls and beams, and the structure of the  
24 building is blown up. You've seen images.

25 MALE PARTICIPANT: Yeah, yeah. I mean --

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1 MALE PARTICIPANT: No, I've seen those  
2 images. I mean, I guess I was just asking -- that's  
3 more your logic than something that you've been told  
4 by anybody else.

5 JOHN: They haven't said it's fission  
6 products or pellets in the parking lot. But, I mean,  
7 it's got to be.

8 MALE PARTICIPANT: The purpose of the  
9 bulldozing, is that -- I don't understand. Is that  
10 just to reduce the radiation, or are they --

11 JOHN: Well, they --

12 MALE PARTICIPANT: They want to get the  
13 riot truck in there.

14 MALE PARTICIPANT: Yes.

15 MALE PARTICIPANT: Oh, okay.

16 JOHN: Well, they say it's to clear the  
17 debris, so they can get the fire trucks, the riot  
18 trucks, the water trucks, et cetera. I think it's --  
19 some of it is debris, but I think it's to  
20 significantly move the dose out of the way.

21 MALE PARTICIPANT: Right.

22 JOHN: Move the fission products, move the  
23 pellets, move whatever.

24 MALE PARTICIPANT: So this goes back to  
25 what you said earlier about their strategies right now

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1 being the helicopters and the water cannon.

2 MR. CASTO: That's it.

3 JOHN: But they are using the bulldozers,  
4 or at least that's what they told us yesterday.

5 MR. CASTO: Yeah. That gets them the  
6 water cannons in there.

7 MALE PARTICIPANT: Right, right. Okay. I  
8 was thinking that maybe they had already developed a  
9 strategy for assembling the pipes and pumping. But  
10 it's really about the water cannon.

11 MR. CASTO: You know, Marty, one of the  
12 things that occurred to us was that for learning and  
13 something that might be able to help us -- we're not  
14 certain -- this could be a complete waste of time --  
15 is to have somebody fly over one of our BWR-4s that --  
16 in an outage, and take a picture of -- [REDACTED]  
17 [REDACTED] the reactor  
18 and the spent fuel pool.

19 MALE PARTICIPANT: So a [REDACTED] image.

20 MR. CASTO: Or some kind of [REDACTED] image, even  
21 if they have to fly [REDACTED] over it. But, you  
22 know, it might help us look at -- well, right now what  
23 we're doing is we're taking a schematic of the reactor  
24 building and overlaying it on the [REDACTED] that  
25 we have to try to see, you know, what -- you know,

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1 does that [REDACTED] somewhat take the shape of the  
2 spent fuel pool and the reactor?

3 MALE PARTICIPANT: So whenever those

4 [REDACTED] 5  
6 you would want, you know, to do some -- if you want a  
7 good comparison, you would want a very similar thing  
8 done for, you know, whatever Mark 1s are shut down in  
9 the refueling outage here. I mean, an operating plant  
10 you don't want, because, you know, you can have all  
11 the (inaudible) to operate. You want a unit that is  
12 shut down.

13 MALE PARTICIPANT: So the thought is you  
14 are going to use this information and whatever else  
15 you can to convince them that the pumping strategy is  
16 a strategy they may choose over what they've got.

17 MR. CASTO: Yeah. You know, we -- I think  
18 what we're trying to do is characterize what's inside  
19 the buildings.

20 MALE PARTICIPANT: Yes.

21 MR. CASTO: You know, and that's -- using

22 [REDACTED] 5  
23  
24 MALE PARTICIPANT: Right.

25 MR. CASTO: -- you know, comparisons,

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1 whatever, we can devise a better strategy. The  
2 pumping strategy may not be useful at all if there is  
3 no spent fuel pool, and there is just a rubble bed in  
4 there somewhere. Then, what have you got? There's  
5 nothing to pump.

6 MALE PARTICIPANT: Even beyond that, it's  
7 -- that could be used to demonstrate the success of  
8 the pumping system.

9 MR. CASTO: System, right, yeah.

10 MALE PARTICIPANT: If we had a [REDACTED]  
11 signature of a reactor that was intact, and a spent  
12 fuel pool that was intact, and we compared that  
13 against before and after the pumping evolutions, we  
14 can have --

15 MR. CASTO: Tell what the [REDACTED]  
16 So it's just more information, comparison  
17 information. It may or may not help, because the  
18 other problem you've got is, you know, any BWR-4 Mark  
19 1 containment you have, you've got a reactor building  
20 on top of it. You know, you've got a reactor building  
21 roof.

22 So what would the [REDACTED] image do, because  
23 you've got the reactor building roof on there. You  
24 know, so would it be useful at all? I don't -- we  
25 don't know. We are just, you know, taking people's

1 advice and suggestions and taking up some of ours and  
2 yours and trying to, you know, do the best we can with  
3 the information we have.

4 MALE PARTICIPANT: We know that the AMS  
5 actually did some flyovers. I don't know if they --  
6 did they fly over the plant?

7 MALE PARTICIPANT: No, no, no.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: They won't fly into the  
10 (inaudible), but they get close to it.

11 MALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: So that's useful in  
13 helping us develop a strategy for --

14 MALE PARTICIPANT: We're not going to know  
15 until we see what they give us --

16 MALE PARTICIPANT: Yeah. But if they  
17 didn't fly over the plant, they're not going to help  
18 us with our site path.

19 MALE PARTICIPANT: No.

20 MALE PARTICIPANT: Did we ask for  
21 (inaudible)?

22 MALE PARTICIPANT: I'm not sure.

23 MALE PARTICIPANT: Jerry, where did you  
24 get your data? You said you were developing a map of  
25 the site.

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1 JERRY: We got it from the Federation of  
2 Electric Power Companies of Japan.

3 MALE PARTICIPANT: Yeah, look at that.  
4 That's the best we could do.

5 JERRY: They're here in Washington, but  
6 they've got data that they are getting from -- it  
7 looks like --

8 MALE PARTICIPANT: Did Chuck have this  
9 map?

10 MALE PARTICIPANT: No, we just -- we  
11 just --

12 FEMALE PARTICIPANT: (Inaudible.)

13 MALE PARTICIPANT: -- to gather  
14 information on --

15 MALE PARTICIPANT: We put this together  
16 from -- that came from a news report of --

17 MALE PARTICIPANT: (Inaudible.)

18 MALE PARTICIPANT: -- dose rate from the  
19 helicopter that did the water dump.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: And it was just over --

22 MALE PARTICIPANT: Chuck, we're just --

23 MALE PARTICIPANT: Do you understand what  
24 we're looking at now?

25 MR. CASTO: No, we were having our own

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1 side conversation --

2 (Laughter.)

3 -- while you guys were having yours, so  
4 I'm sorry. I apologize.

5 JERRY: Chuck, this is Jerry.

6 MR. CASTO: We listened to you, really,  
7 seriously.

8 (Laughter.)

9 JERRY: Nothing has changed.

10 (Laughter.)

11 MR. CASTO: Go ahead.

12 MALE PARTICIPANT: Jerry wants to explain  
13 what --

14 MALE PARTICIPANT: Well, Chuck, we don't  
15 -- we got the best we could. We received this  
16 unsolicited document titled from the Federation of  
17 Electric Power Companies of Japan, FEPC, Washington,  
18 D.C. Office. And it has a -- whether it's valid or  
19 not, we don't know, but it has detailed rad  
20 measurements associated with each of the reactors and  
21 buildings.

22 And we have taken that text, to the best  
23 of our ability overlaid it on a map of the site, and  
24 we just finished that about 10 minutes ago. And we're  
25 going to discuss it with the ET and get it to you.

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1 MR. CASTO: That's great. I think -- we  
2 have the data, and do we have the map of the -- do we  
3 have the map that they just did?

4 MALE PARTICIPANT: No, we do not. We just  
5 generated it.

6 MR. CASTO: Okay. We have something here  
7 that is similar I guess, but --

8 MALE PARTICIPANT: We're not translated,  
9 so if they have it in English in electronic --

10 MR. CASTO: Okay.

11 MALE PARTICIPANT: -- they should send it.

12 MR. CASTO: Okay. Yeah, we have it in  
13 Japanese.

14 MALE PARTICIPANT: It's not -- it's really  
15 the -- if it's at all correct, it's not that untimely.  
16 It's as of --

17 MALE PARTICIPANT: March 16th.

18 MR. CASTO: What's it showing, Terry?  
19 What's the bottom line?

20 MALE PARTICIPANT: We (inaudible) this  
21 morning, and right now it's 2:00 in the morning, the  
22 next day.

23 MR. CASTO: What's the bottom line?  
24 What's it saying? What's it telling us?

25 MALE PARTICIPANT: It's telling you you've

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1 got 40 rem, 10 rem, you know, I --

2 MALE PARTICIPANT: (Inaudible.)

3 MR. HESTA: I'll tell you, between the  
4 buildings it looks like -- and this is Greg Hesta, no  
5 relation, I don't think. But we --

6 MALE PARTICIPANT: But smarter and good --  
7 better looking.

8 (Laughter.)

9 MR. HESTA: Yeah, I don't know. We've got  
10 between 30 and 40 rem between the buildings, 30 rem  
11 between Units 2 and 3, 40 rem between Units 3 and 4.  
12 We've got what appears to be a 10 rem per hour line  
13 along the roadway that is just west of the unit, I'm  
14 guessing. We have --

15 MR. CASTO: Okay. So 32 -- I mean, in a  
16 sense it goes back to John's argument. This stuff is  
17 spread everywhere.

18 MR. HESTA: Yeah. I mean, that's not from  
19 contaminated steel inside --

20 MALE PARTICIPANT: Well, it could be.

21 MALE PARTICIPANT: This could be  
22 reinforcement.

23 MALE PARTICIPANT: Remember, that was a  
24 plume that --

25 MALE PARTICIPANT: (Inaudible.)

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1 MALE PARTICIPANT: John, the first 40 rem  
2 numbers we saw were well before the explosion in  
3 Unit 4, and the supposition at the time was that this  
4 was -- was shine from green pools (phonetic).

5 MALE PARTICIPANT: And it's -- okay.  
6 Yeah. But when they tell you the dose decreases 70  
7 percent when they bulldoze the crap out of the way,  
8 but --

9 MALE PARTICIPANT: Well --

10 MALE PARTICIPANT: -- well, there could be  
11 some gross deposition to the west of the plant. There  
12 was a plume that migrated that way over the past two  
13 days, so there could be some gross deposition.

14 MALE PARTICIPANT: Deposition, but you're  
15 talking between two units.

16 MALE PARTICIPANT: Yeah.

17 MALE PARTICIPANT: Aren't you?

18 MALE PARTICIPANT: That deposition is a  
19 little bit downwind?

20 MALE PARTICIPANT: No, that probably --  
21 that's probably a contribution of ground shine between  
22 the two units.

23 MALE PARTICIPANT: So in terms -- so --  
24 not to play devil's advocate here, but you had a pool  
25 that was probably fully drained, fuel that's several

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1 thousand degrees, a massive explosion, and we think  
2 nothing is happening to the rods or the pellets in  
3 that explosion.

4 MALE PARTICIPANT: No, we aren't saying  
5 that. But it's just where it is. You can get dose  
6 outside from deposition, you could get dose outside  
7 from shine, or a contribution --

8 MALE PARTICIPANT: Right.

9 MALE PARTICIPANT: -- of both. You could  
10 get dose outside from spreading material, whether it's  
11 fuel pellets or other stuff. And you can get --

12 MALE PARTICIPANT: I also remember that  
13 there's other stuff stored in the spent fuel pool.

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: The old days of cobalt  
16 roller balls from the control rod blades, you  
17 (inaudible) and stored in buckets.

18 MALE PARTICIPANT: Right. Fission  
19 products that collect along the wall inside the  
20 reactor building, blowing outside the reactor  
21 building, anything is possible. A 40 rem dose on a  
22 smear is something you can't find in a operating  
23 powerplant, or you used to in the spent fuel, so --

24 MALE PARTICIPANT: The question is,  
25 though, you know, I mean, is the point of the

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1 discussion to say we think all the fuel is still in  
2 the reactor? Or it's --

3 MALE PARTICIPANT: I don't think it  
4 matters. I mean, that's --

5 MALE PARTICIPANT: The purpose of this  
6 exercise is just to give them an idea for them to  
7 strategically lay the pipe. I mean, that's the -- so  
8 I don't think it's really -- we really need to dicker  
9 over whether it's fuel pellets or whatever the source  
10 is. The purpose is to give them an idea of the best  
11 route to lay the piping.

12 MALE PARTICIPANT: That's right.

13 MALE PARTICIPANT: You know, and along  
14 those grounds, one of the major requests that we had  
15 this morning at the Ministry of Defense is, you know,  
16 any and all robotics that we have with dose set, with  
17 dose measurement, with video cameras, et cetera, they  
18 want to be able to road map the site and the  
19 buildings, et cetera, so they can come up with  
20 pathways for their employees to go to minimize dose.

21 MALE PARTICIPANT: Has that request gotten  
22 to U.S. Forces? Because, I mean --

23 MALE PARTICIPANT: No. I mean, it just  
24 came to us from the meeting with the Ministry of  
25 Defense today.

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1 MALE PARTICIPANT: I'd get that one to  
2 USFJ because I would think they'd have robotics. And  
3 I'm not sure in terms of --

4 MALE PARTICIPANT: I mean, all the  
5 national labs have it, that kind of stuff. I mean, we  
6 would typically give the request to you guys, and then  
7 you would then send it out.

8 MALE PARTICIPANT: Yeah, I would --

9 MALE PARTICIPANT: I mean, now we're not  
10 -- I think the pathway for these requests, it comes  
11 into us and we give --

12 MALE PARTICIPANT: I figure it goes back  
13 to Tim's issue about they have asked for project  
14 management --

15 MALE PARTICIPANT: Right.

16 MALE PARTICIPANT: -- and, you know, we  
17 need it, because we are -- we are doing things here,  
18 because we are in proximity to DITTRA and the U.S.  
19 Forces, and, you know, we can just go up to the  
20 Ambassador's office and there is the head of everybody  
21 up there.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: You know, and so we are  
24 working things, and you guys are working things, and,  
25 you know, we somehow -- and soon, if we get a couple

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1 of U.S. Forces people here on our team, that will help  
2 us with the Ministry of Defense. So we just need to  
3 get some kind of project management going on that, you  
4 know, is my suggestion. Marty, I don't know if --

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: -- area or somebody,  
7 you know, but you need to get some subgroups that are  
8 working on that.

9 MALE PARTICIPANT: So you guys are  
10 thinking that the best role would be you guys deliver  
11 the needs to us, and then our team works with our  
12 liaison to get -- find out who is going to meet that  
13 need? Is that how you would --

14 MALE PARTICIPANT: I think we have to work  
15 together, because you're going to have a couple of  
16 U.S. Forces people working with the Ministry of  
17 Defense and other people.

18 MALE PARTICIPANT: Right.

19 MALE PARTICIPANT: They are not going to  
20 want to call the -- or come to us and call the  
21 headquarters operations center --

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: -- to get -- because  
24 these guys are going to be the U.S. military.

25 MALE PARTICIPANT: Right.

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1 MALE PARTICIPANT: And they are going to  
2 go directly to their links --

3 MALE PARTICIPANT: Right.

4 MALE PARTICIPANT: -- and get stuff.

5 MALE PARTICIPANT: I mean, once we have  
6 those people positioned in our team, yeah, they will  
7 be able to do it. But right now, we don't have a  
8 liaison team, we don't have connections with the  
9 Department of Defense and all of these things  
10 established. I think the way it currently is is  
11 headquarters has all of those connections and reaches  
12 out to the broader government.

13 So, I mean, once we have just people from  
14 U.S. Special Forces Japan with us, you know, we can  
15 (inaudible). But as of now, you know -- you know, we  
16 don't have the telecommunications, we don't have the  
17 contacts to --

18 MALE PARTICIPANT: So now we have a tasker  
19 to go out and look for robotics, project management  
20 skills.

21 MALE PARTICIPANT: I mean, there is the  
22 request for the [REDACTED] [REDACTED] [REDACTED]  
23 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
24 [REDACTED]

25 MALE PARTICIPANT: Here is what I would

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1 suggest is is that we get a liaison team that consists  
2 of you guys --

3 MALE PARTICIPANT: Right.

4 MALE PARTICIPANT: -- and somebody off of  
5 this team --

6 MALE PARTICIPANT: Right.

7 MALE PARTICIPANT: -- who will reach out  
8 to the U.S. Forces people that have come on this team,  
9 or the Ministry of Defense, and work as a group to  
10 make sure that we are coordinated and organized, and  
11 figure out who gets what tasking, because like the  
12 [REDACTED] [REDACTED], there is no point in us telling you  
13 that we want [REDACTED] [REDACTED] when we've got U.S. Forces  
14 sitting right next to us.

15 MALE PARTICIPANT: Right, right.

16 TOM: This is Tom (inaudible). I'm the  
17 liaison team director. Who do you want me to work  
18 with on your team?

19 MALE PARTICIPANT: Tim Colvin.

20 TOM: Got it.

21 MALE PARTICIPANT: And when the U.S.  
22 Forces people get here, you know, we will have -- Tim  
23 will coordinate between the Ministry of Defense and  
24 the U.S. Forces people, and the NRC headquarters  
25 operations officers, and you guys.

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1 MALE PARTICIPANT: We'll get --

2 MALE PARTICIPANT: And you'll be the point  
3 of contact for all of that. And we -- if you could  
4 support him, or let's let U.S. Forces and Tim decide  
5 who does the project management, you know, keeps track  
6 of the request, keeps track of what is moving where,  
7 you know, status updates, all of that logistical -- I  
8 mean, the best logistical people are DoD people,  
9 right? So we'll get -- you know, hopefully, they will  
10 be able to give us a project manager from DoD.

11 MALE PARTICIPANT: Okay..

12 MALE PARTICIPANT: So we can -- you know,  
13 timing of equipment, what kind of equipment, keep a  
14 punch list of what is needed, all that stuff. So  
15 we've got Tim and U.S. Forces Japan. Are we okay with  
16 that?

17 MALE PARTICIPANT: Yes. Make a plan for  
18 that and work through USAID for the --

19 MALE PARTICIPANT: I will contact the  
20 liaison team once I get the couple of contacts lined  
21 up here at -- down here and we'll get together on a  
22 phone call.

23 MALE PARTICIPANT: We offered and reached  
24 out I guess through the Embassy here already to U.S.  
25 Special Forces Japan to have at least one person, you

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1 know, on our team to --

2 MALE PARTICIPANT: I think they are going  
3 to send two.

4 MALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: Because they want to do  
6 24/7, and they want -- they've been wanting to send  
7 two people, and that was yesterday, and we didn't  
8 really -- you know, we didn't really warm up to that  
9 idea until today. Now we realize, yeah, they're  
10 right, they need to come in and help us.

11 TOM: This is Tom (inaudible) again. Is  
12 there somebody from USAID that you are connected with?

13 MALE PARTICIPANT: There is a USAID  
14 officer here that we are connected with who is -- by  
15 the way is very effective, and so we can get USAID --  
16 I'll have Tim get with U.S. Forces and USAID.

17 MALE PARTICIPANT: Okay.

18 MALE PARTICIPANT: To get a team together  
19 in conjunction with you guys.

20 MALE PARTICIPANT: Yeah.

21 MALE PARTICIPANT: And then we can figure  
22 out what role we have -- what roles and  
23 responsibilities and project management.

24 MALE PARTICIPANT: All right. Because we  
25 want to make sure we're aligned.

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1 MALE PARTICIPANT: All right.

2 MALE PARTICIPANT: Yes, right. So Tim is  
3 leading that effort.

4 MALE PARTICIPANT: Got it.

5 MALE PARTICIPANT: Okay?

6 MALE PARTICIPANT: And Tim has got his  
7 Blackberry, right?

8 MALE PARTICIPANT: Yep.

9 MALE PARTICIPANT: Okay. We'll be using  
10 that at least initially.

11 MALE PARTICIPANT: All right. And sorry  
12 to wake you guys up.

13 MALE PARTICIPANT: That's okay. I was  
14 just wondering, what else is on your list? Do you  
15 think they've got enough dosimetry?

16 MALE PARTICIPANT: That was on the request  
17 that we sent yesterday I think, last night, back to  
18 the HOO (phonetic). There was a two-page list, and I  
19 think on that list was a -- was dosimetry.

20 MALE PARTICIPANT: Do we know where  
21 (inaudible)?

22 MALE PARTICIPANT: It came from TEPCO.

23 MALE PARTICIPANT: That two-page list is  
24 not something I saw. None of us got any turnover on  
25 the two-page list. I think --

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1 MALE PARTICIPANT: Yeah, it was about  
2 10:00 last night we sent it in, we thought. We can  
3 send it -- we'll send it again.

4 MALE PARTICIPANT: Yeah, please do. And  
5 make sure that it's on the liaison team, LI --

6 MALE PARTICIPANT: And some of it's OBE,  
7 but -- and we might be able to cross off. But one of  
8 the things, they wanted survey meters and  
9 decontamination equipment, and some of this is OBE.  
10 And, for instance, they asked for environmental  
11 monitoring, which we already got.

12 FRMAT (phonetic) is already there. They  
13 are asking for protecting clothing, charcoal mats,  
14 socks, shoes, gloves, generators. I mean, there's a  
15 whole list, two lists of stuff -- robots, all that  
16 stuff. I thought, you know, maybe we had a breakdown,  
17 but we thought we checked this in last night.

18 MALE PARTICIPANT: Yeah. Actually, now  
19 that -- some of that equipment you mention on here I  
20 did see. All right? We do have that.

21 MALE PARTICIPANT: If you wanted to send  
22 the list to LIA-07, that's our liaison team, and she  
23 will forward that out to the rest of the team, so we  
24 all know that we got the same list. But LIA-07.

25 MALE PARTICIPANT: On the --

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1 MALE PARTICIPANT: If you want to cross  
2 off what has already been taken care of, or no longer  
3 needed, that would be helpful to us, too.

4 MALE PARTICIPANT: Yeah, yeah.

5 MALE PARTICIPANT: Updated list, okay.  
6 Thank you.

7 MALE PARTICIPANT: Okay, guys. Hey,  
8 thanks. You guys can get back to (inaudible) or  
9 whatever it is.

10 (Laughter.)

11 MALE PARTICIPANT: Correction on that  
12 e-mail.

13 MALE PARTICIPANT: Hey, Chuck, let -- go  
14 ahead.

15 MALE PARTICIPANT: LIA-07.

16 MALE PARTICIPANT: Let's be accurate.  
17 Yep, that's --

18 MALE PARTICIPANT: LIA-07.

19 MALE PARTICIPANT: 07.

20 MALE PARTICIPANT: She is going to send  
21 you a test e-mail, so you'll have that.

22 FEMALE PARTICIPANT: (Inaudible.)

23 MALE PARTICIPANT: And it's where the  
24 status update will be coming from. If you look at  
25 your status update, that's the same e-mail that that's

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1 coming from.

2 MALE PARTICIPANT: Chuck?

3 MALE PARTICIPANT: I think we're -- you  
4 know, we are going to probably have a team meeting  
5 next, and it looks like we've got a few minutes --  
6 we've got a little bit of time here until the next  
7 crisis to catch our breath.

8 So we're going to figure out what we need  
9 to do about people, and, you know, they -- they will  
10 -- I think we stood down for a couple of hours last  
11 night and they were not happy about it, so I've got to  
12 make sure we've got somebody here.

13 MALE PARTICIPANT: Okay.

14 MALE PARTICIPANT: So I think someone --  
15 you know, from 5:00 until -- I got here at 4:45 or  
16 something like that. But from 3:00 to 4:45, there was  
17 about an hour and 45 minutes I don't think there was  
18 anybody here. John left at 3:00 --

19 MALE PARTICIPANT: We left about 3:30,  
20 yes.

21 MALE PARTICIPANT: Yeah, and I got here  
22 like 4:45, and they were like, "Where have you guys  
23 been?" You know, so we've got to make sure we have  
24 24/7 coverage.

25 MALE PARTICIPANT: Break it up into

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1 shifts.

2 MALE PARTICIPANT: Hey, Chuck, is that --

3 MALE PARTICIPANT: The bad part was it was  
4 just -- you know, everybody had flown in yesterday,  
5 and it was --

6 MALE PARTICIPANT: Hot.

7 MALE PARTICIPANT: Yeah, we were all  
8 tired.

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24 MR. VIRGILIO: Yeah.

25 MALE PARTICIPANT: Yeah.

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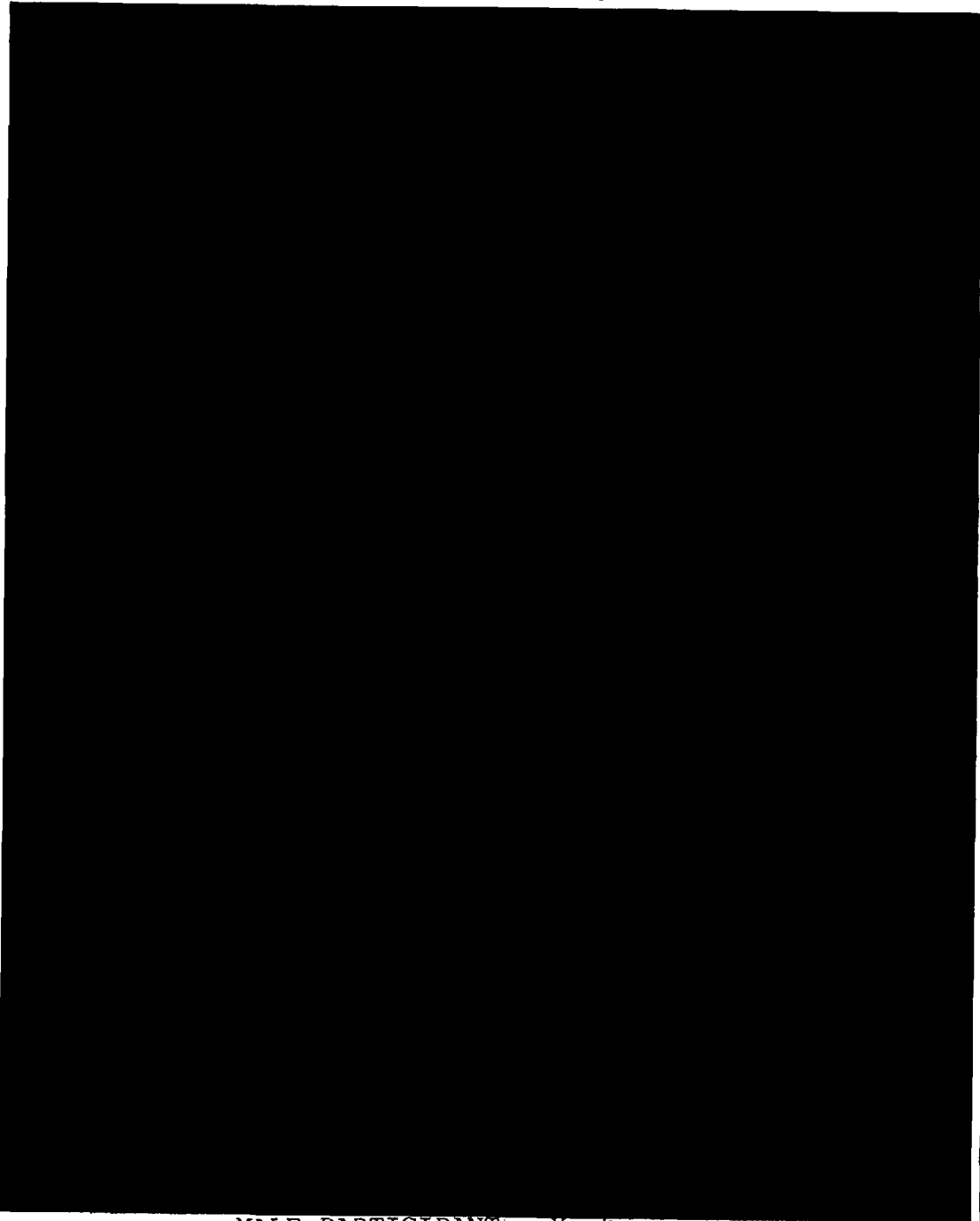
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1 MR. VIRGILIO: So he's got that now,  
2 obviously. Is there any other things that he believes  
3 he needs?

4 MALE PARTICIPANT: You know, he needs us  
5 to get water up there is what his priority is for us.

6 MR. VIRGILIO: All right.



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25 MALE PARTICIPANT: Yeah.

5

1 MALE PARTICIPANT: All right.

2 MALE PARTICIPANT: Now, how are they  
3 dealing with the rest of the Americans? You said half  
4 of the flights are reserved for Embassy personnel, and  
5 the other half for U.S. citizens that are there in  
6 Japan.

7 MALE PARTICIPANT: Right.

8 MALE PARTICIPANT: Do you have any  
9 insights as to -- there was a set of Qs and As that  
10 was developed by the White House, and basically it  
11 says that, you know, U.S. citizens need to make their  
12 own decisions.

13 MALE PARTICIPANT: Yeah, that's right.  
14 It's voluntary, so they're making their own decisions.  
15 However, the government, the U.S. Government, is  
16 making charter flights available as much as they can.

17 MALE PARTICIPANT: They're giving them per  
18 diem and lodging --

19 MALE PARTICIPANT: No, that's for the  
20 dependents. Yeah, he is -- Marty is talking about  
21 other American citizens here.

22 MALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: Yeah. They're making  
24 flights available to the other people who just want to  
25 call in and sign up. And, I mean, it's incredible.

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1 You can actually see people, particularly Embassy  
2 people, right outside the Embassy here there is -- the  
3 sidewalks are full of people with suitcases.

4 MALE PARTICIPANT: Right.

5 MALE PARTICIPANT: You know, they're  
6 getting the hell out of here, to be frank about it,  
7 and --

8 MALE PARTICIPANT: For the (inaudible)  
9 that are not tied to the Embassy, are they getting a  
10 free ride home, too?

11 MALE PARTICIPANT: Yeah.

12 MALE PARTICIPANT: Oh, good.

13 MALE PARTICIPANT: Yeah, and that -- you  
14 know, half of the plane will be people -- no, I am  
15 sorry. I'm not right about that, I apologize.

16 MALE PARTICIPANT: Full fare for --

17 MALE PARTICIPANT: Yeah. They have to pay  
18 full fare economy class. Yeah, that's right. I'm not  
19 right. They aren't getting a free ride home. They're  
20 paying full fare economy class.

21 MALE PARTICIPANT: Which you said is not  
22 going to be a bargain, but there is no ticket that  
23 they're going to find out there commercially.

24 MALE PARTICIPANT: Right, right.

25 MALE PARTICIPANT: So this gives them a

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1 reserved seat if they get moving.

2 MALE PARTICIPANT: Okay. Thank you.

3 MALE PARTICIPANT: Okay. Thank you.

4 MALE PARTICIPANT: Thanks.

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1 (CONFERENCE CALL INITIATED)

2 MR. VIRGILIO: This is Marty Virgilio.  
3 Hello?

4 MALE PARTICIPANT: Brian, are you there?

5 BRIAN: I am, and I've got you on the  
6 speakerphone here in our ERC. We've got a small team  
7 assembled.

8 MR. VIRGILIO: Great. This is Marty  
9 Virgilio, and we're on a speakerphone, too, in our ops  
10 center. And we're just following up to try to  
11 reestablish a connection.

12 I talked to [REDACTED] [REDACTED] yesterday evening,  
13 and, you know, [REDACTED] reiterated his commitment to  
14 supporting us in this effort, and, you know, reminded  
15 me that, you know, you all have the availability of  
16 resources from the powerplant's utilities. And we  
17 just got a shopping list from our team in Japan, and  
18 we will start coordinating with you on that to see if  
19 there is anything on the list that you all might be  
20 able to provide.

21 MALE PARTICIPANT: Okay. And we have been  
22 fielding the requests coming back through us from the  
23 folks at Tokyo center. I'm not sure if there's  
24 overlap on those lists or not, but go ahead.

25 MR. VIRGILIO: Yeah. We're not -- go

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1 ahead. We can fix this to you or e-mail it to you.  
2 Which would be your preference?

3 MALE PARTICIPANT: E-mail would be  
4 preferred.

5 MR. VIRGILIO: Great. And can I get an  
6 e-mail address, please?

7 MALE PARTICIPANT: Yes. We'd prefer you  
8 send it directly into the emergency response center,  
9 and that e-mail would be --- I guess it's all lower  
10 case, inpoerc. Let me spell it phonetically that's  
11 India, November, papa, Oscar, echo, Romeo, Charlie at  
12 inpo.org, O-R-G.

13 MR. VIRGILIO: I-N-P-O-E-R-C at I-N-P-O  
14 dot org.

15 MALE PARTICIPANT: That's correct. Again,  
16 that's India, November, papa, Oscar.

17 MR. VIRGILIO: Understand. And we'll get  
18 this list to you shortly.

19 MALE PARTICIPANT: (Inaudible.)

20 MR. VIRGILIO: Fred, there was another  
21 issue, and that was that when I talked to [REDACTED] he  
22 also expressed an interest in providing support to our  
23 team in terms of having an individual from INPO  
24 embedded in our group over in Japan.

25 MALE PARTICIPANT: Okay.

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1 MR. VIRGILIO: And we talked to the team  
2 lead, Chuck Casto, and he is pretty enthusiastic about  
3 that notion. And so what I think we need to do is  
4 have a followup conversation between you and Chuck as  
5 to what skill sets you have available, and how does  
6 that match his interests and needs?

7 MALE PARTICIPANT: I think that would be  
8 appropriate. I know in my turnover, you know, there  
9 is discussion that we are going to be supporting the  
10 WANO/HUKIO (phonetic) center. That sounds  
11 different --

12 MR. VIRGILIO: Yes.

13 MALE PARTICIPANT: -- from what you've  
14 described.

15 MR. VIRGILIO: Yes, it is. And [REDACTED]  
16 -- yes, it is very different.

17 MALE PARTICIPANT: Yes. So a good rundown  
18 of the skill sets that you are looking for, and then  
19 we can take that back to our folks and, you know, do a  
20 followup with you just as quickly as we are able. And  
21 it may not be, you know, within minutes. It may be  
22 hours.

23 MR. VIRGILIO: Oh, that's fine. I mean,  
24 you know, this is -- I mean, we are going to be in  
25 there for a while, so we will --

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1 MALE PARTICIPANT: Do you have (inaudible)  
2 connect in with Jeff?

3 MALE PARTICIPANT: Well, how about if we  
4 send Jeff an e-mail asking for the skill sets and a  
5 copy of INPO (inaudible).

6 MALE PARTICIPANT: That would work, and  
7 then, you know, we will get it to our resource folks  
8 and run it from there. We are soliciting through the  
9 organization, just to kind of get a better pulse of  
10 what skill sets we, you know, have -- we would be able  
11 to provide.

12 MALE PARTICIPANT: Yeah, we independently  
13 got a message from from Mike Slobadin (phonetic) that  
14 said, "Hey, I -- I'm here to help if you need somebody  
15 that has TMI experience." And so we pointed him your  
16 way, so you may have several other people that have  
17 offered their services in that direction.

18 MALE PARTICIPANT: Okay. Well, yeah, send  
19 that, and we will -- we will get back to you, you  
20 know, just as soon as we have got something to give  
21 you.

22 MALE PARTICIPANT: And it occurred to me  
23 on point 1, if you look at the list that we're faxing  
24 you and you determine that you are already working on  
25 some of the stuff on that list, it would be useful

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1 information to us, so we don't go to try to duplicate  
2 that somehow.

3 MALE PARTICIPANT: Yeah, it would. And as  
4 soon as we get that e-mail, we'll take a look at it,  
5 compare it with what we've got in the works, and we  
6 can get that answer back to you, you know, in minutes.

7 MR. VIRGILIO: Okay. And the third thing  
8 was that when I talked to [REDACTED] he offered to try  
9 to get us better access through INPO to TEPCO. And I  
10 don't know what ever became of that, but he was going  
11 to make some phone calls.

12 I understood that the head of WANO was in  
13 Atlanta, and he was going to be talking to him, and  
14 that he said if that doesn't provide us access that he  
15 [REDACTED] -- was going to contact INPO in Tokyo to  
16 see if he could get us better access to some of the  
17 information that WANO was getting from TEPCO.

18 MALE PARTICIPANT: Okay. So I understood  
19 what you said, not crystal clear what action you need  
20 me to take right now.

21 MR. VIRGILIO: Well, I don't know that  
22 it's immediate, but maybe in the morning to have  
23 somebody, when you turn over --

24 MALE PARTICIPANT: Okay.

25 MR. VIRGILIO: -- to touch base with [REDACTED]

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1 [REDACTED] and see if he was able to get any in-roads with  
2 -- with WANO and TEPCO.

3 MALE PARTICIPANT: Yeah. And, again, in  
4 my turnover there is -- there are some things going on  
5 down in WANO, but I'm not -- I'm not completely up to  
6 speed on just what they are.

7 MR. VIRGILIO: Okay.

8 MALE PARTICIPANT: And it may be -- it may  
9 be, you know, sort of addressing some of your desires.

10 I don't know that. But we will -- we will pass that  
11 on, and we've got a member of our senior leadership  
12 team coming in here shortly, and we will share that  
13 and leave that as an issue that needs to be resolved.

14 MR. VIRGILIO: Great, thanks.

15 MALE PARTICIPANT: Now, what is -- other  
16 than an e-mail back, what is our best contact for you  
17 folks?

18 MALE PARTICIPANT: I would come into the  
19 headquarter operation.

20 MALE PARTICIPANT: Yeah, 301-816 --

21 MALE PARTICIPANT: 301-816 --

22 MALE PARTICIPANT: -- 5100.

23 MALE PARTICIPANT: -- 5100.

24 MALE PARTICIPANT: That's our operations  
25 center.

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1 MALE PARTICIPANT: Okay.

2 MALE PARTICIPANT: And that's 24/7, so you  
3 can get back to us like that.

4 MALE PARTICIPANT: Okay. So just go to  
5 the -- just go right back to the operations center and  
6 work it from there.

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Yes, Fred, what they'll  
9 do is you'll get into the operations officer, and just  
10 tell them you want to talk to the executive team and  
11 they'll patch you through to me, and I'll put you up  
12 on the bridge.

13 MALE PARTICIPANT: All right. So we will  
14 call the headquarters number and ask to get back to  
15 the executive team.

16 MALE PARTICIPANT: Right. And then, the  
17 e-mail, you will have that as well with the liaison  
18 team e-mail, but you will get it when you get our fax,  
19 or our e-mail rather, of the list. Okay?

20 MALE PARTICIPANT: We'll be looking for  
21 that. Gentlemen, is there anything else?

22 MALE PARTICIPANT: No, that's about it.

23 MALE PARTICIPANT: Okay. So let me just  
24 kind of recap. We've got our eyes out for an e-mail  
25 list of equipment that is needed. We will work that

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1 against our list to see what is in the pipeline and  
2 take that for action as appropriate. We will look for  
3 the e-mail listing, required skill sets, for sort of  
4 an embedded INPO liaison with Chuck Casto and his  
5 team.

6 And you mentioned that was a DART team.  
7 Not crystal clear exactly what DART stands for, but  
8 Chuck Casta is the lead on that.

9 And then, the third thing was follow up on  
10 the conversation that we had earlier yesterday, I  
11 guess you said, with [REDACTED] regarding better access  
12 through INPO into -- INPO or WANO into TEPCO. 6

13 MALE PARTICIPANT: Right, right.

14 MALE PARTICIPANT: Okay.

15 MALE PARTICIPANT: Thanks, Fred.

16 MALE PARTICIPANT: Gentlemen, thank you  
17 much. We are looking for the e-mail.

18 MR. VIRGILIO: All righty.  
19  
20  
21  
22  
23  
24  
25

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1 (CONFERENCE CALL INITIATED)

2 MR. VIRGILIO: (Inaudible.)

3 MR. CASTO: Hi, is this Marty?

4 MR. VIRGILIO: Yes.

5 MR. CASTO: Hey, this is Chuck Casto  
6 (inaudible).

7 MR. VIRGILIO: Hi, Chuck.

8 MR. CASTO: Hey. I like this -- I get to  
9 manage up a little bit. Could you do me a favor  
10 and --

11 MR. VIRGILIO: Sure.

12 MR. CASTO: -- could you run interference  
13 for me on something?

14 MR. VIRGILIO: Yeah, go ahead.

15 MR. CASTO: Yeah. I don't know who the  
16 guy is. He called. He is Deputy Secretary of Energy.  
17 He called the ops center, so they got his name. He  
18 didn't give me a chance to get his name. He wants to  
19 bring in -- he wants to supplement the team with a  
20 bunch of DOE folks, and -- you know, and industry  
21 scientists and stuff.

22 You know, I told him to give you a call,  
23 the ops center, and, you know, that -- and I also told  
24 him, you know, the DOE people here are doing a  
25 tremendous job. They are giving us all the support we

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need, and they are, actually, doing a very good job.

But I -- you know, and we are crawling right now in terms of coordination with the Ministry, and I went through all of the reactor status with him and all that stuff. And we are coordinating with the Ministry, but we are crawling in that.

You know, we just started that this morning, and we are crawling, and, you know, I think that when we start walking and running -- and I think he has also talked to the Ambassador, because the Ambassador mentioned something about this to me, and I told him that -- I shared with him I thought we were crawling, you know, and maybe when we get started running we could use those people.

MR. VIRGILIO: Yeah.

MR. CASTO: But I'm not sure they are going to be helpful right now. You know, I can't -- I just can't imagine this team growing by DOE size.

MR. VIRGILIO: Yeah

MR. CASTO: You know, so if you would run some interference there on it, that would be helpful.

MR. VIRGILIO: All right. We'll get on  
it.

MR. CASTO: I mean, we can use him if --  
you know, if we can -- if they can liaison with you

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1 guys or something, I mean, you know, we've got to -- I  
2 hate to tell any Secretary of DOE that -- Deputy  
3 Secretary that "Thanks, but no thanks." But I tried  
4 to do it in -- you know, that -- maybe I shouldn't say  
5 that, but --

6 MR. VIRGILIO: No, no, that's good. We  
7 can follow up with Steve Lyons (phonetic). I wonder  
8 if these folks work for him.

9 MR. CASTO: Yeah, I think that's kind of  
10 the -- you know, and they are going to be helpful.  
11 They are going to be helpful in -- you know, down the  
12 road, and we appreciate the help, but, you know, not  
13 right this -- not right now.

14 MR. VIRGILIO: Okay. The other thing that  
15 we -- we talked to INPO just a little while ago --

16 MR. CASTO: Yeah.

17 MR. VIRGILIO: -- sent them the list that  
18 you provided to us to see if there is low-hanging  
19 fruit for them on that list. They have offered on  
20 more than one occasion to provide whatever hardware we  
21 need, that they would -- they would get it through the  
22 U.S. industry.

23 FEMALE PARTICIPANT: This is from [REDACTED]

24 [REDACTED]  
25 MR. VIRGILIO: But Tom Blount is working

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1 that. They have -- you'll recall yesterday we talked  
2 about INPO offering to send you somebody if you wanted  
3 somebody.

4 FEMALE PARTICIPANT: Yeah.

5 MR. VIRGILIO: And so we are going to, at  
6 some point, try to connect you and INPO to find out if  
7 there is a skill that you want that they've got.

8 MR. CASTO: Okay. That's probably going  
9 to -- that goes along with the DOE people. You know,  
10 I think --

11 MR. VIRGILIO: Not today, but, you know,  
12 maybe down the road.

13 MR. CASTO: No. What I mean is if we  
14 could connect INPO and DOE -- and I talked to them  
15 about what we -- I talked to the Assistant Secretary  
16 or -- about the core melt, you know, about the reactor  
17 stuff, and it -- you know, if you could run your  
18 models and tell us, you know, like right now the  
19 reactors aren't urgent for us, because it --

20 MR. VIRGILIO: Right.

21 MR. CASTO: -- seems like seawater cooling  
22 is working.

23 MR. VIRGILIO: Yeah.

24 MR. CASTO: But nevertheless, you know,  
25 sooner or later somebody is going to have to do

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1 something, and DOE I'm sure will have a big piece of  
2 whatever it is that's done after the initial response  
3 is over with. They're going to have -- they're going  
4 to be a big player in that, like, you know, Three Mile  
5 Island or -- so -- or Chernobyl. So they will have a  
6 big role to play.

7 MR. VIRGILIO: Right, right. And then, we  
8 also reminded INPO that they were going to see if they  
9 could get you better access to data through WANO and  
10 TEPCO.

11 MR. CASTO: Yeah, it's at the back door.  
12 Yeah.

13 MR. VIRGILIO: Yeah. So they're working  
14 those three issues for us.

15 MR. CASTO: Great.

16 MR. VIRGILIO: And we'll follow up with  
17 DOE.

18 MR. CASTO: Okay. I just wanted to give  
19 you a heads up on that, that's all. I don't think I  
20 have anything new.

21 MR. VIRGILIO: Okay.

22 MR. CASTO: No new status other than that.

23 MR. VIRGILIO: All right. The other thing  
24 that I -- you know, we didn't mention when we were  
25 talking, but what Mike Case and the reactor safety

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1 team was working on is they have been coordinating  
2 with Bechtel on how they could best use that equipment  
3 that is being delivered. I don't know if you were in  
4 that loop or not.

5 MR. CASTO: No, I wasn't. I wasn't. But  
6 we either have people that were, or I can get somebody  
7 that is.

8 MR. VIRGILIO: Okay.

9 MR. CASTO: Tim and John Moninger have  
10 been working that.

11 MR. VIRGILIO: Right. Because I heard  
12 John Moninger talking about mockups and a few other  
13 things.

14 MR. CASTO: Right, right.

15 MR. VIRGILIO: And, you know, I'm sure  
16 that the Bechtel people could be somewhat helpful here  
17 with respect to the --

18 MR. CASTO: Okay. We've got some --

19 MR. VIRGILIO: -- (inaudible).

20 MR. CASTO: Okay. [REDACTED]

21 [REDACTED]. I'm going to go up and --

22 MR. VIRGILIO: All right.

23 MR. CASTO: -- look at that. [REDACTED]

24 [REDACTED]  
25 [REDACTED]

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[REDACTED]

MR. VIRGILIO: All right, good. We'll get the reactor safety team to reach out to your guys.

MR. CASTO: Yeah, get them to reach out to Tim.

MR. VIRGILIO: Okay.

ROB: Chuck, do you -- this is Rob. Do you know of any information on getting data from [REDACTED]

MR. CASTO: DOE promised it to us as soon as they get it downloaded and assessed.

MALE PARTICIPANT: Yes.

ROB: Okay.

MR. CASTO: And I'll say -- I think I'm going up by there now to go [REDACTED] [REDACTED] [REDACTED], and I'll check to see with them. [REDACTED] [REDACTED] [REDACTED] [REDACTED]

[REDACTED]

RICK: No, I don't.

MR. CASTO: Okay. We'll find that out.

ROB: Thank you.

MR. CASTO: Do what?

MALE PARTICIPANT: (Inaudible.)

MR. CASTO: Yes. Do we know where that's

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1 at?

2 MALE PARTICIPANT: It hasn't come in yet.

3 MALE PARTICIPANT: (Inaudible) DOE.

4 MR. CASTO: It hasn't come in yet, but  
5 Jack Foster is going to check with DOE and Rick, and  
6 check with DOE and see what the latest is on it.

7 MALE PARTICIPANT: (Inaudible) NARAC?

8 MR. CASTO: Yeah, NARAC.

9 MALE PARTICIPANT: (Inaudible.)

10 MR. CASTO: Okay. [REDACTED]

11 [REDACTED]

13 MALE PARTICIPANT: Thank you.

14 MALE PARTICIPANT: I think they're working  
15 on a rough draft now.

16 MALE PARTICIPANT: Did we get --

17 MR. CASTO: They're doing a rough cut of  
18 the assessment, and then they will provide us more.

19 MALE PARTICIPANT: We don't have the time  
20 to --

21 MR. CASTO: So in an hour or so we should  
22 have that. Okay. [REDACTED]

23 MALE PARTICIPANT: Okay.

24 MR. CASTO: All right. Bye.

25

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: You had asked about  
3 data for Chernobyl on the contamination in the -- we  
4 looked at this and this, and the (inaudible) this is  
5 very misleading, because this is not based on  
6 exposure. This is based on deposition and uptake.

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: (Inaudible.)

9 MALE PARTICIPANT: Well, same thing. Here  
10 is your deposition level of (inaudible): Now, if you  
11 want us to go through the trouble of --

12 (Multiple inaudible speakers.)

13 MALE PARTICIPANT: Yeah. I mean, it just  
14 shows you that the iodine and (inaudible) the name --

15 MALE PARTICIPANT: Oh, this is just  
16 showing the standards.

17 (Multiple inaudible speakers.)

18 MALE PARTICIPANT: I wouldn't do them all,  
19 but --

20 MALE PARTICIPANT: Yeah, just maybe one in  
21 California and (inaudible).

22 (Multiple inaudible speakers.)

23 MALE PARTICIPANT: Here we go. Portland.

24 (Multiple inaudible speakers.)

25 MALE PARTICIPANT: You've got to figure

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1 Haiti is probably (inaudible) because they have  
2 nothing to work with.

3 MALE PARTICIPANT: Haiti got 296 million  
4 in the first seven days.

5 MALE PARTICIPANT: They've also got a lot  
6 more than we (inaudible).

7 (Multiple inaudible speakers.)

8 MALE PARTICIPANT: I mean, it's certainly  
9 a larger earthquake, but the damage is all done. You  
10 know, it's the same as Japanese infrastructure  
11 (inaudible) better shape.

12 MALE PARTICIPANT: You can't be  
13 (inaudible).

14 MALE PARTICIPANT: Yeah, you can't be in  
15 good shape to handle a tsunami, but it wasn't as  
16 (inaudible).

17 (Multiple inaudible speakers.)

18 MALE PARTICIPANT: Remind me of who we are  
19 supposed to provide the notebook to. I know that data  
20 (inaudible).

21 MALE PARTICIPANT: (Inaudible.)

22 MALE PARTICIPANT: We're going to get a  
23 courier take it down and deliver it to Josh Matkin  
24 (phonetic) and (inaudible), but --

25 MALE PARTICIPANT: (Inaudible.)

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1 MALE PARTICIPANT: Yes. We're going to  
2 wait probably until a little bit more of a decent  
3 hour, but we have an action item that's (inaudible).

4 MALE PARTICIPANT: Do we -- do you have a  
5 current action item list, or -- we don't have an  
6 action tracking --

7 MALE PARTICIPANT: No. Both myself and  
8 Rebecca are adding (inaudible). So stuff that we've  
9 been talking about tonight and (inaudible).

10 MALE PARTICIPANT: Can I get a look at  
11 that? I can get Rebecca to do it if you want.

12 MALE PARTICIPANT: I guess there ain't  
13 much more to (inaudible).

14 MALE PARTICIPANT: I sent the list to  
15 (inaudible).

16 (Multiple inaudible speakers.)

17 MALE PARTICIPANT: Yeah, that'll do it.

18 MALE PARTICIPANT: Okay. We sent the list  
19 to him, so (inaudible).

20 MALE PARTICIPANT: I'm trying to get  
21 (inaudible).

22 (Multiple inaudible speakers.)

23 MALE PARTICIPANT: Yeah, we had some guy  
24 yesterday (inaudible).

25 (Multiple inaudible speakers.)

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1 MALE PARTICIPANT: So it's really  
2 important that you get (inaudible) -- I guess it's Tim  
3 Colvin (inaudible). And then --

4 MALE PARTICIPANT: We're trying to make  
5 that connection with them beforehand, so that he has  
6 that (inaudible).

7 (Multiple inaudible speakers.)

8 MALE PARTICIPANT: From whom and to whom,  
9 yeah.

10 (Multiple inaudible speakers.)

11 MALE PARTICIPANT: (Inaudible.) It just  
12 happened that I got a new laptop, and I got a really  
13 great plan. I had an unlimited data plan for \$20 a  
14 month -- \$40 a month with this. I got a good deal.  
15 It wasn't (inaudible).

16 MALE PARTICIPANT: Well, I'm trying to  
17 take care of you, Dan, but this -- this here is the  
18 watch fill, and it has you on TNT and the list of  
19 (inaudible), so you might want to just take a look at  
20 where you want to be. The situation has degraded  
21 since I got here.

22 (Laughter.)

23 They have you on every watch team out here  
24 now.

25 MALE PARTICIPANT: No problem.

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1 MALE PARTICIPANT: Superman.

2 MALE PARTICIPANT: (Inaudible).

3 MALE PARTICIPANT: Look at TNT. Is that  
4 right, can you stand on watch (inaudible)? Are you  
5 going to (inaudible)? Because it's -- because it --

6 MALE PARTICIPANT: They put me off of  
7 there, because --

8 MALE PARTICIPANT: (Inaudible.)

9 MALE PARTICIPANT: And I was planning --  
10 when Bill called me on Sunday, he said he -- 11:00 to  
11 7:00 Monday to Friday, but that's what I was planning  
12 on anyway, so it's just taking up my Friday.

13 MALE PARTICIPANT: Okay.

14 MALE PARTICIPANT: I knew that was  
15 (inaudible) had me down tomorrow 7:00 to 7:00  
16 (inaudible), because I guess they -- yeah, I hadn't  
17 planned on a 12-hour shift. I guess (inaudible) when  
18 I got here tonight, but it doesn't matter because  
19 (inaudible).

20 Yeah. I guess my understanding is  
21 (inaudible). I've got to figure out from his position  
22 (inaudible).

23 MALE PARTICIPANT: Okay. Well, if you  
24 want to mark it up, go ahead and mark that up, Benny.  
25 And, Rob, if you want to mark any of yours up.

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1 MALE PARTICIPANT: (Inaudible.) Well, it  
2 wasn't clear what (inaudible) of pool -- me, Donna,  
3 and Larry were (inaudible).

4 (Multiple inaudible speakers.)

5 MALE PARTICIPANT: I don't know. Sounds  
6 about right, but I don't know exactly.

7 MALE PARTICIPANT: (Inaudible.)

8 MALE PARTICIPANT: Well, that's the other  
9 discussion, that Scott Morrissey (phonetic) is not  
10 going to (inaudible). Should we be declaring this  
11 (inaudible)? We've essentially got everybody manned  
12 except for the Safeguards thing. And is there -- what  
13 is the distinction between activation and (inaudible)?

14 I'll have to get Jeff's readout on that, but the  
15 distinction between activation and monitoring as far  
16 as, are there any actions that we are required to do  
17 differently, or is it just an acknowledgement that you  
18 have a fully staffed center?

19 MALE PARTICIPANT: Well, of course, our  
20 response (inaudible) are designed more around the  
21 response to a nuclear powerplant here in the United  
22 States.

23 MALE PARTICIPANT: Right.

24 MALE PARTICIPANT: We're sort of a hybrid.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: We're staffed like --

2 MALE PARTICIPANT: Scott and I were  
3 talking earlier. I mean, essentially, we're  
4 activated. I mean, without calling it activation,  
5 that's essentially what we are. Headquarters is  
6 leading our response. We have our (inaudible)  
7 appropriate. And that's essentially what activation  
8 is.

9 Monitoring is designed so that the region  
10 has to wait for the event, and we are in support of  
11 them. And in (inaudible), when we have a (inaudible),  
12 technically --

13 MALE PARTICIPANT: We are almost in  
14 (inaudible) when we're in expanded activation, because  
15 technically --

16 MALE PARTICIPANT: Well, that would be --

17 MALE PARTICIPANT: -- we've got our --

18 MALE PARTICIPANT: -- delegated certain  
19 responsibilities, which we may have.

20 MALE PARTICIPANT: We are basically  
21 supporting the guys in Tokyo at this point.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: Essentially, we're at  
24 the highest level of our response.

25 MALE PARTICIPANT: The strategic thing

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1 about it is -- or something that helps what you were  
2 just talking about go down easier across all the  
3 offices is, well, if we're in activation mode, you  
4 know, that's -- no lie, we've got to support the ops  
5 center with a -- you know, with our people. Whereas,  
6 you have people right now saying, "Well, do I need to  
7 get somebody to that position? Why am I -- do I need  
8 to do that for monitoring?"

9 MALE PARTICIPANT: Yeah.

10 MALE PARTICIPANT: And if we're just in  
11 monitoring, why am I doing that? I mean, some people  
12 don't have any problem. They come in and --

13 MALE PARTICIPANT: Right.

14 MALE PARTICIPANT: -- we've got basically  
15 DBRs. Our division is basically (inaudible). Nobody  
16 is doing any work down there, except for Bob Gaylor  
17 (phonetic) doing the rulemaking (inaudible).

18 MALE PARTICIPANT: How about (inaudible)?

19 MALE PARTICIPANT: Yeah. Well, that's  
20 another (inaudible).

21 MALE PARTICIPANT: This is an actual --  
22 the application --

23 MALE PARTICIPANT: This is what we were  
24 going to do. (Inaudible.)

25 MALE PARTICIPANT: It is for us. But for

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1 the (inaudible) in multiple events, the licensees  
2 (inaudible) to participate in (inaudible).

3 MALE PARTICIPANT: So I don't know. Do  
4 you want to --

5 MALE PARTICIPANT: (Inaudible) end up with  
6 that after this is all said and done and, actually,  
7 (inaudible) better now.

8 MALE PARTICIPANT: Yeah, I think we might  
9 have to look at how much we (inaudible) in LE11,  
10 because do we have the resources to do that again in  
11 another --

12 MALE PARTICIPANT: Yeah. (Inaudible) same  
13 lessons that we did for them.

14 MALE PARTICIPANT: So what do you think  
15 about activation, though? Is there any -- is there  
16 any -- are there agency benefits to say we're in  
17 activation and kind of acknowledge where we are? Or  
18 should we just kind of keep it ad hoc?

19 MALE PARTICIPANT: I think it's a good  
20 discussion point for our (inaudible).

21 MALE PARTICIPANT: Yeah. It's -- to me,  
22 the down side of it is it gets away from Japanese  
23 investment (inaudible). We are not trying to solve  
24 the problem here. We're just (inaudible) what we have  
25 (inaudible).

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1 MALE PARTICIPANT: Mr. Chuck Casto is on  
2 the ET conference.

3 MALE PARTICIPANT: Hi, Chuck.

4 MR. CASTO: Hey, guys. We're getting a  
5 CIPRNET address from the reactor safety team, so you  
6 can guys can [REDACTED]

7 MALE PARTICIPANT: Oh, great.

8 MR. CASTO: And then, also, we've got the  
9 7th Fleet people working on telling us what we are  
10 [REDACTED] [REDACTED] With the equipment we have, you  
11 know, a regular computer, you can't really -- you  
12 can't really tell exactly what you're [REDACTED] [REDACTED]

13 [REDACTED]  
14 MALE PARTICIPANT: (Inaudible.)

15 MR. CASTO: Yeah.

16 MALE PARTICIPANT: We're looking at  
17 something that is like one (inaudible).

18 MALE PARTICIPANT: Drop off?

19 MR. CASTO: Yes, sir. I'm sorry. I got  
20 new information in my other ear. A couple of things.

21 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
22 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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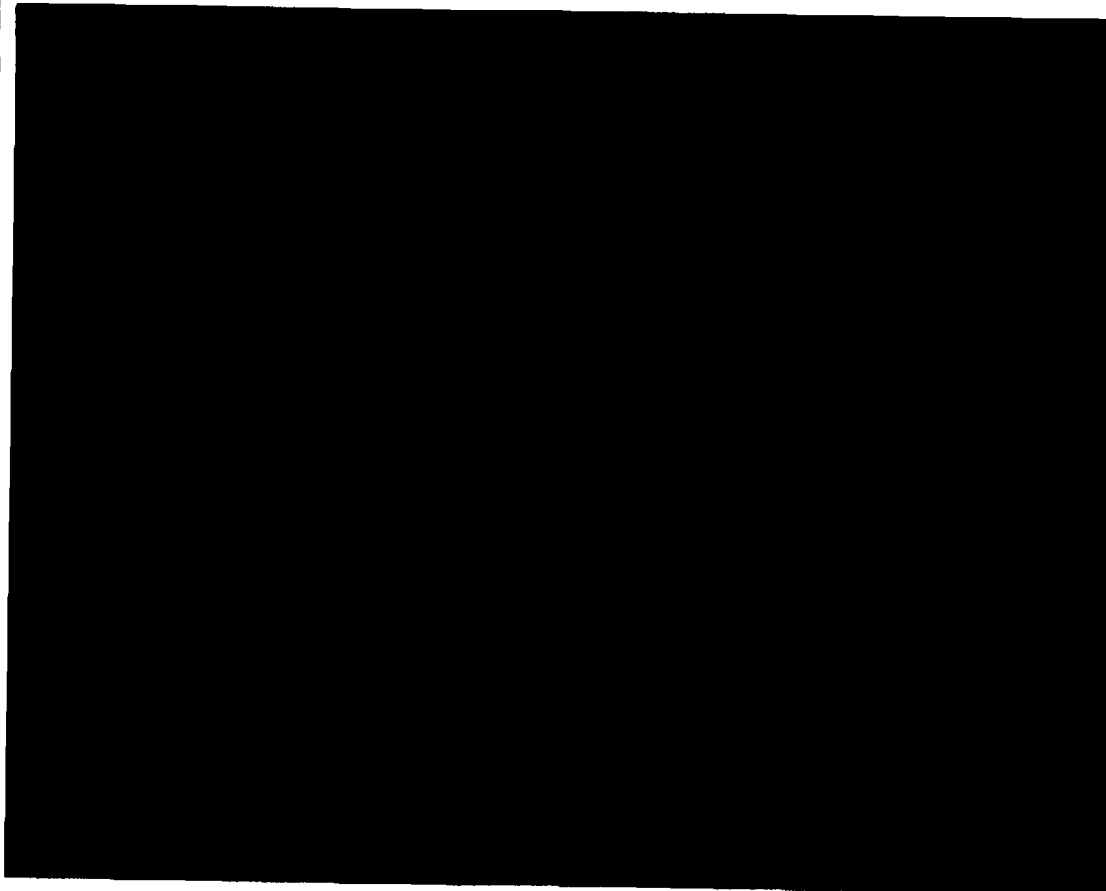
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MALE PARTICIPANT: All right.

MR. CASTO: So, and then we will tell you exactly when -- when the analyst gets this, calls us and tells us what is that -- what is going on with -- see if we can tell anything on Unit 4, then we'll let you know.

MALE PARTICIPANT: Okay.

MR. CASTO: Okay?

MALE PARTICIPANT: All right.

MR. CASTO: Talk to you soon.

MALE PARTICIPANT: Thanks.

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1 (CONFERENCE CALL INITIATED)

2 DAN: Good morning, Brian.

3 BRIAN: Good morning, Dan.

4 DAN: How are you?

5 BRIAN: All right. I'm just calling in to  
6 see what was -- can you bear with me a second?

7 DAN: Yes.

8 MALE PARTICIPANT: This is (inaudible)  
9 Unit 5 (inaudible).

10 MALE PARTICIPANT: Yeah. That's two-day  
11 old information.

12 MALE PARTICIPANT: Oh, this is accurate,  
13 that Unit 5 is providing --

14 MALE PARTICIPANT: That's the newer  
15 information.

16 MALE PARTICIPANT: (Inaudible.) So the  
17 unit is providing (inaudible).

18 MALE PARTICIPANT: That's the information  
19 we have.

20 BRIAN: Hey, Dan. This is Brian. I'm  
21 back.

22 DAN: Hey. We actually had a fairly quiet  
23 shift tonight.

24 BRIAN: Are you knocking on wood when you  
25 say that?

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1 DAN: Yes. I don't want to jinx the last  
2 hour and a half, but the facility status is similar to  
3 yesterday. The Japanese focuses more on Unit 3 than  
4 on Unit 4, and there is [REDACTED]

5 [REDACTED] They have had Japanese Self-  
6 Defense Force helicopters dropping water on Unit 3.  
7 Units 5 and 6 seem to have gotten the cooling back  
8 onto their pool using power from diesel in Unit 5.  
9 Things are pretty much where they were. (Inaudible.)

10 The pumps arrived at the site about seven  
11 hours ago, so the reactor safety team has been working  
12 with Bechtel and GE, looking at how to get those  
13 systems hooked up and start getting water continuously  
14 on this where it's needed, although I guess there are  
15 still some significant concerns at the site around the  
16 (inaudible) have to get that stuff in place.

17 BRIAN: What kind of dose rates are they  
18 seeing now, Dan, still about the same, or did they  
19 change?

20 DAN: They're still about the same in  
21 terms of in the 10 to 40 rem per hour range around  
22 some of the reactor buildings.

23 BRIAN: Did we get word that they are  
24 still pumping seawater to the reactors?

25 DAN: As far as we know, they are still

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1 pumping seawater to the reactors, and those seem to be  
2 stable. We've got some indications that each of the  
3 three reactors is -- the vessel, the very low  
4 pressure, with about half the fuel uncovered in all  
5 three, and no -- no pressure is indicated to the  
6 suppression pool.

7 The [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED] So  
11 that seems to support that information.

12 It looks like we've got another spike up  
13 at the front gate, though. We're getting reports of  
14 150 millirem, so one rem at the front gate. Last time  
15 I had seen it before, it had gotten back down in the  
16 range of 60 millirem.

17 So had -- [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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1 BRIAN: Got it.

2 DAN: So TEPCO and the local power  
3 distribution outfit are working on restoring electric  
4 power to the site, and they said they were expecting  
5 to get electric power back to Units 2, 5, and 6 today,  
6 and Units 1, 3, and 4 tomorrow. But we're a little  
7 bit fuzzy on what they expect to work when they bring  
8 power back in.

9 BRIAN: Yes.

10 DAN: So I'm not sure where that's going,  
11 but they noted that -- the guys in the Embassy noted  
12 that it could at least provide a source of power for  
13 temporary equipment.

14 BRIAN: Yeah. (Inaudible) the  
15 containments are damaged on 2 and 3?

16 DAN: We got mixed up on that. We're  
17 still carrying on our board that there is possible  
18 damage to containments, other things we see. Every  
19 now and then we'll see something else (inaudible). So  
20 possibly some tears in those that are allowing some  
21 leakage, but not clear.

22 BRIAN: Yeah. I mean, you've got to ask,  
23 where is the heat going? Although certainly after  
24 this many days, the decay heat is going down, but it's  
25 not gone.

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1 DAN: Yes. Absolutely not.

2 BRIAN: (Inaudible) pouring the seawater  
3 in? I guess they -- they said they had the SRVs open,  
4 right?

5 DAN: Yeah. And if they're pumping  
6 seawater in, but maintaining level (inaudible), you  
7 know, they could be steaming off seawater and sending  
8 out (inaudible).

9 MALE PARTICIPANT: (Inaudible.)

10 DAN: Right.

11 BRIAN: So --

12 DAN: They have indicated to our folks  
13 over there that they believe there is water in the  
14 Unit 4 spent fuel pool. They showed our people images  
15 that they believe support that conclusion, and our  
16 guys are not necessarily seeing what they are seeing  
17 in the image, so that's still an open question, what  
18 those -- whether or not there is water in the Unit 4  
19 pool. But the [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 BRIAN: They said on the news last night  
23 that [REDACTED] --

24 DAN: Yes, we --

25 BRIAN: -- over the --

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1 DAN: Right. [REDACTED]

2 [REDACTED]  
3 BRIAN: And that doesn't give us any  
4 better (inaudible) idea about the full conditions?

5 DAN: You can't even see the -- I mean, in  
6 terms of getting a visual of the pool, there is so  
7 much debris over the top to even make out the outline  
8 of a pool, let alone any visual sense of the contents.  
9 [REDACTED]

10 [REDACTED]  
11 BRIAN: Now, how much is coming into RT at  
12 this point? And, you know, do we need to -- would you  
13 have any recommendations on staffing levels that we  
14 have been maintaining? Are we still about right or --

15 DAN: I'd probably let it go a little  
16 longer before I made any changes, but I think it's --  
17 I think it has been a relatively quiet shift for the  
18 PMT. The reactor safety team is busy trying to  
19 support the effort to get water pumping. The  
20 (inaudible) team has still got a fair amount of things  
21 going on.

22 BRIAN: Okay.

23 DAN: I think the -- our sense of where  
24 we're at is we're now primarily supporting Chuck and  
25 his team in anything that they need. And to the

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1 extent that they've got material that we can help  
2 identify, we'd do that through the liaison team,  
3 although we -- Chuck -- early in this shift Chuck  
4 forwarded us a two-page list of equipment requested  
5 from the U.S. Government. And we got the LT fired up  
6 to go start tracking that stuff down.

7 And when they started making contacts,  
8 they came back and said USAID had the lead on that and  
9 we needed to back off. So I think we just need to  
10 make sure that that coordination is still going  
11 forward. It looks like we are not in the lead for  
12 anything except getting the pump hooked up and getting  
13 water moving into these facilities. And anything we  
14 can do in terms of advising to support that.

15 MR. VIRGILIO: Yeah. But, Brian -- this  
16 is Marty. Good morning.

17 BRIAN: Good morning, Marty.

18 MR. VIRGILIO: The one thing about that is  
19 that we continue to hear from Chuck that the Chinese  
20 -- that the Japanese don't have much of an appetite  
21 for that approach, that they still believe that the  
22 water cannons and the helicopter dumping buckets of  
23 water on top of the units is the better strategy.

24 And, you know, we are assuming that they  
25 don't want to accept the dose that comes with hooking

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1 up this pumping equipment.

2 BRIAN: Oh.

3 MR. VIRGILIO: So although the pumps are  
4 onsite, and Bechtel, in combination with our reactor  
5 safety team, has sort of sketched out, you know, how  
6 one would hook up the pumps to get the head necessary  
7 to provide water to the spent fuel pools, we are not  
8 getting any takers from the Japanese side of this  
9 equation.

10

11

12

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14

15 BRIAN: Yeah.

16 MR. VIRGILIO: So that is going to be an  
17 interesting issue as that plays out today.

18 BRIAN: In terms of our dose objections,  
19 we -- are we using (inaudible) of assumptions in terms  
20 of which pools are likely releasing rad material at  
21 this point? Do we know?

22 MALE PARTICIPANT: No. I don't think we  
23 have made any adjustments, but I -- we are not -- we  
24 don't have any -- enough specific information to make  
25 an adjustment to projections we were making yesterday.

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1 BRIAN: Got it. Just kind (inaudible) add  
2 to the (inaudible) the wind shift, is that still in  
3 the forecast?

4 MALE PARTICIPANT: Right.

5 BRIAN: Did we ever get the -- I'm trying  
6 to think of what the best term is, the -- everything  
7 -- everything (inaudible) scenario back from -- I  
8 thought that was one we were going to ask NARAC to run  
9 once they had time.

10 MALE PARTICIPANT: Are you talking about  
11 the doses they saw all the way out in California?

12 BRIAN: Yes.

13 MALE PARTICIPANT: Yeah. That is going to  
14 be run by Research in Sandia, but they are not going  
15 to be able to do it until later today.

16 BRIAN: Oh, okay.

17 MALE PARTICIPANT: Sounds like they had to  
18 modify the code first in order to do that run.

19 MALE PARTICIPANT: Had to modify the MAC  
20 code. They -- NARAC did do their evaluation of --  
21 using our source term, and they -- they were  
22 calculating doses, particularly for children --  
23 thyroid doses of (inaudible) after -- that the one-  
24 year dose, assuming some very conservative assumptions  
25 about ingestion, and (inaudible) practices.

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1 So we had the group -- the PMT look at  
2 some of the actual data from deposits from Chernobyl,  
3 which we had from DITTRA.

4 BRIAN: Right.

5 MALE PARTICIPANT: Historical data. And  
6 convert those to doses using the same update  
7 techniques. And they have some calculations -- they  
8 hadn't shown them to be (inaudible), but they are  
9 showing millirem range doses, like one to 10 millirem.

10 MALE PARTICIPANT: (Inaudible.)

11 MALE PARTICIPANT: For the actual  
12 deposits. So we think there is some extreme  
13 conservatism in the DITTRA numbers, and we will know  
14 more once Research does their (inaudible).

15 BRIAN: Okay.

16 MALE PARTICIPANT: (Inaudible.)

17 MALE PARTICIPANT: I got that. He wants  
18 to work on the last version (inaudible), or is there  
19 fresher version?

20 (Multiple inaudible speakers.)

21 MALE PARTICIPANT: Are you taking it down?

22 MALE PARTICIPANT: Rebecca is going to  
23 take it down.

24 MALE PARTICIPANT: (Inaudible.)

25 MALE PARTICIPANT: Yes.

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1 (Multiple inaudible speakers.)

2 MALE PARTICIPANT: So that should be part  
3 of the data.

4 MALE PARTICIPANT: Do they have the  
5 capacity to do radiation readings and --

6 MALE PARTICIPANT: Yes. They will be able  
7 to have (inaudible).

8 MALE PARTICIPANT: Yeah. I'm not sure  
9 what (inaudible) we'll get in terms of (inaudible).

10 MALE PARTICIPANT: Location.

11 MALE PARTICIPANT: Or location. We'll  
12 see. We just don't know what --

13 MALE PARTICIPANT: Right.

14 MALE PARTICIPANT: -- at this point.

15 MALE PARTICIPANT: There is, in the  
16 (inaudible), there is (inaudible). And they do  
17 logistics, they do gathering material, they do all  
18 that type of thing. The office is set up specifically  
19 for that. So we reached out to that group. And we  
20 didn't find out about it until this evening. Our  
21 interpreter (inaudible). And we got contact that they  
22 have connected with John Moninger and --

23 MALE PARTICIPANT: Great.

24 MALE PARTICIPANT: -- (inaudible) been  
25 taking them to an Embassy-contracted interpreter.

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1 They took them to MOD, which is part of that function.

2 (Inaudible) Unit Special Forces Japan team with  
3 Colonel Towne (phonetic) and DITTRA's Major Lynn, took  
4 them and (inaudible) Lieutenant General Hiranocca  
5 (phonetic) (inaudible) meeting when they got back.

6 (Multiple inaudible speakers.)

7 MALE PARTICIPANT: We are trying to get up  
8 with (inaudible), and I guess that's why we couldn't  
9 reach (inaudible).

10 (Multiple inaudible speakers.)  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Jim, welcome back.

3 (Multiple inaudible speakers.)

4 MALE PARTICIPANT: You give them  
5 information and they try to reengineer the answer.

6 MALE PARTICIPANT: Right.

7 MALE PARTICIPANT: They don't do that  
8 anymore. So we're just trying to get (inaudible), you  
9 know, only what somebody puts up on the board.

10 MALE PARTICIPANT: Not only that, but  
11 you've got the Chairman who is constantly sending us  
12 e-mails during the day and expecting that we are  
13 watching this continuously. I mean, us. He is  
14 sending me e-mails (inaudible). You know, it's  
15 essentially --

16 MALE PARTICIPANT: Yeah, I was thinking of  
17 this on the way in. I was going to have one of these  
18 installed (inaudible). You kind of need it. You need  
19 somebody to keep looking (inaudible).

20 MALE PARTICIPANT: Yeah. Actually, the  
21 nice ones where you have --

22 (Multiple inaudible speakers.)

23 MALE PARTICIPANT: FYI, the Chinese --

24 (Multiple inaudible speakers.)

25 MALE PARTICIPANT: (Inaudible) try to

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1 follow this by e-mail is there is not a -- there is  
2 not a non-NRC name in the entire (inaudible). I'm  
3 just saying (inaudible).

4 MALE PARTICIPANT: Well, okay, here's how  
5 that all transpired. I was on the phone with  
6 (inaudible) asking him to come (inaudible). I was  
7 trying to get us access to WANO.

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: "In return," he said,  
10 "you know, I'd really like to get somebody from our  
11 side involved in this."

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: So we've been working  
14 that deal for the last 24 hours, 36 hours.

15 MALE PARTICIPANT: There is no preclusion  
16 of that, though, by --

17 MALE PARTICIPANT: I'm not asking  
18 permission. I am not asking permission.

19 MALE PARTICIPANT: (Inaudible) that you  
20 need.

21 MALE PARTICIPANT: That's absolutely  
22 right.

23 MALE PARTICIPANT: And we ought to giving  
24 assistance -- we ought to be giving the experts,  
25 not --

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1 MALE PARTICIPANT: On the other side of  
2 this is DOE is pushing to have a contingent of DOE  
3 people join Chuck. Chuck is saying, "I don't need  
4 that kind of help just yet." So that's an issue  
5 that --

6 MALE PARTICIPANT: Yes, because if he  
7 sends a contingent of DOE people, we are going to have  
8 to send a contingent of wranglers to --

9 MALE PARTICIPANT: And Chuck knows that  
10 very well. So this is an issue that either Bill or  
11 Mike could have to deal with today with former  
12 Commissioner Lyons (inaudible). Maybe he wants this  
13 settled down, but not today. We don't need that kind  
14 of --

15 MALE PARTICIPANT: Could we possibly  
16 terminate the event before we get into (inaudible)?

17 MALE PARTICIPANT: Right. The PMT wants  
18 to (inaudible) some insights to the press release from  
19 yesterday about the (inaudible).

20 Hey, Jim, for your benefit -- is this the  
21 first time you've been here?

22 JIM: I've been following it (inaudible).

23 MALE PARTICIPANT: From (inaudible).

24 JIM: Yes. (Inaudible.)

25 MALE PARTICIPANT: All right. We put out

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1 a press release yesterday. The theme of the press  
2 release is the U.S. has recommended protective action,  
3 get out -- protective action guidelines out 50 miles.

4 JIM: Yeah. What I read was the U.S. is  
5 recommending for U.S. citizens to --

6 MALE PARTICIPANT: Yes.

7 JIM: -- execute a 50-mile evacuation.

8 MALE PARTICIPANT: That's right. That's  
9 correct.

10  
11  
12  
13  
14 MALE PARTICIPANT: So with that press  
15 release, somebody made the decision that we attach  
16 some very highly technical data from Rascal (phonetic)  
17 runs. And if you're smart enough and you look closely  
18 at the data, it appears to be very inconsistent,  
19 because it shows -- we did two runs.

20 We did one run with -- assuming a single  
21 cooler was (inaudible) the atmosphere. And then, we  
22 did another run assuming two coolers and a spent fuel  
23 were released to the atmosphere, and it showed a  
24 single cooler as greater activity at the 10-mile  
25 point.

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1 MALE PARTICIPANT: So we didn't have -- we  
2 didn't know why that was until we had to go back in  
3 and dissect the assumptions. So the reasons for that  
4 inconsistency are the following.

5 Number one is is that for a single cooler  
6 it was assumed that it was at power and was an  
7 immediate release. With the two coolers and the spent  
8 fuel pool, the assumption was it was released two days  
9 after shutdown.

10 The second factor is the meteorology. For  
11 the single unit release, it was a lower windspeed, and  
12 there were rainy conditions. So your particulates are  
13 falling out sooner at the 10-mile point. For the  
14 multi-unit, there was no rain and greater wind speed.

15 So at the 10-mile point, you have this inconsistency,  
16 and then they catch up to each other at the 50-mile  
17 point.

18 MALE PARTICIPANT: (Inaudible.)

19 MALE PARTICIPANT: Does that make sense?

20 MALE PARTICIPANT: [REDACTED]

21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 MALE PARTICIPANT: Yeah. So it was

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1 (inaudible).

2 MALE PARTICIPANT: Well, the plots really  
3 only go to 50 miles.

4 MALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: Rascal is only good to  
6 50 miles.

7 MALE PARTICIPANT: But it shows --

8 MALE PARTICIPANT: You can't get  
9 (inaudible) at 50 miles.

10 MALE PARTICIPANT: (Inaudible) but we  
11 don't know what it is beyond that.

12 (Multiple inaudible speakers.)

13 MALE PARTICIPANT: Do we have any follow-  
14 on --

15 MALE PARTICIPANT: Well, NARAC is going to  
16 (inaudible), because they -- apparently, they got --

17 (Multiple inaudible speakers.)

18 MALE PARTICIPANT: We know about  
19 Chernobyl. And if we were to have (inaudible) where  
20 we are today, and U.S. citizens in the Ukraine, what  
21 would we have told them? We've got the benefit of  
22 knowing everything there is to know about Chernobyl.  
23 How far out would we (inaudible)? Would that be  
24 roughly consistent with the recommendation we would  
25 have made then?

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1 MALE PARTICIPANT: We haven't looked at  
2 that aspect of it. We are looking at -- we are  
3 actually looking at the deposition (inaudible)  
4 function.

5 MALE PARTICIPANT: So that's what you are  
6 largely going to get here, right?

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Maybe a little less,  
9 because with an operating reactor -- we have already  
10 gone beyond the operating reactor stage.  
11 Realistically, we could go in (inaudible) the spent  
12 fuel. Okay? So it's got a (inaudible) age in it.

13 BRIAN: Again, this is Brian.

14 MALE PARTICIPANT: Hey, Brian.

15 BRIAN: Good morning. Welcome back.

16 MALE PARTICIPANT: Good morning.

17 BRIAN: One of the other scenarios that  
18 was run but was not included with the press release  
19 was Unit 4 spent fuel (inaudible) with (inaudible)  
20 melting.

21 MALE PARTICIPANT: Yes.

22 BRIAN: And that also took you to the 50-  
23 mile tag.

24 MALE PARTICIPANT: In fact, that was the  
25 driver. That trumped these other ones.

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1 MALE PARTICIPANT: Yeah. Isn't there a  
2 problem, though, about having (inaudible) that says  
3 you are exceeding EPA tags outside (inaudible)?  
4 That's a problem.

5 MALE PARTICIPANT: How so?

6 MALE PARTICIPANT: I don't think we said  
7 that.

8 MALE PARTICIPANT: It sounds 50 is  
9 (inaudible), unless you put something in there that  
10 says when you now understand how the code works, what  
11 the underlying assumptions are with regard to  
12 meteorology and the amount of content that is actually  
13 likely to be released or has been or (inaudible).

14 Or you can do an incremental (inaudible)  
15 that says, "Well, we said (inaudible) the code, and  
16 your understanding of the code and how it works, and  
17 when you (inaudible) the actual conditions, this is a  
18 prudent step now as we start to preclude the need for  
19 further steps later," or something like that.

20 Otherwise, you've got to kind of -- you've  
21 got to finesse the (inaudible) that the runs show that  
22 you should be evacuating more than 50, you've got to  
23 explain why you're not.

24 MALE PARTICIPANT: Well, our protective  
25 action recommendation was --

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1 MALE PARTICIPANT: Whatever the answer is,  
2 you need to explain it.

3 MALE PARTICIPANT: We're not (inaudible)  
4 the run.

5 (Laughter.)

6 MALE PARTICIPANT: The basis for the  
7 protective action of 50 miles was the run we did that  
8 only looked at Unit 4 and the (inaudible).

9 MALE PARTICIPANT: (Inaudible.)

10 MALE PARTICIPANT: No, no.

11 MALE PARTICIPANT: I'll give you a  
12 perspective. I've got -- I'll give you a perspective  
13 from a knowledgeable person who has been outside of  
14 the inner circle following this based on what we have  
15 (inaudible) to ourselves. Not necessarily public, but  
16 public too, but mostly what we've said to ourselves.

17 And, you know, you can -- you can just  
18 point at a few things that are obvious. From day one  
19 or two, especially after the first explosion, this  
20 seemed to be transitioning to a spent fuel situation,  
21 and we had to worry about analytics that (inaudible)  
22 zirconium fire, which Research says will happen, and  
23 NEI says something different in their talking points.

24 MALE PARTICIPANT: But I think one of the  
25 unknown factors in that is, what do they do with their

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1 spent fuel when they offload it? If they're doing a  
2 one by four like we have told our guys to do, then the  
3 research studies would say that the Unit 4 pool was  
4 too old to --

5 MALE PARTICIPANT: (Inaudible) fire.

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: But if not, then --

8 MALE PARTICIPANT: I don't think we should  
9 presume that.

10 MALE PARTICIPANT: No, I'm not presuming.  
11 that.

12 MALE PARTICIPANT: You want to go back and  
13 find out what we told them on the (inaudible) and  
14 aircraft impact.

15 MALE PARTICIPANT: What we told --

16 MALE PARTICIPANT: Japan.

17 MALE PARTICIPANT: We told them about  
18 (inaudible).

19 MALE PARTICIPANT: You told them  
20 (inaudible)?

21 MALE PARTICIPANT: We told them  
22 (inaudible), but we don't know if they did it. I  
23 think that's probably who we told. Do they know if  
24 they did it?

25 MALE PARTICIPANT: (Inaudible.)

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1 MALE PARTICIPANT: That's a (inaudible)  
2 area of information. We may be (inaudible) anything  
3 that we're getting in a reliable way.

4 MALE PARTICIPANT: Did they do -- I mean,  
5 did they do anything (inaudible)?

6 MALE PARTICIPANT: We don't know.

7 MALE PARTICIPANT: (Inaudible.)

8 MALE PARTICIPANT: I know it was shared  
9 with them, but I don't know if they ever --

10 MALE PARTICIPANT: You're right. We never  
11 -- we shared it, but we never --

12 MALE PARTICIPANT: Never followed up  
13 and --

14 MALE PARTICIPANT: -- did anything that  
15 they would (inaudible). I would just comment that if  
16 you are going to provide the runs, and if one of the  
17 runs indicates that you are exceeding the (inaudible)  
18 out beyond 50, you have to put in --

19 MALE PARTICIPANT: (Inaudible) ready to  
20 explain it.

21 MALE PARTICIPANT: I think it's --

22 MALE PARTICIPANT: Maybe you have to --  
23 maybe you just go, you know, download the run and  
24 attach it to have some explanation that goes with it  
25 in the attachment that says -- but I think it always

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1 gets down to, what are your assumptions? Have you  
2 considered the assumptions that were used and how the  
3 code treats that assumption? The staff's evaluation  
4 or assessment is that it was -- what are we saying,  
5 appropriate and prudent? Is this a prudence measure  
6 or a (inaudible)?

7 MALE PARTICIPANT:

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 MALE PARTICIPANT: Oh.

15 MALE PARTICIPANT: Well, fortunately, what  
16 they (inaudible) prevailing wind (inaudible) right  
17 direction all the way through (inaudible).

18 (Multiple inaudible speakers.)

19 MALE PARTICIPANT: I think they are  
20 worried about the dose, and they should be.

21 MALE PARTICIPANT: Yeah, yeah.

22 MALE PARTICIPANT: Do the Russians have  
23 anything to offer on that? Ukraine?

24 MALE PARTICIPANT: They're going to have  
25 to do Chernobyl all over again when they do it?

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1 (Multiple inaudible speakers.)

2 MALE PARTICIPANT: Well, you're shielded  
3 until you drop the water, and then you --

4 (Laughter.)

5 MALE PARTICIPANT: How about (inaudible)?  
6  
7  
8  
9  
10  
11  
12

13 MALE PARTICIPANT: They are using  
14 helicopters the same way you fight forest fires.

15 MALE PARTICIPANT: Right.

16 MALE PARTICIPANT: (Inaudible) the same  
17 way you fight forest fires. The helicopters  
18 (inaudible) transition. You have a lot more  
19 (inaudible), even if you are just transitioning  
20 across. Use some of that stuff that we use in a  
21 forest fire to (inaudible) up to speed (inaudible)  
22 faster speed, same dose commitment, because you blow  
23 through the area quicker. You are getting less --

24 MALE PARTICIPANT: It spreads.

25 MALE PARTICIPANT: Yes, it (inaudible) and

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1 more air is (inaudible).

2 MALE PARTICIPANT: Well, maybe they don't  
3 want to (inaudible).

4 MALE PARTICIPANT: That's a (inaudible)  
5 system where they dump it (inaudible).

6 (Multiple inaudible speakers.)

7 MALE PARTICIPANT: They've got two  
8 pictures that they've been running all night. There's  
9 only two shots, and the Defense Minister said they  
10 would (inaudible).

11 MALE PARTICIPANT: (Inaudible.)



12  
13  
14  
15  
16  
17  
18 MALE PARTICIPANT: Yeah. (Inaudible.)

19  
20 MALE PARTICIPANT: -- but you're talking  
21 150 to 200 gallons --

22 MALE PARTICIPANT: Per minute, right.

23 MALE PARTICIPANT: We also had them put  
24 panels on the roof, so that you could get water in  
25 there. Remember that?

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1 (Multiple inaudible speakers.)

2 MALE PARTICIPANT: Yeah, we were debating  
3 earlier about what we should call this -- monitoring,  
4 activation, expanded activation.

5 MALE PARTICIPANT: (Inaudible.)

6 MALE PARTICIPANT: LE11 is what we are  
7 calling it.

8 (Multiple inaudible speakers.)

9 MALE PARTICIPANT: If it's possible --  
10 don't do it if it isn't -- what's the best way to get  
11 -- we're using YBOC (phonetic) or CRON (phonetic)? Do  
12 we have any (inaudible) with tracking --

13 MALE PARTICIPANT: Well, you do have an ET  
14 CRON. You can sort of go back to the very beginning  
15 and --

16 MALE PARTICIPANT: Can that get  
17 downloaded?

18 MALE PARTICIPANT: You can look at it from  
19 your desk. Or we can print one (inaudible) out for  
20 you.

21 MALE PARTICIPANT: Can you print it, so  
22 that's it more portable?

23 MALE PARTICIPANT: Absolutely.

24 MALE PARTICIPANT: That would be helpful.

25 MALE PARTICIPANT: But something that

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1 might be even more useful is we have all these status  
2 updates that we have done.

3 MALE PARTICIPANT: I've been reading them.

4 MALE PARTICIPANT: Okay.

5 MALE PARTICIPANT: I will give you this  
6 comment, too. When we first started -- well, not long  
7 after we started, Sarah was sending out an update, and  
8 that was -- I think she got like two or three of them  
9 off. And the next thing we transitioned to is  
10 (inaudible) we were filling out to see if  
11 (inaudible) --

12 MALE PARTICIPANT: Right.

13 MALE PARTICIPANT: -- which was completely  
14 uninformative. So I sent back a note to her, a note  
15 to Sarah, and said this -- you know, we've got to  
16 continue to do these other things, because you're  
17 (inaudible) trying to track this. You know, that DHS  
18 table makes sense for (inaudible) but it doesn't do an  
19 NRC internal audience any good.

20 (Inaudible) various places in (inaudible).  
21 One of the people I'm traveling with was (inaudible)  
22 John McCann, right, from Entergy, so he is tied into  
23 NEI. I mean, we're doing -- we're with NRC saying,  
24 "What's NEI?" (Inaudible) in terms of useful  
25 information.

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1 Now, I'm not saying it was (inaudible),  
2 just more of it. He is following, you know, his  
3 (inaudible). We've got out Blackberrys out trying to  
4 figure out what the hell was going on.

5 MALE PARTICIPANT: Yeah. I think that was  
6 one of our early --

7 MALE PARTICIPANT: (Inaudible) back,  
8 though, to this other update, which --

9 MALE PARTICIPANT: That was a DHS, you  
10 know, template that we were trying to propose  
11 information into.

12 MALE PARTICIPANT: Yeah.

13 MALE PARTICIPANT: It might be useful for  
14 them, and --

15 MALE PARTICIPANT: My point is it doesn't  
16 serve an internal NRC audience.

17 MALE PARTICIPANT: Yeah.

18 MALE PARTICIPANT: At all.

19 MALE PARTICIPANT: We settled into that  
20 status update, and I think we're going to keep it.

21 MALE PARTICIPANT: That's helpful.  
22 Probably should scrub it, though, to make sure there's  
23 no conflicting information in it, because some of the  
24 stories get -- a quick read was (inaudible).

25 MALE PARTICIPANT: Well, we have that

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1 version, which is kind of a lengthier status, and then  
2 we have a light version as well, so --

3 MALE PARTICIPANT: Yeah.

4 MALE PARTICIPANT: -- the Chairman or --

5 MALE PARTICIPANT: (Inaudible) sitting on  
6 a wall (inaudible) that said, "Okay. What happened to  
7 the spent fuel pool?" That doesn't come out for some  
8 (inaudible).

9 MALE PARTICIPANT: But it goes back to  
10 our --

11 (Multiple inaudible speakers.)

12 MALE PARTICIPANT: How we started out, we  
13 woke him up, we woke (inaudible) between Admiral  
14 Donnell (phonetic), the Ambassador in Tokyo, and us,  
15 over the protective action for U.S. citizens.

16 MALE PARTICIPANT: Oh, Naval Reactors.

17 MALE PARTICIPANT: Yeah. Naval Reactors  
18 sent a note to the Embassy and said you may want to  
19 (inaudible).

20 MALE PARTICIPANT: Yeah.

21 MALE PARTICIPANT: Yeah. And the  
22 Ambassador (inaudible).

23 MALE PARTICIPANT: There's a number of  
24 things that -- you know, on any given day, there is a  
25 list of things he is wanting from us. So, you know,

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1 if he calls, which I expect he will, we want to just  
2 go down that list, give him the status. That changes  
3 from day to day, Jim.

4 But, yeah, there's a threshold. I mean,  
5 if all of a sudden you sent the White House or any of  
6 its counterparts are engaged on a particular issue,  
7 (inaudible) call the Chairman and (inaudible).

8 (Multiple inaudible speakers.)  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: The Chairman will be  
3 going down to the White House for an 0800 (inaudible)  
4 call, and we've got (inaudible).

5 (Multiple inaudible speakers.)

6 MALE PARTICIPANT: Everybody is staying  
7 nice and calm.

8 (Laughter.)

9 (Multiple inaudible speakers.)

10 MALE PARTICIPANT: Well, actually that's  
11 -- compared to -- did you watch the hearing yesterday?

12 MALE PARTICIPANT: (Inaudible.)  
13  
14  
15

16 (Laughter.)

17 (Multiple inaudible speakers.)

18 MALE PARTICIPANT: Hey, Marty?

19 MR. VIRGILIO: Yes.

20 MALE PARTICIPANT: I just wanted to let  
21 you guys know the AMS data is ready. We are going to  
22 start calling it off.

23 MR. VIRGILIO: Oh, great.

24 (Multiple inaudible speakers.)  
25

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Good morning, Chairman.

3 CHAIRMAN JACZKO: Good morning.

4 MALE PARTICIPANT: How are you?

5 CHAIRMAN JACZKO: Fine. How are you, sir?

6 MALE PARTICIPANT: Good.

7 CHAIRMAN JACZKO: Could you give me an  
8 update how things stand?

9 MALE PARTICIPANT: Yes. Not significant  
10 changes from yesterday. The focus is still primarily  
11 on the Units 3 and 4 spent fuel pools. Their efforts  
12 to drop water from helicopters have focused on Unit 3  
13 spent fuel pool.

14 We got some recent [REDACTED] [REDACTED] [REDACTED]

15 [REDACTED]  
16 [REDACTED] So there  
17 is not a significant change in the (inaudible) plant  
18 status that we reported before.

19 I guess one other thing I would add is we  
20 have indications that the temperatures have dropped in  
21 the Unit 5 and 6 spent fuel pool. We have indications  
22 that they have established cooling in those two.

23 MALE PARTICIPANT: Chairman, we now  
24 focused more on pool number 3 than pool number 4.

25 DAN: Yes. A couple of the data points

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1 that I think you are waiting for we don't quite have  
2 yet. There is the aerial monitoring -- aerial  
3 measurement system from DOE. They did do the flight.

4 We got that initial data package within the last  
5 hour, but I think there was -- I think that  
6 (inaudible) to get that data.

7 The other piece looking at the projections  
8 to California, Research is working with Sandia.  
9 Sandia needs to modify the code, because the code  
10 currently goes out to 1,000 miles, so we expect -- we  
11 are hoping later today to get that worked out and get  
12 them to start getting some runs to support that.

13 MIKE: Any ETA on that, Dan?

14 DAN: Not a specific ETA at this point  
15 (inaudible). But our focus right now has changed  
16 because --


17 MIKE: Hours? Days?

18 DAN: We heard earlier, Mike, and so that  
19 was about maybe 12 hours ago.

20 MIKE: So later today we should expect to  
21 see something. Of course, it will have to be  
22 validated.

23 MALE PARTICIPANT: Right.

24 CHAIRMAN JACZKO: Okay.

25 MALE PARTICIPANT: 

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MALE PARTICIPANT: We saw some video footage that just was broadcast on Japanese TV that about two hours ago they allegedly were using the water cannons, but we didn't see actual shooting of the water. We just heard about it.

CHAIRMAN JACZKO: Okay.

MALE PARTICIPANT: And then, there was a report that they backed away because of the high rad field. So that's not encouraging.

CHAIRMAN JACZKO: Okay.

MALE PARTICIPANT: That's the other thing

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1 that has changed somewhat. The dose level at the  
2 fence was -- dose rate was about 60 mr previously, and  
3 now it's up to between 150 mr and one rem at the  
4 fence, so dose rates seem to be going up somewhat.

5 CHAIRMAN JACZKO: Okay. Anything on  
6 Units 1, 2, and 3?

7 MALE PARTICIPANT: Well, 3, the focus for  
8 -- appears to be on the pool. [REDACTED]

9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED] The status of core  
13 in containment for 1, 2, and 3 remains unchanged.

14 CHAIRMAN JACZKO: Okay. Is there -- are  
15 we -- are they still doing seawater injection, or are  
16 they --

17 MALE PARTICIPANT: Yes.

18 MALE PARTICIPANT: To the best of our  
19 knowledge.

20 MALE PARTICIPANT: To the best of our  
21 knowledge. We have no -- we have no report of any  
22 change from -- from previous reports that they are  
23 doing seawater injection and have stable cooling.

24 MALE PARTICIPANT: Now, they are trying to  
25 bring AC power back to the units sequentially, but I

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1 don't know -- you know, they could have electrical  
2 power outside the fence, but, I mean, I just don't  
3 know how they're going to be able to reconnect to that  
4 equipment. They would have to do an awful lot of  
5 work, given the tsunami effects.

6 CHAIRMAN JACZKO: So right now our concern  
7 -- our primary concern is the three -- the two pools.

8 MALE PARTICIPANT: Yes.

9 CHAIRMAN JACZKO: Do we know about any  
10 releases? Oh, I guess we're waiting on the air  
11 sampling.

12 MALE PARTICIPANT: Well, they're having  
13 continual releases, because they are continuing to  
14 test.

15 CHAIRMAN JACZKO: Okay.

16 MALE PARTICIPANT: Right.

17 CHAIRMAN JACZKO: But from the pools, at  
18 this point, we don't know?

19 MALE PARTICIPANT: Well, the indication  
20 from our team in Japan was that they expected that  
21 there was high contamination caused by the explosions  
22 detected in the pool. And the -- remember, the  
23 information about bulldozing the debris field  
24 substantially reduced the dose rate.

25 So their thought was that if you don't

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1 have fuel particles out there, at least you have  
2 substantial contamination of the surrounding ground.

3 CHAIRMAN JACZKO: Yeah.

4 MALE PARTICIPANT: Okay.

5 CHAIRMAN JACZKO: What -- so going  
6 forward, what are -- are they asking us what we would  
7 recommend with the fuel pools?

8 MALE PARTICIPANT: Well, we have given  
9 them the recommendation, and we have actually done  
10 some design work about how you would lash up those  
11 pumps.

12 CHAIRMAN JACZKO: Yeah.

13 MALE PARTICIPANT: So will we provide a  
14 recommendation (inaudible) the pools and what the  
15 (inaudible) water off in (inaudible) the one that are  
16 still --

17 MALE PARTICIPANT: Yes.

18 MALE PARTICIPANT: -- in the (inaudible)  
19 geometry (inaudible) and sand on --

20 MALE PARTICIPANT: They haven't really  
21 taken the sand option. They are still focused on  
22 water, providing water only, is what we have been  
23 hearing.

24 MALE PARTICIPANT: Because they believe  
25 that they can reflood Unit 4 and Unit 3's pool, but

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1 whether they can or not remains to be seen.

2 CHAIRMAN JACZKO: Do they -- I know there  
3 was a lot of debate last night about whether 4 was dry  
4 or not dry. Is that still an issue of --

5 MALE PARTICIPANT: Yes. It still under  
6 debate. Chuck was shown some pictures by the  
7 Japanese, but he said, you know, my -- his viewing of  
8 those pictures is inconclusive. Where they would like  
9 to say, "Well, you see that" -- you know, some shimmer  
10 that they would indicate would be from water in a  
11 pool, Chuck couldn't see it in the pictures he  
12 reviewed.

13 CHAIRMAN JACZKO: Is it a material fact at  
14 this point, or is it clear that there is a -- do we  
15 know anything about the inventory, or can surmise  
16 anything about the inventory?

17 MALE PARTICIPANT: Inventory of water?

18 CHAIRMAN JACZKO: Yes.

19 MALE PARTICIPANT: I would say that we do  
20 not have any conclusive information that would prove  
21 that there is no water, but the heat signatures off of  
22 both of those pools is substantial.

23 CHAIRMAN JACZKO: In a way that would be  
24 consistent --

25 MALE PARTICIPANT: In a way that would

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1 indicate a substantial loss of water, if not complete.

2 CHAIRMAN JACZKO: Okay.

3 MALE PARTICIPANT: And the argument that  
4 there would be water in Unit 3 is we still see vapor  
5 coming off of the Unit 3 building. It's not clear  
6 whether that is smoke from a fire or vapor from  
7 steaming. There is very little vapor that we see [REDACTED]

8 [REDACTED]

9 CHAIRMAN JACZKO: Okay. Okay. Anything  
10 else?

11 MALE PARTICIPANT: DITTRA delivered five  
12 pumps to the site, but they are apparently not using  
13 those pumps.

14 MALE PARTICIPANT: (Inaudible) are the  
15 wrong pumps. If you look at the way we -- our  
16 estimate of how you would pipe this up --

17 MALE PARTICIPANT: Right.

18 MALE PARTICIPANT: -- we are -- our  
19 understanding is is you can't -- you can't use their  
20 pumps.

21 MALE PARTICIPANT: The pipes don't meet  
22 with the --

23 MALE PARTICIPANT: It has to be  
24 (inaudible).

25 MALE PARTICIPANT: Yeah.

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1 MALE PARTICIPANT: That's what our staff  
2 (inaudible).

3 MALE PARTICIPANT: I think that request  
4 originally happened before we had the more detailed  
5 engineering review.

6 CHAIRMAN JACZKO: Okay.

7 MALE PARTICIPANT: So, but that's all part  
8 of the evolution of our --

9 CHAIRMAN JACZKO: Yeah. Okay. How is the  
10 team in Tokyo?

11 MALE PARTICIPANT: They seem to be doing  
12 okay.

13 CHAIRMAN JACZKO: Okay. Good.

14 MALE PARTICIPANT: Chuck did mention that  
15 the -- relative to the voluntary departure, that they  
16 are getting a lot of takers, both the dependents who  
17 are eligible for the free flight out and also they  
18 have got about half the space on the charter flight  
19 available to other U.S. citizens who can pay a  
20 commercial rate to get on those flights. And it  
21 sounds like there is -- they've got a crowd standing  
22 outside the Embassy with suitcases. They are not  
23 getting any shortage of takers.

24 CHAIRMAN JACZKO: Okay. Is the situation  
25 reasonably calm?

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1 MALE PARTICIPANT: That was my sense.  
2 They didn't indicate any sense of panic or unrest, but  
3 substantial interest.

4 MALE PARTICIPANT: Their (inaudible) was  
5 very crowded. Are we still (inaudible) on the  
6 protective active recommendation of evacuation out to  
7 50 miles?

8 MALE PARTICIPANT: We haven't (inaudible).

9 MALE PARTICIPANT: Okay.

10 CHAIRMAN JACZKO: And you are still  
11 confident with that number?

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: Yeah.

14 CHAIRMAN JACZKO: Okay, everybody. And  
15 just, again, the 50 miles is based on what -- what  
16 radiological scenario?

17 MALE PARTICIPANT: The 50 miles, when we  
18 were talking about it yesterday morning at this time,  
19 was based on the radiological scenario involving one  
20 spent fuel pool.

21 CHAIRMAN JACZKO: Okay.

22 MALE PARTICIPANT: But we have comparable  
23 runs with loss of a core from a reactor, right?

24 MALE PARTICIPANT: Yeah.

25 MALE PARTICIPANT: So both of those

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1 simulations that we attached in yesterday's press  
2 release suggest evacuation out to 50 miles of the  
3 approved protective action.

4 CHAIRMAN JACZKO: Okay. So it's basically  
5 kind of both of the possibilities that could go wrong?

6 MALE PARTICIPANT: Right. Now, it's not  
7 the additive effect of there are multiple core  
8 releases and multiple spent fuel pools.

9 CHAIRMAN JACZKO: Right.

10 MALE PARTICIPANT: I mean, we have those  
11 results.

12 CHAIRMAN JACZKO: (Inaudible) fairly easy  
13 to derive.

14 MALE PARTICIPANT: Right.

15 CHAIRMAN JACZKO: Add the plots together.

16 MALE PARTICIPANT: Right.

17 CHAIRMAN JACZKO: And it doesn't -- you  
18 know, again, I mean, if there is no, you know, thermal  
19 dynamic effects of the multiple releases simultaneous,  
20 which would be highly unlikely --

21 MALE PARTICIPANT: Right.

22 CHAIRMAN JACZKO: -- I mean, effectively,  
23 you know, it -- that doesn't significantly change that  
24 recommendation at this point. And given that there is  
25 a voluntary departure at this point, it's, to some

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1 extent, covered.

2 And there was one -- I just got an e-mail  
3 that there was a need to correct (inaudible) need to  
4 correct the sit rep.

5 MALE PARTICIPANT: Yeah, we have already  
6 done it.

7 CHAIRMAN JACZKO: Okay, good.

8 MALE PARTICIPANT: Yeah.

9 CHAIRMAN JACZKO: Appreciate it.

10 MALE PARTICIPANT: And we will reissue it  
11 with a new time on it.

12 CHAIRMAN JACZKO: Okay, good. Okay.  
13 Thanks, everybody. And I know you e-mailed me  
14 information for (inaudible). Is there a way --

15 MALE PARTICIPANT: There is also a copy at  
16 the gate.

17 CHAIRMAN JACZKO: There will be a hard  
18 copy at the gate?

19 MALE PARTICIPANT: We got a courier that  
20 is meeting Josh at the --

21 MALE PARTICIPANT: Southwest gate.

22 MALE PARTICIPANT: -- southwest gate at  
23 7:45 to bring you a brand-new book.

24 CHAIRMAN JACZKO: Great. Thanks,  
25 everybody. I appreciate it.

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1 BILL: Chairman, this is Bill. Can I call  
2 you on your cell phone, or are you at home, or --

3 CHAIRMAN JACZKO: Yeah, you can call me at  
4 home. I'll get off this line, and then you -- if you  
5 want to call me at home.

6 BILL: All right. Thanks.

7 CHAIRMAN JACZKO: Thanks.

8 MALE PARTICIPANT: Anything else,  
9 Chairman?

10 MALE PARTICIPANT: I think he's off.

11 MALE PARTICIPANT: Thanks, guys.  
12 Appreciate it.

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1 (CONFERENCE CALL INITIATED)

2 MR. DORMAN: Good morning, everyone. This  
3 is Dan Dorman. The status of the facility at  
4 Fukushima Daiichi remains pretty much as it was last  
5 night. The focus of efforts is primarily on the spent  
6 fuel pools, on Units 3 and 4, with the highest  
7 priority effort being placed on the Unit 3 spent fuel  
8 pool, which appears that may be having a zirconium  
9 water reaction, and a possible fire in the spent fuel  
10 pool.

11 The Japanese Self-Defense Force  
12 helicopters have been attempting to drop water on that  
13 pool several times over the last 12 hours. That does  
14 not appear to have any significant effect on the  
15 conditions in the Unit 3 spent fuel pool.

16 The Units 1, 2, and 3 reactor and  
17 containment status remains the same. There is  
18 seawater injection, to our understanding, to those  
19 reactors. They are maintaining a level at about half  
20 of the height of the fuel, and there is mixed reports  
21 on Units 2 and 3 containments on level of confidence  
22 in a primary containment for those two units.

23 Units 5 and 6 spent fuel pools appear to  
24 have cooling established based on the decreasing  
25 temperatures in the 5 and 6 spent fuel pools. Within

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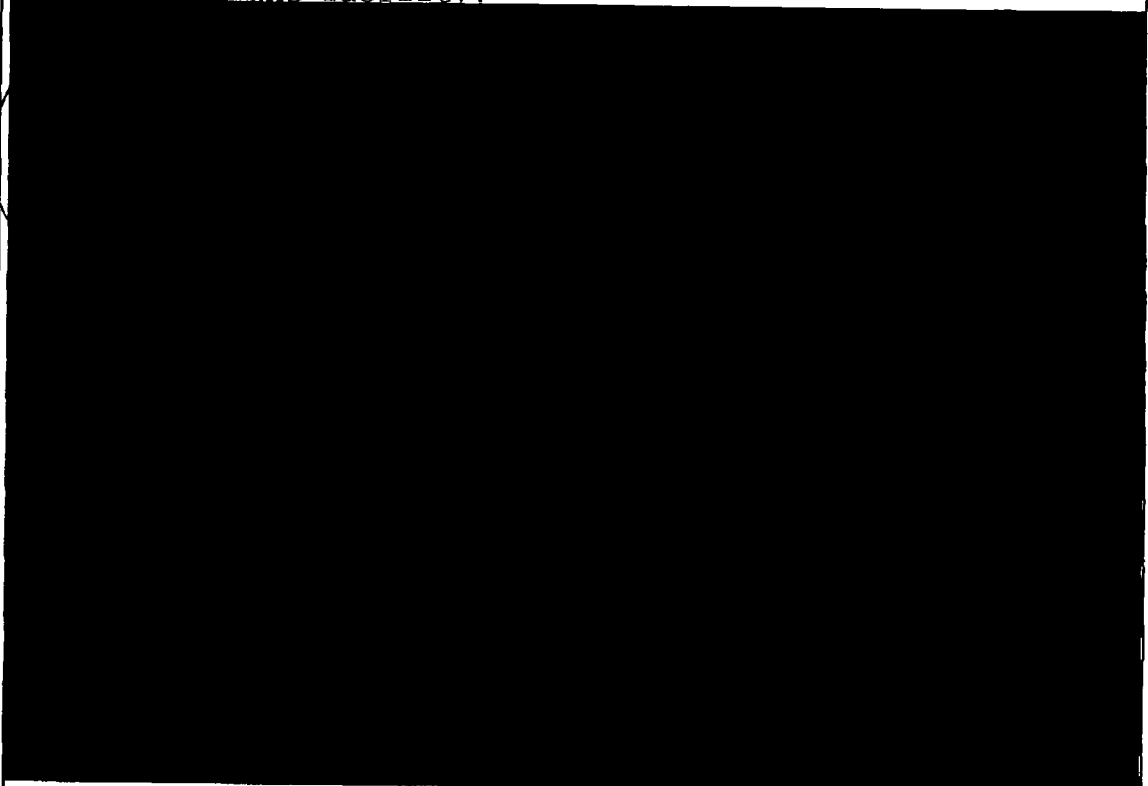
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1 the last two hours, we are seeing media reports of  
2 attempts to establish the water cannon sprays for the  
3 Unit 3 spent fuel pool, but we have no information at  
4 this point of the potential effectiveness of those  
5 efforts.

6 The Japanese are focused on restoring  
7 electric power to the site. They have indicated to  
8 our people in Tokyo that they expect to restore  
9 electrical power to Units 2, 5, and 6 today, and Units  
10 1, 3, and 4 tomorrow. But we have no information on  
11 what they expect to connect that to and what  
12 (inaudible) expect them to do and expect in terms of  
13 operating equipment with that power. But they are  
14 apparently close to restoring some measure of offsite  
15 power to the facility.



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1 About nine hours ago, the DITTRA pumps  
2 were delivered to the site. It's not clear that --  
3 how those will be used at this point. There is  
4 questions about the discharge head of those pumps and  
5 the ability to use those to spray up over the damaged  
6 reactor buildings.

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14 I guess I'll turn to Rob Lewis to cover a  
15 couple of items from the protective measures  
16 perspective.

17 MR. LEWIS: Okay. Good morning. I will  
18 cover four things that occupied most of the protective  
19 measures team time last night. First, there was a  
20 flight by NARAC last night, and the flight landed  
21 roughly right after midnight. And the data became  
22 just available to us about an hour ago, so we're in  
23 the process of obtaining and analyzing the data from  
24 the (inaudible).

25 We also are working -- there was a request

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1 coming from last night -- before last evening's shift  
2 to develop projections for doses in California. And  
3 that is -- has been in process. We will need to -- in  
4 order to do that, we will need to engage with -- we  
5 already have engaged with the Office of Research. We  
6 are looking to engage further with Sandia to make some  
7 modifications to the (inaudible) to effectuate those  
8 dose estimates in California.

9 In conjunction with that, there was a  
10 DITTRA and NARAC dose estimate that was done for  
11 California that we obtained as part of the DOE  
12 briefing package. And those were estimating what we  
13 believe to be very high doses to children, and a  
14 thyroid (inaudible) dosage.

15 We think that (inaudible) extremely  
16 conservative modeling related to those doses and  
17 assumptions. It's a thyroid dose that involves  
18 deposition of material and (inaudible) integrated the  
19 dose over a year or two, for example, drinking milk  
20 from the same cow that's grazing on the same  
21 contaminated field the entire time, things like that.

22 But once we get the (inaudible), we will have  
23 something to compare (inaudible).

24 Also, when we saw those dose estimates, we  
25 looked in the historical record for any kind of

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1 information related to Chernobyl actual deposits that  
2 were measured. We did find some and (inaudible) dose  
3 activity per area of deposits that were estimated -- I  
4 think they were provided from DITTRA.

5 We did the same dose calculations with  
6 those concentrations, and the doses were approximately  
7 1,000 times lower. So we were in the one to 10  
8 millirem range versus full rem range, which was --  
9 full rem thyroid dose range, which was being  
10 (inaudible) by DOE and DOE (inaudible).

11 We also have been working to clarify the  
12 assumptions that support the two Rascal runs that are  
13 attached to the (inaudible). We looked at the  
14 different assumptions behind those two runs, and we  
15 think we have developed a good story of why those runs  
16 may look a little different to some of our  
17 (inaudible).

18 And, finally, we got some additional site  
19 and dose information. Most notably on that is the  
20 doses at the main gate area have increased from what  
21 we have previously heard. They are in the range of  
22 150 millirem per hour to one rem per hour at the site  
23 boundary.

24 And there is a notable point -- 300 feet  
25 above Unit 3 in the air there is a dose reading of

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1 375 R per hour.

2 So that completes the PMT summary.

3 MIKE: Rob, this is (inaudible). I have a  
4 question for you. This request for doses in  
5 California projected with, I guess, worst-case  
6 assumptions, is that correct? (Inaudible.)

7 MR. LEWIS: I believe the doses that we  
8 saw from DITTRA represented a source term of 100  
9 percent of the (inaudible).

10 MIKE: Okay. And where -- is this  
11 information being considered for releasing publicly,  
12 like we do with the press release?

13 MR. LEWIS: Which information are you  
14 speaking about?

15 MIKE: I'm talking about these projected  
16 dose models, the models that you -- the ones that you  
17 are doing and coordinating with other agencies, is  
18 there some thought about releasing that publicly?

19 MR. LEWIS: We have not had that  
20 discussion at this time.

21 MIKE: And don't take that as a suggestion  
22 to (inaudible). I'm just curious as to how we came  
23 upon doing that with our press release, and then, are  
24 we advocating that for any future press releases here  
25 for doses in the U.S.?

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1 MR. DORMAN: Mike, this is Dan. No. No,  
2 we're not planning any press release with this  
3 information. This was a projection that we were  
4 requested to run. Separate from our being requested  
5 to run that, we got this DOE briefing package that had  
6 this other DITTRA run in it, and we're not -- I don't  
7 know what prompted theirs or all of the assumptions  
8 that went into theirs, but it obviously caught our  
9 attention and we are looking to get what we think  
10 would be more realistic projections.

11 Other questions?

12 MS. HOWE: Dan, just one comment, and Rob.  
13 This is Linda Howe in Region IV. Rob, I can talk  
14 with you offline about some background information for  
15 California. The DITTRA and DOE runs for California  
16 may have been prompted by queries from the state,  
17 because the state has been conducting interagency  
18 conference calls, and DOE, EPA, HHS, has been part of  
19 those calls. Our regional state liaison officer is  
20 also monitoring that, but there is some background  
21 that is politically sensitive that I can share with  
22 you offline.

23 MR. DORMAN: Okay. Thanks, Linda. That's  
24 good.

25 MR. CASTLEMAN: Rob, this is Pat

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1 Castleman. Could we get -- could the Commission  
2 offices get copies of the dose projections and plume  
3 models that supported the press release and the  
4 recommendation that American citizens evacuate out to  
5 50 miles?

6 MR. LEWIS: Well, you have it on the press  
7 release, attached to the press release. Do you want  
8 something more than that?

9 MS. CASTLEMAN: Yeah, more than that.  
10 That's kind of sketchy information, so we would like  
11 to get a little bit more information, so we can  
12 explain to, you know, the Commissioner, so that  
13 (inaudible) currently informed.

14 MR. LEWIS: So a plot of the plume that  
15 goes with that?

16 MS. CASTLEMAN: Yeah, please.

17 MR. LEWIS: Okay. We'll get that out to  
18 the Commission offices.

19 MS. CASTLEMAN: Thank you.

20 MR. DORMAN: Okay.

21 MR. HICKSMAN: This is Tom Hicksman.  
22 Could you please repeat the DITTRA projection and our  
23 calculation for the thyroid dose rates in California,  
24 please?

25 MR. LEWIS: Well, our calculations are not

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1 done.

2 MR. HICKSMAN: But you thought that they  
3 might be 1,000 times less, or that they are --

4 MR. LEWIS: Yeah. The DITTRA result was  
5 four rem to the thyroid of a one year-old child based  
6 on one year integration of uptake. They --

7 MR. HICKSMAN: I think it --

8 MR. LEWIS: What we did during the past  
9 shift was looked at the actual deposition rates in  
10 California from the Chernobyl accident in 1986 and  
11 extrapolated that out and came up with a comparable  
12 dose rate on the order of one to 10 millirem. So that  
13 kind of reinforced our disbelief of the DITTRA number  
14 when we saw it. But then, separately, Research is  
15 working with Sandia to do a separate run.

16 MALE PARTICIPANT: Just for clarity, we  
17 want to attribute the calculation for NARAC. Okay.  
18 It's not (inaudible), it's NARAC -- the calculation.

19 MR. DORMAN: Any other questions?

20 MALE PARTICIPANT: And also, to clarify,  
21 we don't have a run of it. We just have the output --

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: -- that suggests the  
24 thyroid doses.

25 MR. DORMAN: That's all the questions?

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1 (No response.)

2 That concludes the briefing.

3 MALE PARTICIPANT: Wait. Hang on. I have  
4 another question.

5 MR. DORMAN: I'm sorry.

6 MALE PARTICIPANT: This is (inaudible) in  
7 Commissioner Ostendorf's office. I had one question.

8 MR. DORMAN: All right.

9 MALE PARTICIPANT: Okay. Regarding the  
10 sit reps, we're getting them in PDF form, and the  
11 thing is if, for example, I'm on the move -- and since  
12 other people might be having the same problem -- I  
13 can't read the darn thing on my Blackberry. Could we  
14 get that in Word format?

15 MALE PARTICIPANT: We'll take a look at  
16 that. We're looking at options on how to best get  
17 this out in a useful form.

18 MALE PARTICIPANT: Thank you.

19 MALE PARTICIPANT: You may need to use the  
20 View Text feature on the Blackberry to read the text  
21 in the PDF.

22 MALE PARTICIPANT: Go to the left button  
23 away from the track ball, and go to View Text and it  
24 comes right up. On View Text you can read it.

25 MALE PARTICIPANT: Okay. Thanks. I'll

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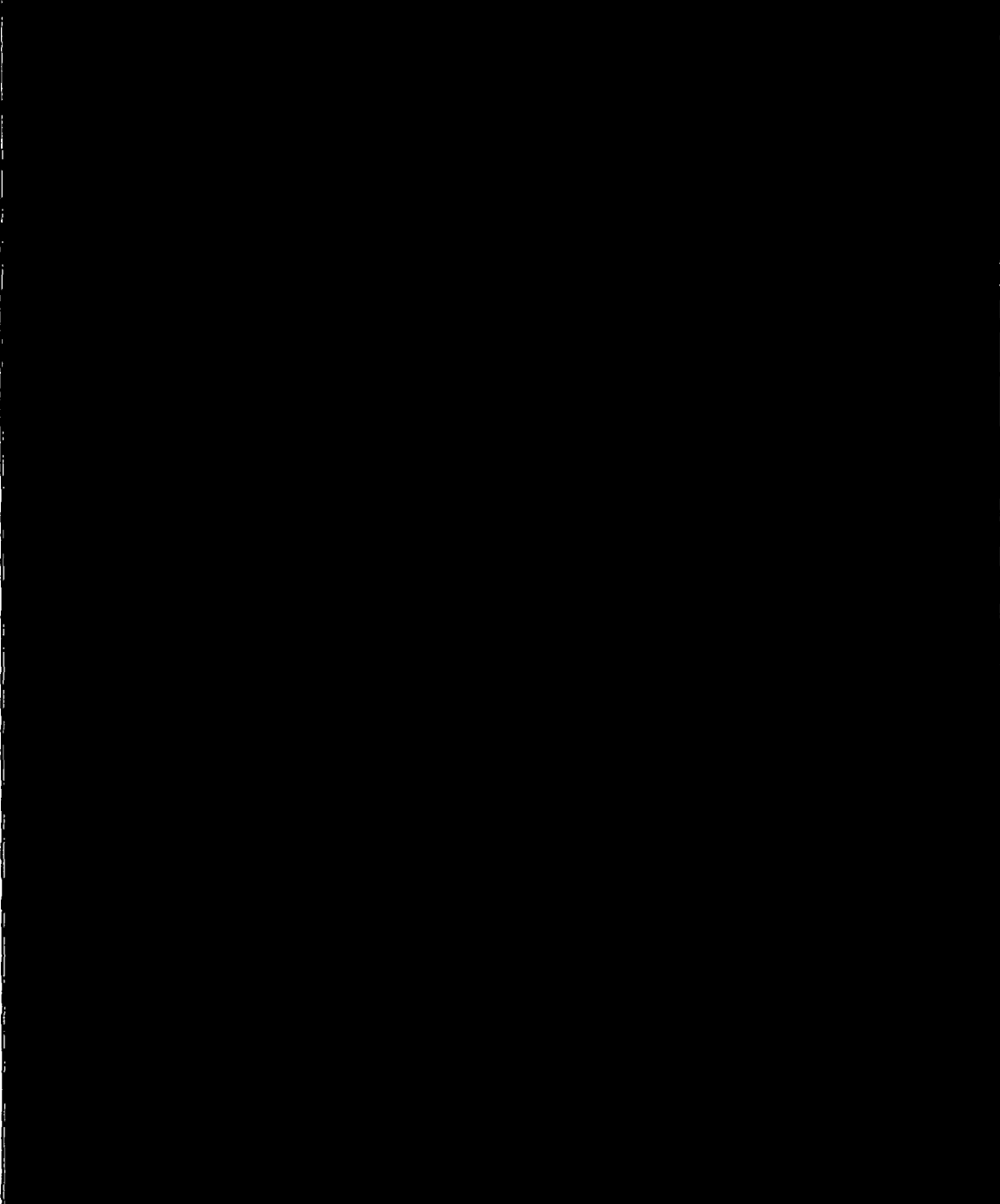
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1 give that a try.

2 MALE PARTICIPANT: Good morning. This is  
3 (inaudible) in Commissioner Ostendorf's office. I do  
4 have a question I got from the Commissioner. And I  
5 just joined the bridge, so I apologize if this  
6 question has already been asked, and just let me know  
7 if it is and I'll check with Mike Sanovich.



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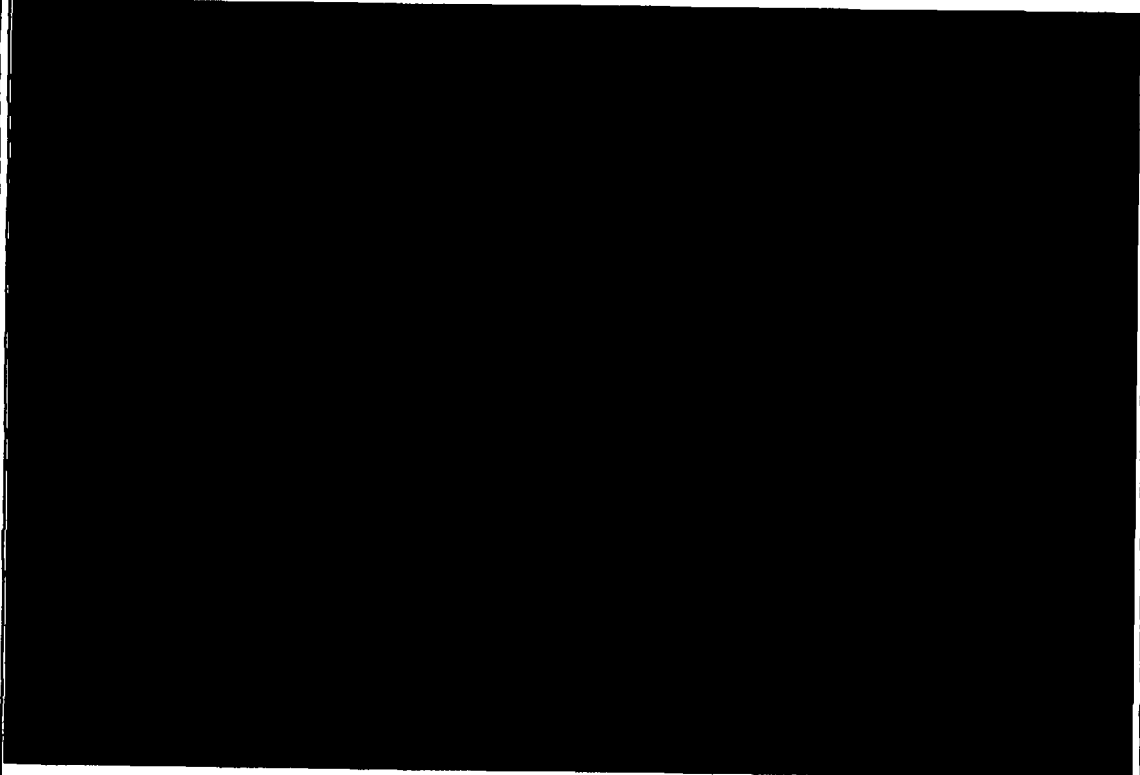
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1 MALE PARTICIPANT: Okay, thanks. That's  
2 very helpful, Dan. I appreciate it. Is there an  
3 agency position or response to that, or is that how  
4 you described it, that we don't see evidence of how  
5 there could be water in the Unit 4 spent fuel pool.  
6 However, we acknowledge that the Japanese have --

7 MR. DORMAN: I think that's the position  
8 that we've taken is that our best information does not  
9 indicate water in the pool. We would be very happy to  
10 be proven wrong.



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21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: There is reactions I  
23 guess to what is being -- you know, what was in the  
24 news last night and what's in the papers this morning.

25 MALE PARTICIPANT: Yeah.

5

1 MALE PARTICIPANT: So --

2 MALE PARTICIPANT: The bottom line is we  
3 are very focused on spent fuel pools for Units 4 and  
4 3.

5 MALE PARTICIPANT: Okay.

6 MR. BORCHARDT: Yeah, this is Bill  
7 Borchardt. You know, I would hope that we could put  
8 this Unit 4 question a little bit in a box, because  
9 it's a bit of a red herring in my view. We know there  
10 is degraded radiation conditions, and we know there is  
11 significant issues with spent fuel pools. All those  
12 factors weighed into the 50-mile recommendation.

13 And the problem right now is the Unit 3  
14 spent fuel pool is sitting -- may be more than Unit 4.

15 And if it turns out we were wrong, that would be  
16 great news. But based on the information we had at  
17 that time, and, in fact, that we still have, we think  
18 Unit 4 was dry.

19 MALE PARTICIPANT: Thank you. Thank you,  
20 Bill. That's helpful. I'll go over that with the  
21 Commissioner when he gets in. Thank you.

22 MR. DORMAN: Any other questions?

23 (No response.)

24 All right. Thank you.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: The discussion that we  
3 were having is that the Rascal runs that were attached  
4 to yesterday's press release were different than the  
5 Rascal runs that were done overnight last night,  
6 because the ones that are attached actually show doses  
7 exceeding the five R at 50 miles.

8 But, you know, I think it goes to the  
9 point of you can do many different simulations, and  
10 all of those simulations suggest you have a problem  
11 out to 50 miles.

12 MALE PARTICIPANT: Absolutely not a  
13 problem.

14 MALE PARTICIPANT: Right.

15 FEMALE PARTICIPANT: Right.

16 MALE PARTICIPANT: So I think we're okay.

17 MALE PARTICIPANT: Well, the Chairman made  
18 the decision he wanted (inaudible), I think his  
19 thinking was get out (inaudible) --

20 MALE PARTICIPANT: Right.

21 MALE PARTICIPANT: -- running different  
22 models.

23 MALE PARTICIPANT: And he did (inaudible)  
24 that we had to have a technical basis for, why are we  
25 saying 50 miles? Well, we had a technical basis.

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1 MALE PARTICIPANT: There were any number  
2 of scenarios that you could have used to support the  
3 50 miles.

4 FEMALE PARTICIPANT: That's right. But  
5 the general questions are now, the information to  
6 support (inaudible).

7 MALE PARTICIPANT: (Inaudible.)

8 MALE PARTICIPANT: Mike, are you going --

9 MIKE: Yes. I'm not going (inaudible).  
10 I'm going to a (inaudible).

11 MALE PARTICIPANT: You're supportive for  
12 this call.

13 FEMALE PARTICIPANT: Usually for the  
14 (inaudible) I don't have to go. It's up to you. I  
15 mean --

16 MALE PARTICIPANT: I don't think you need  
17 to go. I don't -- I'm not sure it's productive.

18 FEMALE PARTICIPANT: I think (inaudible).

19 MALE PARTICIPANT: We would rather have  
20 you here. .

21 FEMALE PARTICIPANT: You can give me  
22 information from the call and --

23 MALE PARTICIPANT: We're not going to get  
24 into any detail.

25 FEMALE PARTICIPANT: No, no, no.

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1 MALE PARTICIPANT: But if they have --

2 FEMALE PARTICIPANT: Remember Warren's  
3 question yesterday?

4 MALE PARTICIPANT: Yeah.

5 FEMALE PARTICIPANT: Okay. I got that at  
6 10:00 yesterday.

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MALE PARTICIPANT: Yes.

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1 FEMALE PARTICIPANT: Nothing from them in  
2 36 hours. That's my point.

3 MALE PARTICIPANT: Well, it's not 36  
4 hours. They did just the overflight. Is that what  
5 you're talking about?

6 FEMALE PARTICIPANT: No. No. And we do  
7 not have the information --

8 MALE PARTICIPANT: Okay.

9 FEMALE PARTICIPANT: -- on overflight.  
10 So --

11 MALE PARTICIPANT: Work it back through  
12 the stages and contacts.

13 FEMALE PARTICIPANT: I think we have  
14 worked it back, and we still don't have any --

15 MALE PARTICIPANT: If you can't, then I'll  
16 escalate it, but outside this call.

17 FEMALE PARTICIPANT: And we would like you  
18 to do that.

19 MALE PARTICIPANT: Okay.

20 FEMALE PARTICIPANT: I'll give you a call.

21 MALE PARTICIPANT: Let me know how to  
22 call.

23 MALE PARTICIPANT: All right.

24 (Multiple inaudible speakers.)

25 MALE PARTICIPANT: Bill, are you still on

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1 there? Do you want us to keep this line open?

2 (No response.)

3 FEMALE PARTICIPANT: There was a number of  
4 them in (inaudible) that didn't agree with the  
5 Chairman --

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1 (CONFERENCE CALL INITIATED)

2 MR. McDERMOTT: Josh, this is Brian  
3 McDermott.

4 JOSH: Hey, Brian, real quick. I'm giving  
5 you from the Chairman a cease and desist on the  
6 modeling that we started to attempt to do yesterday  
7 with the MACS code to get all the way to the U.S.

8 MR. McDERMOTT: Okay.

9 JOSH: We don't need to pursue -- we would  
10 like to stop pursuing that. We don't need to do that  
11 anymore.

12 MR. McDERMOTT: Okay.

13 JOSH: Copy?

14 MR. McDERMOTT: I copy.

15 JOSH: All right. We'll follow up -- I  
16 can follow up more after the call.

17 MR. McDERMOTT: Okay. Yeah, I'd like to  
18 understand. Thank you.

19 JOSH: Yeah. Yeah, yeah, yeah, yeah.

20 MR. McDERMOTT: Okay.

21 JOSH: Thanks.

22 MR. McDERMOTT: Bye.

23  
24  
25  
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1 (CONFERENCE CALL INITIATED)

2 JOSH: Hello?

3 BRIAN: Hey, Josh. We've got Charlie and  
4 Brian here.

5 JOSH: Hi, guys. How are you? So two  
6 quick things. One, Brian, to follow up on the earlier  
7 call, we've got much better and more accurate modeling  
8 from DOE. So I believe -- I think that is kind of  
9 some of the reasoning behind not having to continue to  
10 put our resources on that.

11 BRIAN: Josh, I want to just ask about  
12 that, because, you know, number one, we didn't -- we  
13 didn't really -- I wasn't in on the original request  
14 to have Research start doing stuff. But as a matter  
15 of principle and federal policy, you know, there is  
16 supposed to be one modeling and analysis center --

17 JOSH: Right.

18 BRIAN: -- with NARAC.

19 JOSH: Right.

20 BRIAN: And if that's the same as you mean  
21 with DOE, then we are in sync. If it's not --

22 JOSH: Yeah, yeah, yeah. Yeah. I believe  
23 it is, yeah.

24 BRIAN: Okay.

25 CHARLIE: Josh, this is Charlie. We're on

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1 the line with you here.

2 JOSH: Okay, great. Thank you.

3 Okay. So the other issue is -- the  
4 Chairman just reported out in the meeting, which is  
5 still ongoing, what our information is about their  
6 efforts to restore power today on 2, 5, and 6, and by  
7 tomorrow on 1, 3, and 4.

8 BRIAN: Yes.

9 JOSH: And then, that assumes -- assuming  
10 that the equipment is still functioning that would be  
11 a good sign. And then, a moment later in the call we  
12 got some conflicting information about how successful  
13 and how long that would take. So can you talk me  
14 through, in 30 seconds, where we got that information  
15 and why we think that and how likely we think that is  
16 to be successful?

17 MALE PARTICIPANT: I know it's being  
18 reported on the news, and I think that that also -- we  
19 heard that through the team, but we have no specifics  
20 on it.

21 MALE PARTICIPANT: I can't verify the  
22 source, Josh. But with regard to the likelihood of  
23 success, we are skeptical -- I've got to be honest --  
24 because I think our concern is not that they can't get  
25 power there, but whether or not they have the switch

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1 gear and things like that, how much that has been  
2 damaged with regard to being able to energize --

3 MALE PARTICIPANT: Right.

4 MALE PARTICIPANT: -- the power source.  
5 So it remains to be seen.

6 JOSH: Can you -- okay. So we can't  
7 (inaudible) the source of power -- timing we got from  
8 the news and from the team, so you are skeptical of  
9 success.

10 MALE PARTICIPANT: That's at least where  
11 we are today.

12 MALE PARTICIPANT: Skeptical from the  
13 concern perspective given what we know is the damage  
14 at the site.

15 MALE PARTICIPANT: Right. Before they had  
16 explosions, all right, there were reports of damage to  
17 the switch gear, and so forth, from the water from the  
18 tsunami. That was one report out of, you know, many  
19 that we heard over the last days. But that was even  
20 before they had these hydrogen explosions.

21 So, you know, the condition of the box  
22 work, what you have to do, it's certainly possible to  
23 restore it. But we just don't have that kind of  
24 detailed information to be able to say with assurance  
25 that, you know, once they get the offsite power there,

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1 they will be able to distribute it onsite effectively.

2 JOSH: So that sounds like an operation  
3 that would take longer. Like what's a realistic  
4 amount of time if everything was fine and you were  
5 going in there and just kind of starting from scratch  
6 with the state of the equipment as it stands now?

7 MALE PARTICIPANT: Are you talking about  
8 repairing damaged switch gear?

9 MALE PARTICIPANT: Or buses?

10 MALE PARTICIPANT: Or buses?

11 JOSH: Yeah.

12 MALE PARTICIPANT: I mean, that -- that  
13 would -- may not be practical given the radiation  
14 level.

15 JOSH: If you didn't have radiation.

16 MALE PARTICIPANT: Right. If we didn't  
17 have radiation, it would still take a considerable  
18 amount of --

19 MALE PARTICIPANT: It would take hours.

20 MALE PARTICIPANT: Yeah.

21 JOSH: Hours or days?

22 MALE PARTICIPANT: First of all, you would  
23 have to have the equipment --

24 MALE PARTICIPANT: Hours to days.

25 MALE PARTICIPANT: Yeah.

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1 JOSH: Okay.

2 MALE PARTICIPANT: Yeah.

3 JOSH: And that would be, you know,  
4 cobbling things together I would think. But, you know  
5 --

6 MALE PARTICIPANT: Josh, this is really  
7 speculation here, because we have -- all we are  
8 looking at is at the outside of the plant and trying  
9 to guess what is on the inside.

10 MALE PARTICIPANT: And whether or not even  
11 from the switch gear any cabling that would carry that  
12 is even intact or --

13 JOSH: Okay.

14 MALE PARTICIPANT: Just to give you an  
15 idea, the -- again, different BWRs, it will depend on  
16 where the switch gear room was located, too.

17 JOSH: Right.

18 MALE PARTICIPANT: I'm thinking two BWRs  
19 I'm familiar with --

20 MALE PARTICIPANT: Right.

21 MALE PARTICIPANT: -- newer ones.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: You know, the switch  
24 gear is halfway up the reactor building. We've seen  
25 pictures of some of those units, and we're going,

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1 "Wow, they're all blown out."

2 MALE PARTICIPANT: There's nothing there.

3 MALE PARTICIPANT: So --

4 JOSH: Is there any way to quickly ask the  
5 team where they got that information?

6 MALE PARTICIPANT: I can -- we can go ask  
7 the RC, yes.

8 MALE PARTICIPANT: Yes, we can go see --

9 JOSH: Okay.

10 MALE PARTICIPANT: Yeah.

11 MALE PARTICIPANT: We have somebody going  
12 back to get them right now.

13 JOSH: Great. Thank you.

14 MALE PARTICIPANT: Josh, while we're  
15 waiting, if you get a chance to talk to the  
16 Chairman --

17 JOSH: Yes.

18 MALE PARTICIPANT: -- the request from our  
19 end, from the PMT, of course, you know, we are waiting  
20 for a lot to run through NARAC. We're not getting  
21 priority, you know, and so -- there's aerial data that  
22 -- the runs that we needed to have done, we are not  
23 get priority for it. So that's just an FYI. We've  
24 been waiting quite a while to get that back.

25 JOSH: Say it again exactly, how he would

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1 say it.

2 MALE PARTICIPANT: Okay.

3 JOSH: We are not getting priority from --

4 MALE PARTICIPANT: We are not getting  
5 priority from NARAC through I guess NIT, which is --  
6 this comes out of the Agostino (phonetic) shop, as I  
7 understand it.

8 JOSH: Okay.

9 MALE PARTICIPANT: And others are getting  
10 priority. Now, these may be requests from the White  
11 House or from NMSA, or whatever, but --

12 JOSH: Not get priority from NARAC to --

13 MALE PARTICIPANT: To get the runs done  
14 that we need to have done. They have put us in a  
15 queue, but others are higher in the queue. So we're  
16 not getting the information back that we need.

17 JOSH: For what? What is it that we're  
18 doing?

19 MALE PARTICIPANT: These are runs that are  
20 done to try to do dose projections out beyond 50  
21 miles, including as far as the U.S. coast.

22 MALE PARTICIPANT: Now, Josh, if they're  
23 prioritizing the runs they need to make assessments  
24 for Tokyo --

25 MALE PARTICIPANT: Right.

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1 MALE PARTICIPANT: -- for the wind shift  
2 over the weekend --

3 MALE PARTICIPANT: Yes. But we don't  
4 know --

5 MALE PARTICIPANT: -- but we don't know.

6 MALE PARTICIPANT: We don't have enough  
7 information to know what is top priority in the queue  
8 and where we are in the queue.

9 JOSH: Okay.

10 MALE PARTICIPANT: We put a request in.  
11 They simply said, "We'll get to them when we get to  
12 them."

13 JOSH: Okay. But like I said, we don't  
14 need to go out to the U.S., because, at this point,  
15 that is being done by then.

16 MALE PARTICIPANT: Unfortunately, what our  
17 concern is is the calculations are showing extremely  
18 high doses, and we don't think they are credible.

19 JOSH: No, no, no. They have -- that has  
20 been corrected.

21 MALE PARTICIPANT: Okay. Well, we hadn't  
22 seen that.

23 JOSH: Okay. Okay. So having that  
24 information, do we still need priority for our runs  
25 for Japan protective action recommendation

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1 information?

2 MALE PARTICIPANT: I would say yes. Now,  
3 since they are (inaudible) this would be important to  
4 know with regard to whether we would recommend  
5 augmenting the decision that was made yesterday to go  
6 out to 50 miles. That question is going to come up.

7 JOSH: Okay. Got it.

8 MALE PARTICIPANT: We can't answer that  
9 question without this.

10 JOSH: Got it. Okay. Any news from this  
11 team?

12 MALE PARTICIPANT: They haven't come back  
13 in yet. Let me see what I can find out. Brian is  
14 going back to see if he can get anything.

15 MALE PARTICIPANT: He's trying to get it.

16 JOSH: Thank you.

17 Charlie, how is everybody there? Are they  
18 doing okay?

19 CHARLIE: Yeah. They're doing the best  
20 they can under the conditions. Everybody is still  
21 working hard. We've got very dedicated people that --

22 JOSH: Absolutely.

23 MALE PARTICIPANT: All right. Laura  
24 (inaudible) just walked in.

25 JOSH: Hi, Laura.

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1 LAURA: Hello.

2 MALE PARTICIPANT: It's Josh.

3 LAURA: Hi, Josh. I understand your  
4 question, and I -- I just talked to Tim Cole, who is  
5 our contact in the Embassy right now. And what he  
6 knows I think is similar to what you know, is that  
7 sometime tonight they expect to get one power source.  
8 I think they are focused on Unit 2.

9 There is some information, although I have  
10 not been able to confirm it, that they did check the  
11 switch gear and they should be able to get that first  
12 power source going on Unit 2, and then they expect a  
13 possible second source sometime tomorrow -- tomorrow  
14 in Japan. So that's all they knew at this moment.

15 MALE PARTICIPANT: Josh is interested --  
16 you know, the switch gear is damaged. How long would  
17 it take to get it replaced? That's not an easy thing  
18 to do.

19 LAURA: Yeah. And --

20 MALE PARTICIPANT: It may take days or  
21 weeks to do something about that.

22 LAURA: Yeah.

23 MALE PARTICIPANT: (Inaudible) area that's  
24 not hot.

25 LAURA: Right.

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1 JOSH: So you're saying we have  
2 conflicting information, that the switch gear might be  
3 okay?

4 LAURA: Yeah, that's what I heard. But I  
5 haven't confirmed that. So -- but there is an  
6 expectation that some of the switch gears on the lower  
7 level may have been flooded, but there are -- the  
8 switch gear in the control building that should be --

9 MALE PARTICIPANT: Right. That's what I  
10 just happened to (inaudible), too, so --

11 LAURA: Yeah.

12 MALE PARTICIPANT: -- TEPCO is trying to  
13 bring in 6.1 kV.

14 LAURA: Yeah.

15 MALE PARTICIPANT: By our best guess, the  
16 emergency buses are in the lower level of the control  
17 building, which would be similar to like a Vermont  
18 Yankee (inaudible). The buses that were flooded, that  
19 we heard about earlier, were in the turbine building.

20 LAURA: Turbine building, right.

21 MALE PARTICIPANT: So that's what we're  
22 hearing from our guys on the ground.

23 JOSH: Okay. That's -- okay, (inaudible)  
24 that down for me. There are emergency buses in the  
25 basement of the building which might be okay, and the

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1 turbine building no?

2 MALE PARTICIPANT: Correct. The building  
3 that we -- they say the operators are in the control  
4 room, so --

5 LAURA: Yes.

6 MALE PARTICIPANT: -- presumably that  
7 building is okay.

8 JOSH: Here is what I am getting. Tell me  
9 if this is okay. We can't verify the source of the  
10 timing to restore power. It's from the news and from  
11 our team, though. We are skeptical of success,  
12 because the damage at the site -- there is damage to  
13 some switch gear.

14 MALE PARTICIPANT: Non-safety-related.

15 JOSH: The damage is to the non-safety-  
16 related?

17 MALE PARTICIPANT: Right. That would be  
18 the stuff in the turbine building.

19 JOSH: Okay. So we think the safety-  
20 related switch gear is okay.

21 MALE PARTICIPANT: Well, we don't know,  
22 but we know some of it -- if it's in the control --  
23 there is speculation, Josh.

24 LAURA: Yes, I --

25 JOSH: I know, I know. I know.

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1           LAURA: Yeah. We -- we anticipate, or we  
2 think, that the safety-related switch gear may be  
3 operational.

4           MALE PARTICIPANT: Okay. And then, you've  
5 got to understand that, you know, that is connected to  
6 stuff out in the plant that is likely damaged.

7           MALE PARTICIPANT: Right.

8           MALE PARTICIPANT: They've got to go  
9 through a process of opening up all the breakers to  
10 the stuff that wouldn't be damaged, and then trying to  
11 get power to something that they thought was good, and  
12 then you don't know what happened to the cable run  
13 between the switch gear and the equipment.

14          JOSH: Right.

15          MALE PARTICIPANT: So there is a lot of  
16 uncertainty.

17          MALE PARTICIPANT: That's why we remain  
18 skeptical, or "uncertain" might be the better word.

19          MALE PARTICIPANT: Yes.

20          JOSH: Can't verify source of timing on  
21 power restoration. It's from news and what our team  
22 is being told by TEPCO?

23          LAURA: Yes.

24          JOSH: What our team is being told by  
25 TEPCO, conflicting reports on condition of safety-

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1 related electrical equipment.

2 MALE PARTICIPANT: I think -- I don't know  
3 about conflicting, it's just uncertainty regarding the  
4 condition of --

5 JOSH: Uncertainty regarding condition of  
6 what? Electrical --

7 MALE PARTICIPANT: Distribution.

8 JOSH: -- electrical distribution  
9 equipment.

10 MALE PARTICIPANT: Capability.

11 LAURA: Yes.

12 MALE PARTICIPANT: Electrical distribution  
13 capability.

14 LAURA: And then, you know, it's --  
15 there's got to be a pump somewhere that works.

16 JOSH: Okay. Hold on. Okay. So  
17 skeptical -- so that sum is -- the punchline is  
18 skeptical of success.

19 MALE PARTICIPANT: Uncertain of success.  
20 I'd avoid using the word "skeptical," because that  
21 would imply we --

22 JOSH: That's a value judgment. Right,  
23 that's a value judgment. We're not making a value  
24 judgment.

25 MALE PARTICIPANT: Right.

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1 JOSH: We're uncertain of success.

2 MALE PARTICIPANT: Right.

3 JOSH: And it would take hours to days,  
4 best case, right?

5 MALE PARTICIPANT: Yes.

6 JOSH: Best case. Okay. Perfect. Thanks  
7 guys, appreciate it.

8 MALE PARTICIPANT: All right, Josh.

9 JOSH: Talk to you later.

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1 (CONFERENCE CALL INITIATED)

2 MR. COLE: Hello?

3 MR. MILLER: Yes.

4 MR. COLE: Hello. This is Tim Cole.

5 MR. MILLER: Yes, Tim. This is Charlie  
6 Miller.

7 MR. COLE: Charlie, I got something that  
8 we went to a meeting tonight, and we met with the  
9 military personnel here in Japan that are helping  
10 coordinate the actions right now that are taking  
11 actions to pump fire truck water into the Unit 3 spent  
12 fuel pool.

13 Now, these are the guys that are actually  
14 doing the work now, so the [REDACTED]

15 [REDACTED] I will be  
16 meeting with them again tomorrow, but one thing that  
17 they are looking for, hopefully you can help me out  
18 with, is [REDACTED]

19 [REDACTED] [REDACTED] from like this moment on for the next  
20 three days, what is the priorities.

21 And, I mean, like spent fuel pool number 3  
22 is the first priority, get water on that. Then, move  
23 to number 4, or any type of priorities we can give  
24 them, so that they focus on the right things. Is  
25 there any help you can give us here to kind of give

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1       them some suggestions?

2 [REDACTED]

3               MALE PARTICIPANT: We'll get the reactor  
4 safety team right on it. Do we have -- this is a  
5 tough question. Do we have any information concerning  
6 the switch gear? We are hearing different stories,  
7 and we hear they are trying to run cable to the plant.

8       But there is questions from the Chairman's office  
9 concerning what it would take to get that energized.  
10 We told them it was uncertain.

11              MALE PARTICIPANT: Or what it's going to  
12 buy them.

13              MALE PARTICIPANT: Or what it buys them.  
14 So anything you can get on that would be helpful to  
15 us.

16              MR. COLE: Okay. You need any information  
17 as far as what power supplies --

18              MALE PARTICIPANT: Is it -- is there  
19 information available to say that might be a  
20 successful way to get water somewhere if you can get  
21 pumps running?

22              MR. COLE: Correct. I mean, they're not  
23 just working on one. This is TEPCO people. The  
24 military is working on whatever their priority is.

25              MALE PARTICIPANT: Okay. You're looking

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1 for priorities for the military and where they need to  
2 get water first --

3 MR. COLE: That's correct.

4 MALE PARTICIPANT: -- second and third.  
5 All right.

6 MR. COLE: And we are going to be in a  
7 meeting with them tomorrow to -- they want help from  
8 the NRC on -- are they doing the right thing to get --  
9 because [REDACTED] right now, but  
10 I think maybe the Ambassador and the Chairman may be  
11 helping out with that.

12 LAURA: Hey --

13 MR. COLE: So anyway --

14 LAURA: Oh, sorry.

15 MR. COLE: Go ahead. Anyway, that's what  
16 we're looking -- just a general direction to go for  
17 them.

18 MALE PARTICIPANT: General direction,  
19 okay.

20 MR. COLE: Okay?

21 MALE PARTICIPANT: And that's specific to  
22 using their trucks that spray water.

23 MR. COLE: No. They're doing that now.  
24 Like they want to know specifically, like this  
25 equipment that's coming in, we're lining that part up

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1 ourselves already. They are going to -- they can do  
2 that in parallel, but they want to make sure that when  
3 they -- they send dose to these people, that it's on  
4 the right focused area for that -- that's the most  
5 urgent need. So that's what I'm looking at as far as,  
6 you know, they are burning these people out, and is it  
7 on the right thing? So --

8 MALE PARTICIPANT: Yeah.

9 MR. COLE: You know, this is -- and this  
10 is -- they have been asking help for long-term-wise,  
11 but long-term-wise that's a different story. I just  
12 need something so they can work on for the next two  
13 days, three days, whatever you can give me. And  
14 we'll --

15 MALE PARTICIPANT: (Inaudible) getting  
16 these pumping mechanisms to get seawater in that we  
17 have been trying to work on, or not?

18 MR. COLE: No. They can already support  
19 that as far as moving it. No, it's actions to take to  
20 counteract all the radiation, to make sure we don't  
21 have any more fuel melting anywhere, those actions.

22 LAURA: Tim, we're working up a -- what we  
23 have. We were just on the call with you -- this is  
24 Laura -- a few moments ago. So we are taking all of  
25 the plan A, plan B, plan C, in terms of getting water

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1 up there, plan A being the big pumping system and the  
2 logistics associated with that.

3 And also, we are going to include  
4 recommendations on fielding and other activities. So,  
5 you know, I think the team is working on all three of  
6 those simultaneously right now, and we should be able  
7 to get something to you in short order.

8 MR. COLE: Okay. That's great. I will  
9 feed that along to them. So that would be -- coincide  
10 with what we're telling them here as far as  
11 recommending things that they might want to think  
12 about doing. Okay.

13 Okay. So any other questions? I know I  
14 need to get back to you on power supplies, if we can  
15 give you any information.

16 LAURA: Yeah. I mean, I guess --

17 MALE PARTICIPANT: It's also helpful if we  
18 can get any updated information for exactly what is  
19 being done now to try to get water anywhere.

20 LAURA: Yeah. I did get a confirmation,  
21 actually, just a moment ago, although, you know,  
22 everything is sketchy. But we have a Naval Reactors  
23 person embedded now with the RST who on their morning  
24 call this morning -- this is a guy named -- by the  
25 name of (inaudible) Mueller, who is in Yokuska Naval

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1 Base in Japan, according to the NR morning call, they  
2 said that the pumps that were delivered yesterday are  
3 onsite and being used to put water into the reactor.  
4 I can't confirm that, but that was what I got from NR.

5 MALE PARTICIPANT: Yes. They do have  
6 those pumpers onsite and in stand-by. I don't know  
7 that they have used them yet. But if their equipment  
8 isn't working, yes, they will use those as necessary.  
9 They are available.

10 LAURA: All right. So these diesel-driven  
11 pumps are already staged onsite.

12 MALE PARTICIPANT: They are staged -- I'm  
13 talking about fire trucks, the fire trucks that you  
14 guys -- somebody sent to the site. They have them  
15 there.

16 Now, the diesel pumps, yes, they have that  
17 equipment. I think it's staged in their staging area  
18 outside the plant and --

19 LAURA: Right.

20 MALE PARTICIPANT: -- they are trying to  
21 -- you know, they will use that as they can get the  
22 equipment to use it on something.

23 MALE PARTICIPANT: Yes, but --

24 MALE PARTICIPANT: Yes, they have the  
25 equipment.

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1 MALE PARTICIPANT: Yes. We've got some  
2 uncertain information as to the ability of that  
3 equipment to function in the (inaudible) to the piping  
4 that is necessary. So --

5 MALE PARTICIPANT: I don't know that  
6 detail, whether or not they have had issues with that,  
7 so --

8 MALE PARTICIPANT: So, again, you know, we  
9 wouldn't want to recommend that somebody go spend  
10 (inaudible) on something like that, if it's not going  
11 to make it operable.

12 LAURA: Correct.

13 MALE PARTICIPANT: Right.

14 LAURA: Now, you've got to test it and  
15 connect it --

16 MALE PARTICIPANT: Yeah.

17 LAURA: -- ahead of time and know how long  
18 it takes to connect it when they're out there --

19 MALE PARTICIPANT: Right.

20 LAURA: -- and what you have to do. In  
21 fact, for plan A, on this one, we almost need -- I  
22 mean, as part of -- this is their timing in terms of  
23 that longer term pumping system, the four loops,  
24 because we can't have them go bring that onsite until  
25 they have staged it and fully tested it, so that it

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1 arrives almost as a kit --

2 MALE PARTICIPANT: Correct.

3 LAURA: -- that someone can try on. So we  
4 are aware of all those issues, and we are trying to  
5 get the right people and the right steps to provide  
6 for that.

7 MALE PARTICIPANT: Okay. Obviously, this  
8 meeting that we are having tomorrow morning, we will  
9 get more info as far as what roadblocks or what -- any  
10 other additional support as far as getting this  
11 equipment running and going. So --

12 MALE PARTICIPANT: Okay.

13 MALE PARTICIPANT: -- whatever you can --  
14 whatever help we can provide --

15 MALE PARTICIPANT: Right.

16 MALE PARTICIPANT: -- they will figure out  
17 how to use it.

18 MALE PARTICIPANT: Okay. So what really  
19 -- all I'm asking is -- what I need is some type of a  
20 general --

21 MALE PARTICIPANT: Priority.

22 MALE PARTICIPANT: -- path forward, and,  
23 you know, just so when I speak to these people and not  
24 recommend, but suggest options that they have  
25 available, or recommendations, whatever, that we can

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1 -- that we can -- we think that's the right path for  
2 the site. You know what I mean?

3 MALE PARTICIPANT: Yeah. And, I mean, but  
4 from our end is we'll help with (inaudible) as we go  
5 forward. You know, we're operating on the knowledge  
6 that we have given the condition of the reactors and  
7 the spent fuel pools.

8 MALE PARTICIPANT: Yeah. And I --

9 MALE PARTICIPANT: If we get any more  
10 information that is reliable that is critical to us in  
11 ordering the prioritization --

12 MALE PARTICIPANT: And one thing we did  
13 learn tonight is the -- I guess the rumor was that  
14 Unit 2 containment might be breached or whatever. You  
15 know, they said tonight, no, that's not the case. All  
16 their pressure indications indicate that it's not  
17 leaking at all.

18 MALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: So, obviously, that  
20 loud noise they thought was when Unit 4 blew up, that  
21 somebody heard that and thought it was the  
22 containment. So, anyway, that's their theory, but --

23 MALE PARTICIPANT: They are saying the  
24 Unit 2 containment is still intact.

25 MALE PARTICIPANT: That's correct.

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1 MALE PARTICIPANT: And "they" being TEPCO?

2 MALE PARTICIPANT: TEPCO, the people that  
3 are at the plant running it.

4 MALE PARTICIPANT: Okay. Okay. Anything  
5 you could send me. Yes?

6 LAURA: Tim, one item -- and it's not --  
7 just for the next time, I think we will be in touch  
8 with you or -- are you getting to bed any time?

9 MR. COLE: I'm going pretty soon. It'll  
10 probably be Rick Deaver-Chelley (phonetic) will be on  
11 the call at 1:00 in the morning. Or, no, I think it's  
12 2:00 our time.

13 LAURA: Okay. All right.

14 MR. COLE: Four hours from now.

15 MALE PARTICIPANT: All right. So  
16 currently it's 10:30 your time, right, Tim?

17 MR. COLE: Yes. So, well, I'm going to  
18 write up a little -- you know what you can do. Hey,  
19 what's the best e-mail to send something to us here,  
20 besides my e-mail?

21 MALE PARTICIPANT: Yeah. How do we reach  
22 for (inaudible) information?

23 MR. COLE: Well, I want Deaver-Chelley  
24 (phonetic) to get this little plan.

25 MALE PARTICIPANT: Yes. (Inaudible.)

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1 MR. COLE: Hey, Laura?

2 LAURA: Yes?

3 MR. COLE: Can you -- when this get this  
4 plan written together for the phone call, whatever  
5 information you have that we talked about earlier --

6 LAURA: Yes.

7 MR. COLE: -- if you get that in writing,  
8 if you could e-mail that to Rick Deaver-Chelley at  
9 nrc.gov, you know that -- his e-mail, I'll write it  
10 up.

11 LAURA: Can you spell his name?

12 MR. COLE: What?

13 LAURA: I'll figure it out.

14 MR. COLE: Rick might not be his total  
15 e-mail, but anyway -- e-mail that to him and me both,  
16 and then that way I don't have to sit here and write  
17 this up for the next hour and --

18 LAURA: Okay, yeah. So, and then he will  
19 be our contact through the day -- our day, your night.

20 MR. COLE: Yes. So he will be on the 2:00  
21 phone call.

22 MALE PARTICIPANT: Okay.

23 LAURA: All right.

24 MR. COLE: So I will be back in probably  
25 at 6:00, 6:00 in the morning, so I'll be looking for

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1 that e-mail as far as the path forward. And if I've  
2 got any questions, I'll call you guys back.

3 MALE PARTICIPANT: Very good.

4 MR. COLE: And that's -- I think that's  
5 all I need for now.

6 MALE PARTICIPANT: All right. Thank you.  
7 Get some rest.

8 MR. COLE: Thank you.

9 MALE PARTICIPANT: Okay.

10 LAURA: Thank you.

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1 (CONFERENCE CALL INITIATED)

2 MIKE: Chairman?

3 CHAIRMAN JACZKO: Hi. Is this Mike?

4 MIKE: This is Mike.

5 CHAIRMAN JACZKO: Okay. Hey, Mike, I know  
6 you were listening in on the call. I'm going to talk  
7 to DOE, Dan Tonoman (phonetic), and suggest that we  
8 put together a group at least that communicates once a  
9 day or at least we have good communication, and a  
10 group that would include INPO, DOE, Naval Reactors,  
11 and ourselves, to coordinate various industry and  
12 other kind of requests or offers of assistance, so  
13 that ultimately we can coordinate that and get it to  
14 the team in Tokyo. Does that make sense?

15 MIKE: Yeah.

16 CHAIRMAN JACZKO: Okay. So I just talked  
17 to [REDACTED] He is comfortable with that. I know we  
18 are communicating very well with them, so maybe -- and  
19 I think we are also communicating very well with Naval  
20 Reactors. So the idea might be to just get that --  
21 get DOE pulled into that group, so we can keep things  
22 coordinated.

23 MIKE: That would be beneficial. We have  
24 a Naval Reactors individual here now working with us  
25 around the clock.

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1 CHAIRMAN JACZKO: Oh, great.

2 MALE PARTICIPANT: (Inaudible.)

3 MALE PARTICIPANT: And DOE.

4 MALE PARTICIPANT: And DOE.

5 CHAIRMAN JACZKO: Oh, we do. Okay, good.

6 MALE PARTICIPANT: We are about to have  
7 our daily call with INPO.

8 CHAIRMAN JACZKO: Okay, good.

9 MALE PARTICIPANT: So, like you said, we  
10 are working well, but this will bring DOE more into  
11 the fold.

12 CHAIRMAN JACZKO: Yeah. Okay, good.  
13 Good. Well, I'll talk to Dan Tonoman about that, and  
14 then maybe I'll just have him -- or maybe have him go  
15 to Pete Lyons and have Pete Lyons reach out to you,  
16 and then figure out how to get that all set up.

17 MIKE: Okay.

18 CHAIRMAN JACZKO: Okay.

19 MIKE: All right. And we are chasing down  
20 today versus tomorrow.

21 CHAIRMAN JACZKO: Okay, good.

22 MIKE: Laura said that "today" means today  
23 in Japan.

24 CHAIRMAN JACZKO: Okay.

25 MIKE: So that --

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1 CHAIRMAN JACZKO: Okay.

2 MIKE: -- is within the next hour or so,  
3 but that's what we understood from our team on the  
4 ground in Japan.

5 CHAIRMAN JACZKO: Okay, good.

6 MIKE: So do you feel the need to get back  
7 to [REDACTED] with that information?

8 CHAIRMAN JACZKO: I don't think so. Let's  
9 just, in the next sit rep, let's just maybe put that  
10 with a greater clarification on the next report.

11 MIKE: Okay.

12 CHAIRMAN JACZKO: I think that's  
13 sufficient.

14 MIKE: Okay.

15 CHAIRMAN JACZKO: Anything else? We don't  
16 have congressional affairs there at all, do we?

17 MIKE: We have somebody from congressional  
18 affairs on our liaison team.

19 CHAIRMAN JACZKO: Okay, great. Oh, yeah,  
20 that's the other thing. So they are going to do state  
21 interactions? You got that from the call?

22 MIKE: Right. I briefed the teams on  
23 that.

24 CHAIRMAN JACZKO: And I think -- so I  
25 think what we probably would want to do is not

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1 necessarily do an independent effort on our part. But  
2 if we get our stage liaison officers calling in, that  
3 we -- we try and funnel that to the one -- the one  
4 kind of U.S. Government interaction. I think that  
5 will be -- that will be easier and it will take a  
6 little bit of load off of us. Does that make sense?

7 MIKE: Yeah, that does make sense. We  
8 were going to try to participate as part of that call,  
9 so we understand --

10 CHAIRMAN JACZKO: Good, excellent.

11 MIKE: -- what is being shared.

12 CHAIRMAN JACZKO: Perfect.

13 MIKE: And if we get contacted separately  
14 by our SLOs, we will have that information to share  
15 back with them. But we will encourage them, to the  
16 extent we can, to work through that one call.

17 CHAIRMAN JACZKO: Okay, good. Perfect.  
18 Can you get congressional?

19 MIKE: Yes. David Decker is here.

20 CHAIRMAN JACZKO: Hey, David.

21 MR. DECKER: Yes.

22 CHAIRMAN JACZKO: Can we make sure that  
23 we've got a consistent congressional outreach, either  
24 at least maybe daily briefings or something to that  
25 effect? Do you know if that is going on?

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1 MR. DECKER: I don't know, but I will call  
2 back and find out and get that up, yeah.

3 MALE PARTICIPANT: Chairman, we are --

4 CHAIRMAN JACZKO: Okay.

5 MALE PARTICIPANT: -- participating as  
6 part of the USAID daily call, which is at 2:00.

7 MALE PARTICIPANT: Okay. Okay, good.

8 MR. DECKER: And staffers know about that.

9 MALE PARTICIPANT: Chairman, this is  
10 (inaudible) calling -- talking. Becky just came back  
11 from a morning meeting, and efforts are underway to  
12 establish daily briefings for the Hill staffers.

13 CHAIRMAN JACZKO: Okay, great.

14 MALE PARTICIPANT: Separate from AID?

15 MALE PARTICIPANT: Yes, separate from AID.

16 CHAIRMAN JACZKO: Okay. And I think  
17 that's okay. We probably still want to participate in  
18 the AID, but I think having a separate one for us is  
19 okay as well, because we do have a slightly separate  
20 role in activities that are not necessarily -- not  
21 necessarily, you know, related to the Japan issue, but  
22 there is some work we have to start doing,  
23 communicating kind of our going forward actions and  
24 things like that, which of course are independent.

25 So I think that's okay -- to do that

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1 separate briefing. But I think we should still  
2 continue to participate in the AID call as well.

3 BILL: This is Bill. Chairman, you know  
4 we have a 9:30 EPW staff briefing tomorrow morning.

5 CHAIRMAN JACZKO: Okay, great. Excellent.

6 MALE PARTICIPANT: Chairman, one of the  
7 issues has arisen this morning is meeting with our  
8 people on the ground in Tokyo with their Ministry of  
9 Defense.

10 CHAIRMAN JACZKO: Okay.

11 MALE PARTICIPANT: And what they are  
12 asking for is for NRC staff to identify their  
13 priorities for recontrolling the plant --

14 CHAIRMAN JACZKO: Okay.

15 MALE PARTICIPANT: -- and the spent fuel  
16 pool.

17 CHAIRMAN JACZKO: Okay.

18 MALE PARTICIPANT: And that will put us in  
19 the position of providing advice. And what they tell  
20 us is that they will take our advice on what their  
21 priorities need to be.

22 CHAIRMAN JACZKO: Okay, good.

23 MALE PARTICIPANT: Are you comfortable  
24 being in that position?

25 MALE PARTICIPANT: Normally, we're not --

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CHAIRMAN JACZKO: Yes.

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1 CHAIRMAN JACZKO: Okay. Well, then give  
2 them the best information that we think we can. Okay?

3 MALE PARTICIPANT: And then, obviously,  
4 sir, the challenge is we have inconsistent and  
5 conflicting information. Even our people on the  
6 ground don't have absolute understanding, obviously,  
7 of what is going on with those --

8 CHAIRMAN JACZKO: Yes.

9 MALE PARTICIPANT: -- (inaudible). So I  
10 think we will encourage our team that whatever they  
11 provide they need to provide that caveat that, you  
12 know, this is to the best of our understanding. If we  
13 were in a similar situation, we would expect our  
14 licensees to take the following actions.

15 CHAIRMAN JACZKO: Yes, that's fine.

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MALE PARTICIPANT: Yes, sir. Understood.

BILL: Chairman, this is Bill. I have one quick other thing for you.

CHAIRMAN JACZKO: Sure.

BILL: Is there a number I can call you at?

CHAIRMAN JACZKO: Yes. Can I -- I'm trying to do a call with Congresswoman Lowey (phonetic) and then with Dan Tonoman. Can you wait about 15 minutes?

BILL: Yeah. I'll call you in about a half hour, then.

CHAIRMAN JACZKO: Okay, good. Thanks.

BILL: Bye.

CHAIRMAN JACZKO: And call my cell.

BILL: Okay. Bye.

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1 (CONFERENCE CALL INITIATED)

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MALE PARTICIPANT: Yeah. I mean, that's consistent with what we tried to tell Josh.

MALE PARTICIPANT: Right.

MALE PARTICIPANT: Days, weeks.

MALE PARTICIPANT: Right.

MALE PARTICIPANT: Not knowing the exact nature of the damage to the switch gear.

MALE PARTICIPANT: And operating in a high rad field.

MALE PARTICIPANT: And operating in a high rad field, even if the switch gear is in place, and what is the condition of the cabling, which would --

MALE PARTICIPANT: Right.

MALE PARTICIPANT: -- activate the equipment.

MALE PARTICIPANT: A lot of unknowns there that will impact --

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We got into a discussion about -- from  
other agencies, what they know, what they don't know  
from [REDACTED] I won't go over that. They  
(inaudible).

And then, throughout the call, from that

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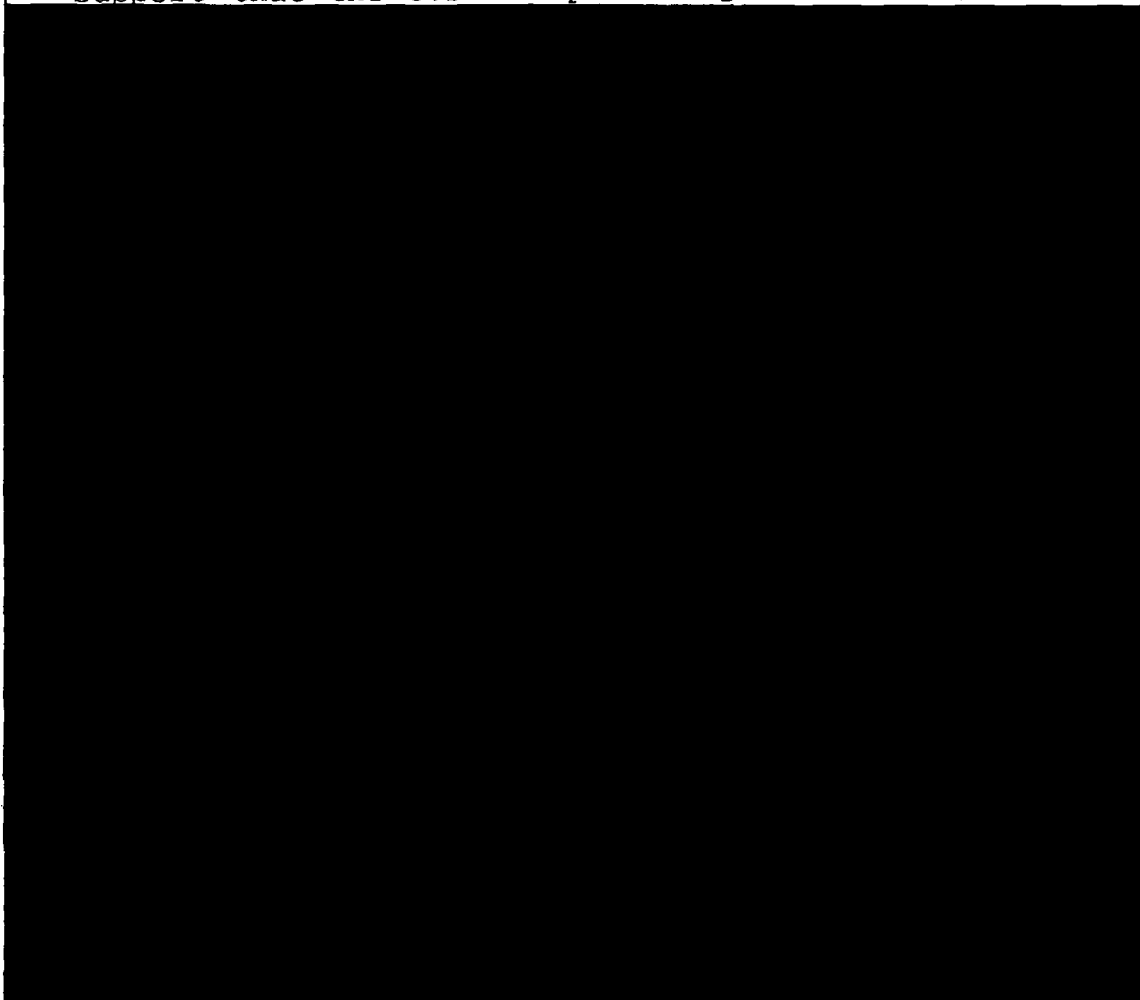
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1 point on, there was a chorus of voluntary departure,  
2 and also this will have no impact on the ongoing  
3 support that the U.S. is providing for the Japanese.



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16  
17 There was a confirmation that the boron  
18 shipment has been arranged, so the 20,000 pounds from  
19 Diablo Canyon is going to depart from McChord Air  
20 Force Base at 1600 Zulu. That's in an hour and 50  
21 minutes. And it should arrive in Japan at 0900 Zulu  
22 on the 19th. So -- okay. I know they were trying to  
23 track that down yesterday -- whether they were  
24 interested in that, whether they could use it --

25 MALE PARTICIPANT: Right, right.

5

1 MALE PARTICIPANT: So that was  
2 (inaudible). We talked about the fruitful discussion  
3 between the Ministry of Defense and our team. That  
4 was brought up as a very positive development that  
5 came from the Department of Defense side. So I guess  
6 they are hearing that back from their counterparts,  
7 you know, and their liaison with their counterparts,  
8 and they said that, yes, they had a very good  
9 discussion with the NRC team in Japan. So we are  
10 moving on that.

11 The Chairman at that point encouraged that  
12 our team be that central focal point for providing the  
13 technical assistance to our Japanese counterparts.  
14 And they disagree on that, so they agreed that they  
15 would take that offline, which is I presume why he is  
16 having as discussion with the Deputy Secretary.

17 But, you know, he I think very eloquently  
18 stated that it will help to have one central focus and  
19 not, well, how about you do this over here, and how  
20 about you do this over here, and --

21 MALE PARTICIPANT: Yeah. I want to get to  
22 that when you're done.

23 MALE PARTICIPANT: Okay. I've already  
24 covered that. [REDACTED]

25 [REDACTED]

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1 MIKE CASE: Hopefully, that will be

2 supported

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

13 MR. CASTO: Certainly. Well, you know,

14 it's -- just to expound on that a little bit. Let me

15 tell you, DOE, DART, US Force, I mean aircraft

16 carriers, [REDACTED] -- I mean, this is a huge -- the NRC,

17 obviously, I think has been the focal point of it, but

18 there are a lot of people doing a lot of work related

19 to it.

20 MIKE CASE: And that's great, and we

21 appreciate what you're doing. They did talk about

22 dosimetry, that all the DOD, DOE, and NRC people in

23 the team in country are badged and have appropriate

24 dosimetry. And that NRC and others are helping the

25 DART team arrange the appropriate protocols for

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1 dosimetry of the staff that are there.

2 They are scrambling somewhat within the  
3 Department of Defense to arrange for appropriate  
4 dosimetry. In some cases, they're area dosimetry for  
5 some of the ground troops, but that's the best they  
6 can do until they can actually equip all the  
7 individuals with the --

8 HHS came out with a CDC fact sheet on  
9 health risks to individuals in Tokyo. Apparently,  
10 it's posted on their website. They were going to get  
11 around the web address, but I'm sure if it's posted it  
12 ought to be pretty prominent. So, I would suggest we  
13 pull that up.

14 They did have a call yesterday with the  
15 State Public Health Officials and also Canadian  
16 representatives. And just to reemphasize what I  
17 discussed before, there's a lot of eagerness to get  
18 access to the government's modeling result, so we  
19 understand what they are; talked about a variety of  
20 things with alarms going off at airports and mail  
21 being intercepted from Japan, so they are working  
22 together. They appreciate the guidance that they got  
23 from the NRC, and also from DOE.

24 DHS has spoken up and said that they are  
25 using the personal rad detection capability that they

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1 have as the detectors at the airports to passively  
2 screen passengers as they return to the United States.

3 They've no elevated readings so far that have caused  
4 any concern, but they will coordinate through the  
5 inter-agency to make sure that they're applying the  
6 appropriate guidelines.

7 They did have --

8 FEMALE PARTICIPANT: Mike, they asked what  
9 the level was for release of passengers so we do not  
10 issue a (inaudible). They don't have a protocol yet  
11 for that.

12 MIKE CASE: Right. Okay. Well, they  
13 didn't allude to that on the call.

14 FEMALE PARTICIPANT: I understand, but so  
15 you're aware of it.

16 MIKE CASE: Okay.

17 MALE PARTICIPANT: Who would have the lead  
18 for that, EPA?

19 FEMALE PARTICIPANT: EPA should, but we've  
20 got this issue going on (inaudible).

21 MIKE CASE: They did have 23 hits on  
22 cargo, so all those hits were at very low levels, five  
23 to forty micro R per hour. They had an air filter on  
24 a jet that landed in Dallas-Fort Worth that was at 267  
25 micro R per hour, so that was the hottest thing they

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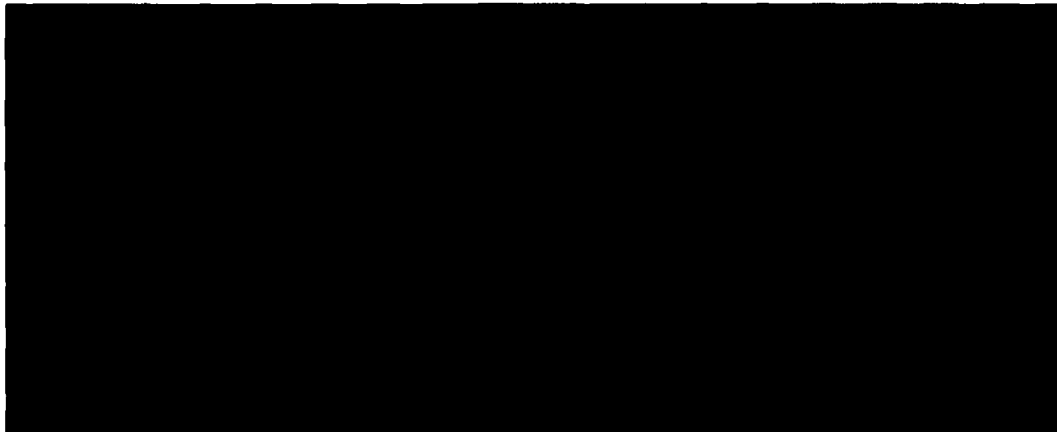
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1 found.



8 MALE PARTICIPANT: You said the jet air  
9 filter was at 250 micro R?

10 MIKE CASE: 267 micro R per hour. It  
11 sounds like they just have a micro R meter --

12 MALE PARTICIPANT: Right.

13 (Background conversations.)

14 MALE PARTICIPANT: What are we talking  
15 normal background?

16 FEMALE PARTICIPANT: 250 to 350. At what  
17 height are they at, 40,000 feet?

18 MALE PARTICIPANT: Yes.

19 FEMALE PARTICIPANT: And they're going to  
20 get --

21 MALE PARTICIPANT: Contamination anyway.

22 FEMALE PARTICIPANT: From positive  
23 radiation.

24 MALE PARTICIPANT: Positive.

25 FEMALE PARTICIPANT: We'd have to see what

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1 it is, and what they find.

2 MALE PARTICIPANT: Yes, that's not going  
3 to be particulate on the filter.

4 FEMALE PARTICIPANT: I didn't know the  
5 filter or the micro R.

6 MALE PARTICIPANT: It's micro R per hour,  
7 so it sounds like it's a meter reading of a filter.  
8 So, we don't have any pedigree on that measurement, so  
9 take it for what it's worth.

10 MALE PARTICIPANT: What we're seeing in  
11 the media, just so you think about this, is that  
12 you're seeing things being described in multiples of  
13 normal background.

14 MALE PARTICIPANT: Right.

15 FEMALE PARTICIPANT: Right.

16 MALE PARTICIPANT: So, Vinnie's point is -  
17 -

18 MALE PARTICIPANT: We don't know.

19 MALE PARTICIPANT: -- if normal background  
20 for an air filter flying at 40,000 feet or 37,000 feet  
21 is going to be higher than it is here on the ground  
22 certainly. Right?

23 MALE PARTICIPANT: So, those readings may  
24 or may not have anything to do with the accident.

25 MIKE CASE: Exactly right. That's a good

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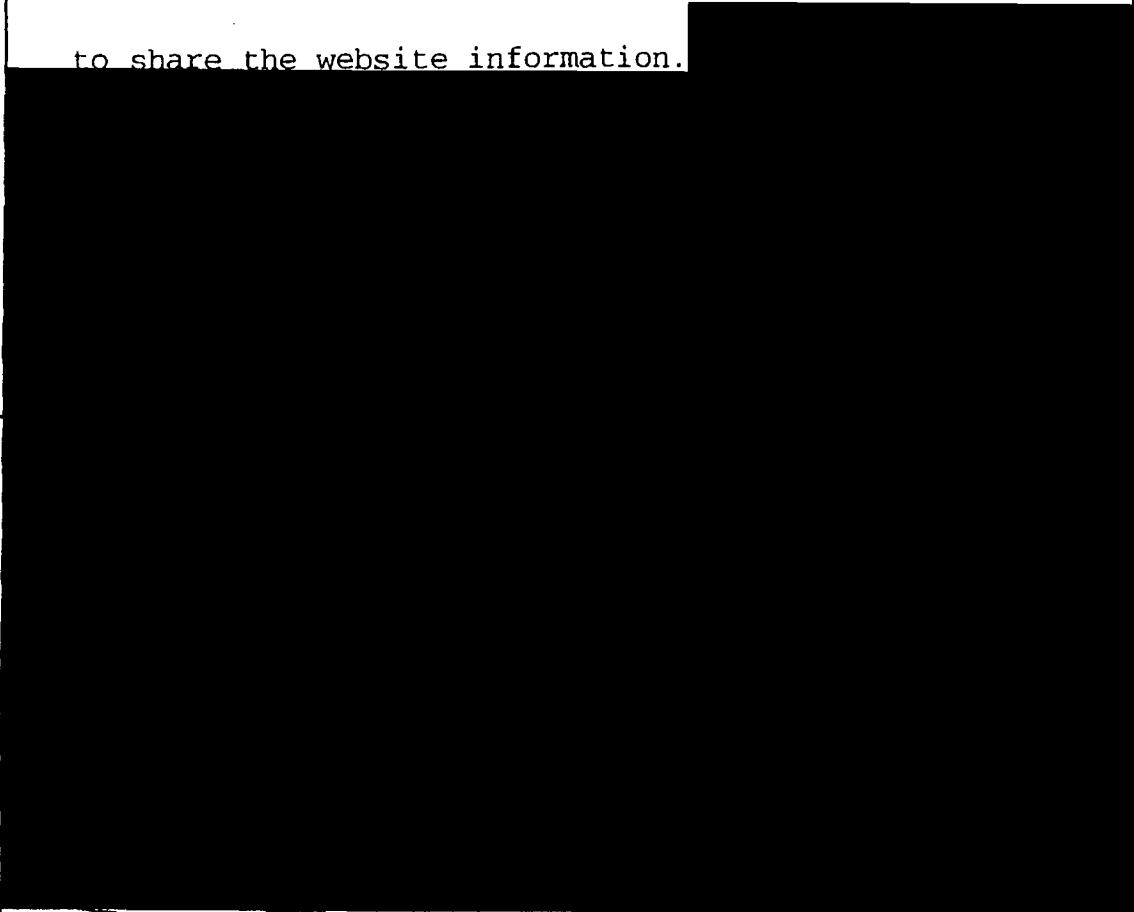
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1 way to clarify it. So, the action items, CDC is going  
2 to share the website information.



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14 So, other than to clarify today, tomorrow  
15 that was our only action. And it sounds like the  
16 Chairman said just take care of that situation.

17 MALE PARTICIPANT: Okay. I had a couple  
18 of reactions --

19 MIKE CASE: Go ahead.



20  
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1 MIKE CASE: Right.

2 MALE PARTICIPANT: [REDACTED]

3 [REDACTED]

4 [REDACTED] That's key for the team to  
5 have, especially if we get hit with another quick  
6 request to print out a press release.

7 MIKE CASE: The modeling that was  
8 discussed and, Jane, you can verify this, but it was  
9 all with respect to what do we expect to see here in  
10 the United States, including Hawaii, Alaska --

11 MALE PARTICIPANT: Well, that would not be  
12 us.

13 MIKE CASE: That would not be us. Okay.

14 MALE PARTICIPANT: That's right.

15 MIKE CASE: And that's consistent with  
16 calling off MAX extension.

17 MALE PARTICIPANT: We're aligned.

18 MIKE CASE: Yes. They're going to --

19 FEMALE PARTICIPANT: We've been sending  
20 Emile the research, though, because they had --

21 MIKE CASE: Okay. So, they may not have  
22 had the word coming out of the Ops Center. So, I'm  
23 presuming we still retain the obligation to insure  
24 that we have a sufficient basis for whatever  
25 protection action recommendations we make.

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1 MALE PARTICIPANT: Okay.

2 MIKE CASE: And we need to update based on  
3 the emerging situation, and we need to update those  
4 runs. Now, it would make sense that we're sharing our  
5 source term information with the people on that long  
6 scale model. Right?

7 MALE PARTICIPANT: Yes.

8 MIKE CASE: Because if there's difference  
9 in there, that would create a potential conflict.

10 MALE PARTICIPANT: Are we (inaudible) to  
11 give recommendations to the Ambassador. Because we  
12 got into this at the beginning, like (inaudible)  
13 advising the Ambassador.

14 MIKE CASE: Yes.

15 MALE PARTICIPANT: So, (inaudible) only  
16 goes out to 50 miles.

17 FEMALE PARTICIPANT: But the request we  
18 had yesterday at 6:54 a.m., which we're still waiting  
19 on, has to go out past Tokyo, go out at least 150-200  
20 miles.

21 MIKE CASE: Okay.

22 FEMALE PARTICIPANT: Well, we should be  
23 able to get that information --

24 MALE PARTICIPANT: At least the first  
25 estimate.

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1 FEMALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: But a 24-hour  
3 turnaround? You're really talking about changing  
4 conditions.

5 FEMALE PARTICIPANT: It's tough.



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23 MIKE CASE: I would think we would work  
24 back through DOE. We would reach alignment that we  
25 still have a need to do the near field modeling.

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1 MALE PARTICIPANT: Okay.

2 MIKE CASE: Because people are relying on  
3 that for those protective action recommendations. And  
4 if the basis for that recommendation changes, we need  
5 to stay current.

6 MALE PARTICIPANT: You want me to contact  
7 (inaudible).

8 MIKE CASE: Yes, can you do that?

9 MALE PARTICIPANT: All right. I can do  
10 that.

11 MIKE CASE: That would be in then in  
12 parallel with what the Chairman is going with --

13

14

15

16

17 MIKE CASE: Okay.

18 FEMALE PARTICIPANT: She can provide that,  
19 too.

20 MIKE CASE: Well, let's work first with  
21 the DOE. If we can't resolve, which I would hope we  
22 can resolve it --

23 FEMALE PARTICIPANT: I go back to the  
24 Dansa response framework and it would not be a -- I  
25 think that's your -- you would not be on it.

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1 MALE PARTICIPANT: For the U.S.

2 FEMALE PARTICIPANT: That's correct.

3 MALE PARTICIPANT: In case of people in  
4 Japan --

5 MIKE CASE: Right.

6 MALE PARTICIPANT: We're going to have to  
7 make sure the U.S. Government is aligned on who it  
8 is until they have the responsibility to do that. We  
9 don't think we do, and then somebody else is out there  
10 doing it, too --

11 MIKE CASE: Absolutely.

12 MALE PARTICIPANT:   
13   
14 

15 MIKE CASE: Okay.

16 MALE PARTICIPANT: I had something else.

17 FEMALE PARTICIPANT: NEI call?

18 MALE PARTICIPANT: Marty asked me to call  
19 NEI. That's when I stepped out before.

20 MIKE CASE: Okay.

21 MALE PARTICIPANT: Angela talked to Marty.

22 Ralph Anderson talked to us today. NEI took our  
23 press release, of course, like everybody else, and  
24 they're very interested. NEI wants to stay aligned  
25 with us. They don't want to be speaking and somehow

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1 saying something different than we -- they want to  
2 stay aligned. In order to be able to do that, they  
3 want to be able to have communication with us so that  
4 we can talk with each other. And Eric went off, to  
5 leave to do that. I guess he talked to you?

6 MALE PARTICIPANT: Yes, he did.

7 MALE PARTICIPANT: Yes. Okay.

8 MALE PARTICIPANT: Start with you, Eric  
9 took it, and --

10 MALE PARTICIPANT: Yes.

11 MALE PARTICIPANT: Prepared to call NEI.

12 MALE PARTICIPANT: So, I will give you who  
13 Ralph gave me as a point of contact at NEI.

14 MALE PARTICIPANT: Chris (inaudible) is  
15 not who I want to talk to.

16 MALE PARTICIPANT: Yes.

17 MALE PARTICIPANT: Chris (inaudible) will  
18 be the person that our liaison team person talks to.

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: And it's a two-way  
21 street. We're going to add one to the list of three  
22 that they gave us. They have a request, they want to  
23 understand the background, the ones on the rascal that  
24 supported the (inaudible).

25 MALE PARTICIPANT: And I explained to him

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1 what --

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: I hope that is waged --

4 MALE PARTICIPANT: There's a couple of  
5 other items that (inaudible) down from Eric said that  
6 they're specifically interested in.

7 MALE PARTICIPANT: Right.

8 MALE PARTICIPANT: But I think we need to  
9 be interested in the process for several days now. We  
10 need to be interested in any advice or communications,  
11 or systems that NEI is running (inaudible) in Japan so  
12 we have cognizance of what they're doing. They've  
13 been putting --

14 FEMALE PARTICIPANT: They've been pushing  
15 daily, several times a day to all the --

16 MALE PARTICIPANT: Yes, all the members.

17 FEMALE PARTICIPANT: Yes. Now, I  
18 understand, but I --

19 MALE PARTICIPANT: This is also the  
20 second--

21 FEMALE PARTICIPANT: I get all three.

22 MALE PARTICIPANT: You're getting called  
23 into an A&S, because I get that, too.

24 FEMALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: But the NEI people, the

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1 NEI members are getting Scott Peterson (inaudible)  
2 that I watched while I was in Peru (inaudible) what  
3 was going on, so it was pretty clear to me that we  
4 needed to confide in with NEI, not to coordinate, but  
5 be aware of what -- we don't want to have two  
6 different --

7 MALE PARTICIPANT: Exactly. They're  
8 interested --

9 MALE PARTICIPANT: -- pieces of  
10 advice going on --

11 MALE PARTICIPANT: They're interested in  
12 supporting --

13 MALE PARTICIPANT: The pieces we need from  
14 them is that they would agree to let us know what  
15 advice they are providing, or have they been requested  
16 -- that's not Earl. That's why I go back to --

17 MALE PARTICIPANT: Go back to Inner City -  
18 -

19 MALE PARTICIPANT: Can you give me his  
20 phone -- do you have his phone number?

21 MALE PARTICIPANT: Yes, kind of ruffle  
22 through here.

23 MALE PARTICIPANT: It's better to -- is  
24 Ralph or --

25 FEMALE PARTICIPANT: NEI.

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1 MALE PARTICIPANT: Yes, I know that.

2 MALE PARTICIPANT: I got --

3 FEMALE PARTICIPANT: If he x-rays -- no,  
4 Ralph Anderson at NEI. Okay. He's like the Director  
5 or --

6 (Background conversations.)

7 MALE PARTICIPANT: That's what I would do.

8 MALE PARTICIPANT: I've got Marvin's  
9 number.

10 MALE PARTICIPANT: Yes.

11 MALE PARTICIPANT: I'll call Marvin.

12 FEMALE PARTICIPANT: (Inaudible) between  
13 Marvin and Ralph.

14 MALE PARTICIPANT: Yes. But I've got  
15 Marvin's number. I tell Marvin here --

16 MALE PARTICIPANT: He'll look into it.

17 MALE PARTICIPANT: Yes. And here's the  
18 deal. So, are you all right with me taking care of  
19 this?

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: Okay. A little  
22 uncomfortable about (inaudible). If something goes  
23 wrong, or somebody -- the only radiation (inaudible)  
24 injury that occurs in this entire event occurs by some  
25 (inaudible) applying one of our (inaudible). The

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MALE PARTICIPANT: Is that on our list?

12

(Background conversations.)

13

14

MALE PARTICIPANT: It's your decision to make.

15

(Background conversations.)

16

17

MALE PARTICIPANT: Given the fact that we don't have -- we have very approximate --

18

MALE PARTICIPANT: Disabled --

19

20

21

22

23

MALE PARTICIPANT: And if you're worried about the, like Mike says, I'm not tweaking this thing (inaudible) long screwdriver. And that's exactly what we will be doing. Unless we just say here's how we would --

24

MALE PARTICIPANT: Right.

25

(Background conversations.)

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1 MALE PARTICIPANT: They've got to give the  
2 best advice that they can.

3 MALE PARTICIPANT: Yes. It should be just  
4 -- (Background conversations.)

5 MALE PARTICIPANT: There to establish a  
6 relationship.

7 (Background conversations.)

8 MALE PARTICIPANT: PEPCO regulators. I  
9 think the President's call --

10 MALE PARTICIPANT: Yes, they didn't have  
11 the best position.

12 (Background conversations.)

13 FEMALE PARTICIPANT: The comment I made  
14 earlier today to the -- (inaudible) to justify the  
15 expansion to 50 miles yesterday morning at about 2:00  
16 in the morning was different than the two that we had  
17 at the press release. However, the ones that we had  
18 at the press release are still the best information  
19 until we have (inaudible) go there. Because the  
20 previous one was at 5 rem at 40 miles, so it seems  
21 (inaudible). If it's at 5 rem for (inaudible) at 40  
22 miles, and if ET felt it was getting worse, that's why  
23 the expansion to 50 was generated. So, then at 5:00  
24 they could be -- I think we're still --

25 MALE PARTICIPANT: Okay.

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1 (Background conversations.)

2 MALE PARTICIPANT: That would be helpful,  
3 because if NEI is looking for the background we're not  
4 going to find it in a press release.

5 MALE PARTICIPANT: Well, they have that.

6 MALE PARTICIPANT: Yes, but it's a summary  
7 of the --

8 MALE PARTICIPANT: They want to know what  
9 was behind --

10 (Background conversations.)

11 MALE PARTICIPANT: Are we protecting the -

12 -

13 MALE PARTICIPANT: Yes. NEI wants to know  
14 what's behind -- they want to know what's behind it,  
15 so that they can be --

16 MALE PARTICIPANT: Are we prepared to  
17 share the whole thing with them?

18 MALE PARTICIPANT: No.

19 FEMALE PARTICIPANT: If we share it with  
20 NEI, we need to share it with the world. Okay?  
21 They're a member of the public, as well, right?

22 MALE PARTICIPANT: Well, if they -- you  
23 know, there's a -- you have the discretion in the  
24 releases -- you are correct, that once you hand it to  
25 NEI, you have no basis to withhold it from anyone.

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1 But you do have the discretion to decide who you  
2 initially give it to.

3 FEMALE PARTICIPANT: We can explain it on  
4 the phone easily enough to get them understanding.  
5 It's very big when you read the beginning of it.

6 MALE PARTICIPANT: Okay. Well, we'll just  
7 rack that away for a while.

8 MALE PARTICIPANT: But there's a  
9 difference here.

10 MALE PARTICIPANT: I don't mind --

11 FEMALE PARTICIPANT: I understand --

12 MALE PARTICIPANT: Handing them over the  
13 details and stuff --

14 MALE PARTICIPANT: We're getting there.  
15 That's where it started. Is there a problem with  
16 handing it? Yes, there is. Okay. Are we willing to  
17 take them through the entire explanation?

18 FEMALE PARTICIPANT: Sure.

19 MALE PARTICIPANT: And they can sit there  
20 scribbling on the other end and recreate the document  
21 that we would have handed them anyhow. But we never  
22 handed them a document.

23 FEMALE PARTICIPANT: The short answer --

24 MALE PARTICIPANT: Done that before..

25 FEMALE PARTICIPANT: But the short answer

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1 to them is that the public doesn't know what  
2 percentage of core damage (inaudible). We did not on  
3 purpose put that in the press release, because it's a  
4 little alarming. I felt as the team director if we put  
5 in that it was hypothetical unit, you'll see it in the  
6 press. That's the best information.

7 MALE PARTICIPANT: Yes.

8 (Background conversations.)

9 MALE PARTICIPANT: Is that what TEPPCO is  
10 putting out now?

11 MALE PARTICIPANT: What somebody is  
12 putting out in the Japanese press.

13 MALE PARTICIPANT: But we don't know -- I  
14 guess we can go on the website. Right? NAPA.or.jap.

15 FEMALE PARTICIPANT: That's the English  
16 website. They've got some --

17 MALE PARTICIPANT: That's the network  
18 (inaudible) that we show.

19 MALE PARTICIPANT: Oh, it is.

20 MALE PARTICIPANT: Oh, that's just going  
21 to show --

22 FEMALE PARTICIPANT: Oh.

23 MALE PARTICIPANT: You know, we can get  
24 into it, the way the military sorts out this date and  
25 time confusion --

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1 MALE PARTICIPANT: Okay.

2 MALE PARTICIPANT: -- and these multiple  
3 times (inaudible). That would -- if we elected to use  
4 it not as the main, but as a parenthetical in anything  
5 where we have time, when we write time, that'll force  
6 our staff who's doing this to ask whoever is giving  
7 them the information do you mean today or tomorrow?  
8 The date time group starts -- the syntax is the date,  
9 like 17 -- right now it would be 17:14:33 Zulu  
10 (inaudible) March 11<sup>th</sup>. We all know that. March.11.  
11 That'll always give you the day, that'll give you the  
12 Zulu time, even though you would say at 10:34, picture  
13 a log, at 10:34 (17:14:34Z). This is true. That  
14 solves part -- that's how the military --

15 (Background conversations.)

16 MALE PARTICIPANT: I went to Zulu time  
17 yesterday because it got too confusing. People were  
18 coming in, they give you Eastern Time, and then  
19 there'd be Zulu --

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: -- and then there'd be  
22 Japan time. Oh, my God.

23 MALE PARTICIPANT: Right.

24 MALE PARTICIPANT: For a while we even had  
25 West Coast Time.

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1 (Background conversations.)

2 MALE PARTICIPANT: So you have a chance of  
3 getting the transition from Eastern Standard, they  
4 were down to Daylight Savings Time also.

5 FEMALE PARTICIPANT: Okay. I'd say this on  
6 the power --

7 MALE PARTICIPANT: I've got to call --

8 (Background conversations.)

9 FEMALE PARTICIPANT: Is that the -- oh,  
10 I'm sorry. Are you open?

11 MALE PARTICIPANT: Yes, we're open, but go  
12 ahead. Phil is listening in, too.

13 FEMALE PARTICIPANT: They're having  
14 difficulty getting the trucks on site. They're  
15 working, it's just not going to happen today.

16 MALE PARTICIPANT: Okay. So, we want to  
17 reflect that in our next situation report. Whatever  
18 we're able to establish in terms of when they have, or  
19 if they have --

20 (Background conversations.)

21 FEMALE PARTICIPANT: All right. Because  
22 we also reiterated that, the nature of the --

23 (Background conversations.)

24 MALE PARTICIPANT: Is he a technical  
25 person? He's working with --

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1 (Background conversations.)

2 MALE PARTICIPANT: Who's here from NRR, is  
3 it Robert?

4 (Background conversations.)

5 MALE PARTICIPANT: Yesterday, when I was  
6 on shift there was a question about how would you get  
7 a hole in the roof of Unit 2? Have we resolved that  
8 to your knowledge? Our team in Japan was asking for  
9 assistance and, obviously, the sensitivity is we've  
10 got a high rad environment, and (inaudible), so you'd  
11 have to do it in a non-explosive way. But to get  
12 water into the spent fuel pool in Unit 2, you'd have  
13 to have something shooting through. Right?

14 FEMALE PARTICIPANT: Saw that something --

15 MALE PARTICIPANT: So, we're still working  
16 on that, you think?

17 MALE PARTICIPANT: I was only --

18 MALE PARTICIPANT: I didn't get that in  
19 turnover that that was resolved. I think we need to  
20 change that around, because our team in Japan was  
21 asking. Now that their military is involved, that may  
22 have helped.

23 FEMALE PARTICIPANT: The other thing is  
24 just FYI (inaudible) water in the tank, and alignment  
25 of the priorities that we have.

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1 MALE PARTICIPANT: Okay.

2 FEMALE PARTICIPANT: Make sure so that we  
3 can (inaudible) provide the best itemization --

4 MALE PARTICIPANT: That the sheet of  
5 scenarios or strategies that comes up from time to  
6 time, do we know the origin of that? I haven't been  
7 listening in. Is that how they --

8 FEMALE PARTICIPANT: I don't, but what I  
9 asked (inaudible) team to do, based on the status when  
10 it went through, and so (inaudible) we have in here,  
11 the data we do have, make sure that's still consistent  
12 with what we know.

13 MALE PARTICIPANT: Okay. Or are we  
14 deviating from that a lot. And you heard the  
15 Chairman's directions that he was comfortable  
16 providing our advice to --

17 FEMALE PARTICIPANT: No, I didn't hear  
18 that.

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MALE PARTICIPANT: That's the other thing,  
you know, given countries you're setting --

MALE PARTICIPANT: Right.

MALE PARTICIPANT: Do we have any  
knowledge of anybody (inaudible) there?

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 MALE PARTICIPANT: Is that Mike?

8 MALE PARTICIPANT: Yes, Mike.

9 MALE PARTICIPANT: Mike, just to let you  
10 know, (inaudible). I want to find a slot where we're  
11 not interfering with your normal briefings and that  
12 sort of thing. We're hopefully trying to do it before  
13 he meets with Bill, which I think is at 2:00. Is  
14 there somewhere at lunch hour time, 12:30? Does that  
15 work for you?

16 MALE PARTICIPANT: Yes, that's fine.

17 MALE PARTICIPANT: Why don't we try 1:00  
18 then?

19 MALE PARTICIPANT: He's just looking for  
20 an update.

21 MALE PARTICIPANT: Yes, I mean he came  
22 over here a few days ago so, just to get a current  
23 status.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: If that changes, I'll

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1 get back to you.

2 MALE PARTICIPANT: And, obviously, you  
3 understand that since we're in the middle of some --

4 MALE PARTICIPANT: That's quite all right.  
5 Yes, he knows that.

6 MALE PARTICIPANT: Okay. I'm sure he does.  
7 Okay.

8 MALE PARTICIPANT: All right.

9 MALE PARTICIPANT: Thanks.

10 MALE PARTICIPANT: Sure.

11 MALE PARTICIPANT: Are you waiting for  
12 their call?

13 MALE PARTICIPANT: They're going to get  
14 the call through -- I've got a call (inaudible).

15 MALE PARTICIPANT: Yes. Go ahead.  
16 Charlie is talking about the Steering Committee. Yes,  
17 we'll deal with that later.

18 MALE PARTICIPANT: All right.

19 MALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: This is -- we're trying  
21 to warm up over there.

22 MALE PARTICIPANT: Going to get to 10  
23 degrees C. That's what they have. You know, the  
24 northern part of the island is like minus 3.

25 MALE PARTICIPANT: Right.

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1 MALE PARTICIPANT: People are living in  
2 shelters.

3 MALE PARTICIPANT: Yes, they (inaudible).

4 MALE PARTICIPANT: Not good.

5 MALE PARTICIPANT: I know.

6 MALE PARTICIPANT: I mean, that's --

7 MALE PARTICIPANT: Oh, yes. It would be  
8 hard enough if you just had to respond to the nuclear  
9 emergency.

10 MALE PARTICIPANT: Yes.

11 MALE PARTICIPANT: But your infrastructure  
12 is all devastated along the coastline.

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Are they still  
15 sheltering the --

16 MALE PARTICIPANT: Yes.

17 MALE PARTICIPANT: And then you get to the  
18 point where you run out of food, I believe.

19 MALE PARTICIPANT: Yes, food is not  
20 expected to be a problem.

21 MALE PARTICIPANT: Oh, is that right?

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: The shelters --

24 MALE PARTICIPANT: Yes. At least that's  
25 my understanding.

1 MALE PARTICIPANT: Probably the bigger  
2 problem is -- I mean (inaudible). You know, one time  
3 they were saying this range.

4 MALE PARTICIPANT: Twenty to thirty  
5 kilometers.

6 MALE PARTICIPANT: But at some point that  
7 doesn't become practical because I'm hearing loss of  
8 power --

9 MALE PARTICIPANT: Right. Enter a day --

10 MALE PARTICIPANT: Get out there.

11 MALE PARTICIPANT: Yes. Plus those things  
12 are protected.

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Is anybody still on the  
15 line?

16 MALE PARTICIPANT: Yes, I think Bill is  
17 listening in.

18 MALE PARTICIPANT: Oh, okay.

19 MALE PARTICIPANT: Is there anything --  
20 you were okay with my summary? I tried to give a high  
21 level --

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: -- not be that  
24 specific.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: I should call Steve.  
2 Does this phone work?

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: You got an update?

5 FEMALE PARTICIPANT: (Inaudible) update  
6 what they were doing yesterday, the (inaudible) are  
7 talking about the possibility of punching a hole in  
8 the Unit 2 reactor --

9 MALE PARTICIPANT: Did we get some ideas?

10 FEMALE PARTICIPANT: I think we did get  
11 some ideas, but I think at the end of the day that  
12 idea died in Japan in terms of they didn't want to go  
13 that route for the moment.

14 MALE PARTICIPANT: Because they don't have  
15 a problem right now with the Unit 2 spent fuel pool.

16 FEMALE PARTICIPANT: I guess.

17 MALE PARTICIPANT: Yes.

18 FEMALE PARTICIPANT: They do have a hole -  
19 -

20 MALE PARTICIPANT: Not like 3 and 4.

21 FEMALE PARTICIPANT: They have a hole in  
22 the side of the corrugated, the top part for venting -  
23 -

24 MALE PARTICIPANT: Yes, but it's not big  
25 enough.

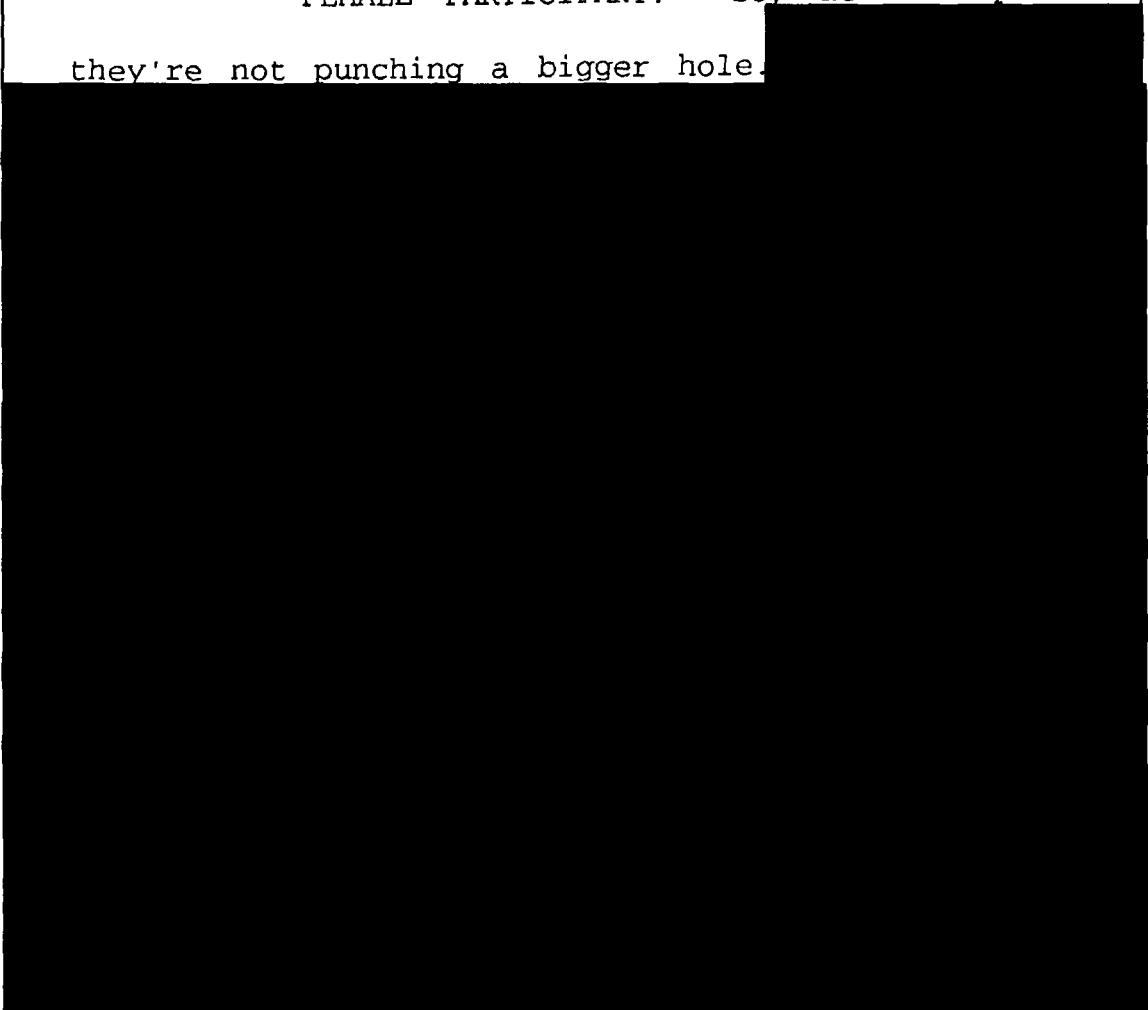
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1 FEMALE PARTICIPANT: -- but it's not  
2 (inaudible) for water.

3 MALE PARTICIPANT: Right.

4 FEMALE PARTICIPANT: So, at this point  
5 they're not punching a bigger hole.



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1 (CONFERENCE CALL INITIATED)

2 MIKE CASE: Hi, Howie, this is Mike Rober  
3 calling. Can you patch me through to Steve Burns,  
4 please? Thank you.

5 MALE PARTICIPANT: He's trying to reach  
6 him?

7 MIKE CASE: Yes. Hi. Yes. Oh, no, it  
8 doesn't warrant that. Mark or Trip around? Thank  
9 you.

10 Charlie, now is not a good time to -- did you see

11 [REDACTED]

12 CHARLIE: No, I need to see them, but I  
13 was just waiting for --

14 MIKE CASE: Waiting for the call.

15 CHARLIE: -- the break.

16 MIKE CASE: Hey, how are you? Good,  
17 thanks. Thanks for taking the call, Mark

18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 No, we're okay with our people. It's  
7 really more coordinating the federal government's  
8 view. Okay? Thank you. Bye-bye.

9 Hey, that one is done.

10 FEMALE PARTICIPANT: (Inaudible).

11 MALE PARTICIPANT: Really?

12 FEMALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: Well, do we know what's  
14 going on?

15 FEMALE PARTICIPANT: No, it's sort of --

16 MALE PARTICIPANT: Okay. Thank you.

17 FEMALE PARTICIPANT: And maybe some kind  
18 of (inaudible).

19 MALE PARTICIPANT: I hope not. You're  
20 aware of the problems we have with the (inaudible).

21 MALE PARTICIPANT: He cleared it  
22 (inaudible) country.

23 FEMALE PARTICIPANT: That's why  
24 (inaudible).

25 MALE PARTICIPANT: Oh, really?

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1 MALE PARTICIPANT: He's had information  
2 (inaudible).

3 MALE PARTICIPANT: Oh.

4 (Background conversations.)

5 MIKE CASE: Well, we'll read the press  
6 release.

7 MALE PARTICIPANT: Apparently, (inaudible)  
8 share it with (inaudible).

9 MIKE CASE: Have we seen it?

10 MALE PARTICIPANT: I haven't seen it.  
11 That wasn't --

12 MIKE CASE: I didn't get that internal.

13 MALE PARTICIPANT: Yes, I haven't.

14 MIKE CASE: Is she going to get that to  
15 you?

16 MALE PARTICIPANT: She got it in there,  
17 and she was going to use it to get (inaudible)  
18 country.

19 MIKE CASE: Yes, maybe we can get it.

20 MALE PARTICIPANT: Okay. Thanks. Ken said  
21 that Marty (inaudible) called last night (inaudible).

22 MIKE CASE: Maybe Sally, where's Sally?

23 So, today now looks like tomorrow.

24 MALE PARTICIPANT: For the restoration of  
25 power.

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1 MALE PARTICIPANT: I will (inaudible).

2 MIKE CASE: About getting a line in.

3 MALE PARTICIPANT: Maybe getting an  
4 electrical line.

5 MIKE CASE: Right.

6 MALE PARTICIPANT: Getting it, and  
7 connecting it, and getting it to operate --

8 MIKE CASE: Is an entirely different  
9 thing. And the Chairman made that very plain in the  
10 call.

11 MALE PARTICIPANT: He wanted --

12 MIKE CASE: Yes, he was aware of that.

13 MALE PARTICIPANT: Talked to us about  
14 that. We've been trying to explain (inaudible)  
15 plugging it in.

16 MIKE CASE: Yes. Look how dark it is.

17 MALE PARTICIPANT: Midnight.

18 MIKE CASE: You'd never know, there's all  
19 the neons on.

20 MALE PARTICIPANT: Yes, they'll probably  
21 get (inaudible) power.

22 FEMALE PARTICIPANT: Blackout --

23 MALE PARTICIPANT: Yes, it's dark --

24 MIKE CASE: They requested people to back  
25 off on their use of power.

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1 Do you have an update?

2 MALE PARTICIPANT: (Inaudible).

3 MIKE CASE: Okay.

4 MALE PARTICIPANT: Oh, that must be the

5 [REDACTED]

6 MIKE CASE: Yes, that's it.

7 MALE PARTICIPANT: It's gone.

8 FEMALE PARTICIPANT: (Inaudible) with me.

9 MALE PARTICIPANT: Plus be able to work  
10 (inaudible) hours outside --

11 FEMALE PARTICIPANT: Yes.

12 MALE PARTICIPANT: Marty said this last  
13 night.

14 FEMALE PARTICIPANT: Yes. And, obviously,  
15 I was tuning it up a bit because it's (inaudible) on  
16 it.

17 MIKE CASE: He's our expert? Oh, that's  
18 their request.

19 FEMALE PARTICIPANT: Basically, how did  
20 you get (inaudible).

21 MIKE CASE: Those projections have the  
22 assumptions included?

23 MALE PARTICIPANT: (Inaudible) up to 50  
24 miles.

25 FEMALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: One could think that at  
2 (inaudible) at any distance we can calculate to.

3 FEMALE PARTICIPANT: Yes. (Inaudible).

4 MIKE CASE: Should be technically  
5 proficient.

6 FEMALE PARTICIPANT: I don't think we --

7 MIKE CASE: Oh, well he ought to be able  
8 to get it from somebody who --

9 MALE PARTICIPANT: The question is  
10 (inaudible).

11 MIKE CASE: So, the (inaudible) right  
12 there.

13 MALE PARTICIPANT: (Inaudible).

14 MIKE CASE: We're going to find it? He  
15 had something you wanted to share with you.

16 MALE PARTICIPANT: A long time ago, or  
17 just when he was leaving --

18 MIKE CASE: When he was leaving for  
19 Florida.

20 MALE PARTICIPANT: He just wanted  
21 (inaudible) noon time as --

22 MIKE CASE: That's what he wanted.

23 FEMALE PARTICIPANT: Yes, because we don't  
24 have --

25 MIKE CASE: Same time group.

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1 FEMALE PARTICIPANT: What he wanted, they  
2 have our press release, and they want to know why.

3 MIKE CASE: They know why.

4 FEMALE PARTICIPANT: How did he get there  
5 is what --

6 MIKE CASE: Trying to see what additional  
7 information we can get. And they (inaudible) clear  
8 indication (inaudible).

9 MALE PARTICIPANT: Our  
10 recommendation (inaudible).

11 MIKE CASE: Oh.

12 FEMALE PARTICIPANT: Right. Oh, no, no.  
13 They know that.

14 MIKE CASE: Right. Do we have an answer  
15 to that question?

16 MALE PARTICIPANT: We're still working it,  
17 but I didn't see anything (inaudible) better than what  
18 we've already --

19 MIKE CASE: I haven't seen the [REDACTED]  
20 Perhaps I should go back and look at that.

21 MALE PARTICIPANT: Talking about moving  
22 the stuff back because (inaudible) that we had it in  
23 one place.

24 MIKE CASE: Okay.

25 MALE PARTICIPANT: And then we go back,

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1 take a look at it.

2 MIKE CASE: Okay.

3 MALE PARTICIPANT: He had worked out the  
4 number of people in here --

5 MIKE CASE: Yes. Try to stack their  
6 (inaudible).

7 MALE PARTICIPANT: Sure.

8 MIKE CASE: Okay. I'm surprised you  
9 haven't been able to get a hold of --

10 MALE PARTICIPANT: (Inaudible).

11 MIKE CASE: Oh, okay. He's meeting with  
12 the Secretary of Energy.

13 MALE PARTICIPANT: So, they got the  
14 message to have him call? And if you want to go look  
15 at the (inaudible).

16 MIKE CASE: Brian is verifying that  
17 they're there.

18 MALE PARTICIPANT: Okay. And then you can  
19 come get me if he calls.

20 MIKE CASE: Yes.

21 MALE PARTICIPANT: Okay.

22 FEMALE PARTICIPANT: Oh, yes, yes.  
23 (Inaudible) because I had nothing (inaudible). I have  
24 no (inaudible).

25 MIKE CASE: So, the best we can tell

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1 there's been no adverse reaction to our --

2 FEMALE PARTICIPANT: (Inaudible).

3 MIKE CASE: There's been an adverse  
4 reaction from (inaudible).

5 FEMALE PARTICIPANT: Yes.

6 MIKE CASE: But not us.

7 FEMALE PARTICIPANT: Not only repeating  
8 (inaudible).

9 MIKE CASE: Really? And that's in the  
10 press releases?

11 FEMALE PARTICIPANT: It is, I believe  
12 (inaudible).

13 MIKE CASE: Really?

14 MALE PARTICIPANT: (Inaudible) and what  
15 the media hears.

16 FEMALE PARTICIPANT: I doubt it. It's a  
17 press release, and I imagine it was much more than  
18 picking up the (inaudible).

19 MIKE CASE: All right. Anything you'd  
20 care to say?

21 MALE PARTICIPANT: No, I got intermittent  
22 (inaudible).

23 FEMALE PARTICIPANT: He provided this late  
24 update on all the status of (inaudible) in Japan.

25 MIKE CASE: How are you?

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1 MALE PARTICIPANT: Good, Mike.  
2 MIKE CASE: Good. Thanks for your help.  
3 MALE PARTICIPANT: (Inaudible).  
4 MIKE CASE: Try and get me the Reg Guide.  
5 MALE PARTICIPANT: Yes.  
6 MIKE CASE: Brian should be going down to  
7 our meeting with Ryan at 1:00, so --  
8 MALE PARTICIPANT: Brian?  
9 MIKE CASE: Sherron. So, if --  
10 MALE PARTICIPANT: On what topic?  
11 MIKE CASE: He's going down because the  
12 Secretary called together a group of experts for the  
13 National Labs throughout DOE, and Ryan thought we  
14 should participate in that. And that's to do kind of  
15 brainstorming on what other things could be done to  
16 help --  
17 MALE PARTICIPANT: (Inaudible) we need to  
18 participate in that.  
19 FEMALE PARTICIPANT: Oh, yes.  
20 MIKE CASE: They're reinventing the wheel.  
21 MALE PARTICIPANT: Absolutely. Otherwise  
22 we would (inaudible).  
23 MIKE CASE: Right. Quiet gentleman, very  
24 considerate.  
25 FEMALE PARTICIPANT: It's technical, which

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1 is great --

2 MIKE CASE: Yes.

3 FEMALE PARTICIPANT: -- because have to be  
4 (inaudible). I may not be (inaudible).

5 MIKE CASE: Right.

6 MALE PARTICIPANT: (Inaudible).

7 MIKE CASE: You want to go back and look  
8 at --

9 MALE PARTICIPANT: Yes, their -- we were  
10 looking at putting it up on the screen, but --

11 (Background conversations.)

12 MIKE CASE: We had that call with OGC.

13 FEMALE PARTICIPANT: Yes.

14 MIKE CASE: We had the verification of  
15 what today means in terms of restoration of AC power.

16 FEMALE PARTICIPANT: (Inaudible).

17 MIKE CASE: Yes, (inaudible) has that.  
18 They've already briefed back that today is tomorrow,  
19 they think, but it's now tomorrow. But they're going  
20 to update the situation reports to reflect the  
21 status.

22 FEMALE PARTICIPANT: Yes, I think what the  
23 status is, how (inaudible).

24 MIKE CASE: Okay.

25 FEMALE PARTICIPANT: But I think

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1 (inaudible) was what day --

2 MIKE CASE: Right. Okay. So, where do I  
3 go? I go to the --

4 MALE PARTICIPANT: No, the (inaudible).

5 MIKE CASE: Oh, because on here it's Table  
6 --

7 MALE PARTICIPANT: If you want this table,  
8 I'll give it out. I have --

9 MIKE CASE: Yes, why don't we do that.

10 MALE PARTICIPANT: Okay.

11 (Background conversations.)

12 FEMALE PARTICIPANT: That was a long, hard  
13 night. A new sheet of paper. (Inaudible).

14 MALE PARTICIPANT: Thank you. (Inaudible).

15 FEMALE PARTICIPANT: Okay.

16 (Background conversations.)

17 FEMALE PARTICIPANT: By the gate.

18 MALE PARTICIPANT: I need (inaudible).

19 (Background conversations.)

20 MALE PARTICIPANT: (Inaudible). It could  
21 just be projection --

22 (Background conversations.)

23 MALE PARTICIPANT: Sure. I'm just trying  
24 to see if anything might have changed since I left at  
25 11:30 last night.

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1 MALE PARTICIPANT: Okay.

2 MALE PARTICIPANT: Are we still standing  
3 by (inaudible).

4 MALE PARTICIPANT: We have not changed  
5 anything at this time.

6 MALE PARTICIPANT: Okay. (Inaudible),  
7 apparently, the IR (inaudible).

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: We had a press briefing  
10 and they say that (inaudible) helicopter dump borated  
11 water in the pool (inaudible).

12 MALE PARTICIPANT: Did you see this on TV?  
13 (Inaudible) going in the pool.

14 MALE PARTICIPANT: And that they confirmed  
15 that there's water in the pool, but I just want to  
16 make sure that we're still standing by, because I know  
17 that Chuck (inaudible).

18 MALE PARTICIPANT: Yes.

19 MALE PARTICIPANT: They say that they  
20 showed the film to Chuck, and that (inaudible).

21 MALE PARTICIPANT: I don't know that. I  
22 wasn't in on any of the conversations, and I'll have  
23 to (inaudible).

24 MIKE CASE: Charles, do you know?

25 MALE PARTICIPANT: He didn't know it.

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1 MIKE CASE: Okay.

2 MALE PARTICIPANT: Can you listen to the  
3 bridge.

4 FEMALE PARTICIPANT: Just real quick, 



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13 MALE PARTICIPANT: So, we're getting  
14 (inaudible).

15 (Simultaneous speech.)

16 FEMALE PARTICIPANT: This is until 1:00.

17 MALE PARTICIPANT: They (inaudible), so we  
18 don't have the shape.

19 MALE PARTICIPANT: What you don't have is  
20 you don't have data on the direction of the plume.

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: So, I want you to  
23 verify.

24 FEMALE PARTICIPANT: This is (inaudible).  
25 They have a whole bunch of sodium iodine inside the

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1 helicopter. They need to fly at a fairly low level  
2 around the land and he keeps on (inaudible).

3 MALE PARTICIPANT: Right. (Inaudible)  
4 picture up a little bit closer to --

5 MALE PARTICIPANT: So, you'll be able to  
6 do some of it from that.

7 FEMALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: That's a bigger  
10 picture.

11 FEMALE PARTICIPANT: But it's basically  
12 (inaudible).

13 MIKE CASE: It's 1,000 feet above ground  
14 level.

15 FEMALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: Yes.

17 MALE PARTICIPANT: Okay. It is 1,000, but  
18 it's not in the 10s or 100s of MR per hour at 1,000,  
19 which is good news. Right?

20 MIKE CASE: Yes.

21 FEMALE PARTICIPANT: Very good news.

22 MIKE CASE: How do you (inaudible) these  
23 are the readings at the detector. How do you  
24 translate that to what's on the ground?

25 FEMALE PARTICIPANT: We're going to take

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1 this now, and then we're going to project a dose on  
2 the ground.

3 MIKE CASE: On the ground, okay.

4 FEMALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: (Inaudible).

6 MIKE CASE: Yes, yes.

7 FEMALE PARTICIPANT: So, we'll show you  
8 the other picture, but it'll be up there.

9 MIKE CASE: Okay, great. Thank you.

10 (Background conversations.)

11 MALE PARTICIPANT: Mike?

12 MIKE CASE: Yes?, Got a new day --

13 MALE PARTICIPANT: Oh, sorry. I just  
14 wanted to check, are the current releases about the  
15 Unit 4 pool, still think it's empty?

16

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MIKE CASE: Yes, I wouldn't go there.  
Don't go beyond what the Chairman said in the hearing.

MALE PARTICIPANT: Right.

MIKE CASE: But you see -- oh, we don't  
have our status sheet up any more.

MALE PARTICIPANT: No.

MIKE CASE: Can we not have the chronology  
up there?

5

1 FEMALE PARTICIPANT: Yes, you can  
2 (inaudible).

3 MIKE CASE: So, can we put the plant  
4 status where the ET chronology is?

5 FEMALE PARTICIPANT: The green one?

6 FEMALE PARTICIPANT: 1B.

7 MIKE CASE: Yes.

8 FEMALE PARTICIPANT: Okay.

9 FEMALE PARTICIPANT: That's fine. I don't  
10 know how much code (inaudible).

11 MIKE CASE: Thank you. So, we're all set  
12 with the task tracker?

13 FEMALE PARTICIPANT: Yes (inaudible) to a  
14 solution and (inaudible).

15 MIKE CASE: Just assign both teams.

16 FEMALE PARTICIPANT: Yes. So, like  
17 (inaudible).

18 (Background conversations.)

19 MIKE CASE: Yes, liaison team is fine.  
20 David can tell me (inaudible).

21 MALE PARTICIPANT: Chairman Jaczko is  
22 coming on the Daiichi conference.

23 MIKE CASE: Okay.  
24  
25

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1 (CONFERENCE CALL INITIATED)

2 CHAIRMAN JACZKO: Hey, Mike.

3 MIKE CASE: Hi, Chairman.

4 CHAIRMAN JACZKO: How are you?

5 MIKE CASE: Okay. How are you doing?

6 CHAIRMAN JACZKO: Good. How are we doing  
7 with ideas for mitigating strategies?

8 MIKE CASE: We have four different lists  
9 of mitigating strategies --

10 CHAIRMAN JACZKO: Good.

11 MIKE CASE: -- that our team is working  
12 here.

13 CHAIRMAN JACZKO: Okay. Are we pulling  
14 from the B5B stuff?

15 MIKE CASE: Yes.

16 CHAIRMAN JACZKO: Yes, okay. Good.

17 MIKE CASE: We have already had  
18 discussions about that with our team in Japan, but  
19 we're --

20 CHAIRMAN JACZKO: Okay.

21 MIKE CASE: -- continuing to refine those  
22 in terms of what equipment needs there would be to  
23 support those.

24 CHAIRMAN JACZKO: Okay, good. So, that's  
25 well in progress?

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1 MIKE CASE: Yes.

2 CHAIRMAN JACZKO: Have we transmitted that  
3 to Chuck already, or is that ready to get transmitted?

4 MIKE CASE: I think we've transmitted  
5 early information, and we're continuing to work it, so  
6 we're refining the information --

7 CHAIRMAN JACZKO: Okay. Good.

8 MIKE CASE: -- we're sharing. We did --

9 CHAIRMAN JACZKO: Are we --

10 MIKE CASE: Go ahead.

11 CHAIRMAN JACZKO: Are we talking to GE or  
12 industry folks for ideas, as well?

13 MIKE CASE: Yes.

14 CHAIRMAN JACZKO: Yes. Okay. Good. Go  
15 ahead, keep up the good work. In every meeting I've  
16 been in, I just want to reiterate to all of you the  
17 accolades for the NRC have been consistent and --

18 MIKE CASE: Oh, great.

19 CHAIRMAN JACZKO: Keep up the good work,  
20 and let's keep doing what we're doing, which is good  
21 timely decision making with good information. And I  
22 think as Bill mentioned yesterday, our focus probably  
23 now more than anything is on our -- focusing on how we  
24 can do mitigation. To some extent, the monitoring is  
25 not -- of the situation is not as important any more.

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1 I think it's the mitigation strategies. And Chuck  
2 seems like he's had a breakthrough, so we want to take  
3 advantage of that and get them good, accurate,  
4 reliable information as soon as we can.

5 MIKE CASE: Absolutely.

6 CHAIRMAN JACZKO: Okay, good. Well,  
7 thanks. I'm heading over to the White House. I'm  
8 going to do a -- I'll likely do the White House press  
9 briefing, so maybe I'll call you back in 15 minutes if  
10 we can do -- if you can just do a run through for me  
11 of updated information and anything you think I need  
12 to know before that briefing.

13 MIKE CASE: Okay, will do.

14 CHAIRMAN JACZKO: Okay. Thanks, everybody.

15 MIKE CASE: Thank you.

16 MALE PARTICIPANT: Do we have the  
17 (inaudible) to confirm that we've -- or what our next  
18 time is that we're going to be sharing the mitigating  
19 strategies (inaudible) Japan?

20 MIKE CASE: I know it's midnight over  
21 there now.

22 MALE PARTICIPANT: I think we've been  
23 sharing all along, but (inaudible).

24 MALE PARTICIPANT: And it's all  
25 (inaudible) nitrogen.

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(Background conversations.)

MIKE CASE: But that would cause other problems.

MALE PARTICIPANT: Yes, yes.

MIKE CASE: Bill and I, and the science guy talked about that the other night, about well, you can't just inject liquid nitrogen.

MALE PARTICIPANT: Yes.

MIKE CASE: So, maybe that's where this guy got the idea.

MALE PARTICIPANT: Yes.

FEMALE PARTICIPANT: (Inaudible) for 15, 20 minutes --

MIKE CASE: Okay.

FEMALE PARTICIPANT: She'll come in and brief you on where they --

MIKE CASE: Okay. Great. Fifteen minutes. Well, do you have an update in like 10 minutes?

MALE PARTICIPANT: To give to the Chairman?

MIKE CASE: Yes. Thanks. Cindy was saying that these are altitude measurements.

FEMALE PARTICIPANT: (Inaudible).

MIKE CASE: Okay.

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1 MALE PARTICIPANT: Yes, that's my  
2 understanding.

3 (Background conversations.)

4 MIKE CASE: At 1,000 feet.

5 FEMALE PARTICIPANT: At 1,000 feet. I  
6 mean, we're not looking at hundreds of --

7 MIKE CASE: Yes.

8 FEMALE PARTICIPANT: (Inaudible) per hour.  
9 We're going to see, once we estimate what it is on the  
10 ground, if it matches (inaudible).

11 MIKE CASE: Right, right.

12 FEMALE PARTICIPANT: And we (inaudible).

13 MIKE CASE: Yes, so you're at like four  
14 miles and you're still way above that. Have they  
15 separated out what's in the air versus what's on the  
16 ground here, aggregate?

17 FEMALE PARTICIPANT: It's just aggregate.  
18 Just what they're detecting (inaudible).

19 MIKE CASE: Okay. So, there could be  
20 releases from the stack that they're seeing.

21 FEMALE PARTICIPANT: Could be, yes.

22 MIKE CASE: So, that may not be on the  
23 ground. That may --

24 FEMALE PARTICIPANT: Exactly. What's  
25 blowing (inaudible) right now.

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1 MIKE CASE: 800 feet out --

2 FEMALE PARTICIPANT: Well, we don't have  
3 the data yet. I remember over the weekend  
4 (inaudible). So, even though it's floating this way  
5 now, but that was (inaudible).

6 MIKE CASE: Yes.

7 FEMALE PARTICIPANT: So, that's something  
8 (inaudible).

9 MIKE CASE: Great. And these little upside  
10 down triangles, are these their monitoring points away  
11 from the plant? Do we know? Or are these just --

12 FEMALE PARTICIPANT: I don't know.

13 MIKE CASE: Can you fix it? Maybe the  
14 challenge is --

15 FEMALE PARTICIPANT: Yes.

16 MIKE CASE: Thank you.

17 (Background conversations.)

18 MIKE CASE: They're models, they're not  
19 accurate.

20 FEMALE PARTICIPANT: Oh.

21 [REDACTED] 5  
22 [REDACTED]  
23 Charlie, this is a blow up of the data so you can  
24 better see the elevated areas.

25 CHARLIE: It's the serpentine pattern.

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1 MIKE CASE: Right. So, these (inaudible)  
2 at 1,000 feet, so you have to calculate well, what  
3 would it be at ground level? And then they're compare  
4 this with the data they have (inaudible). Some of  
5 these elevated levels may be the release is ongoing  
6 (inaudible).

7 MALE PARTICIPANT: True. But you're  
8 getting 20 to 30 --

9 MIKE CASE: Milli-R.

10 MALE PARTICIPANT: -- milli-R. It's real  
11 data.

12 MIKE CASE: Right. At 1,000 feet, that's  
13 1,000 feet. But that could be a plume at 800 feet  
14 that you're seeing.

15 MALE PARTICIPANT: Yes.

16 MIKE CASE: The detectors are seeing  
17 whatever is below it.

18 MALE PARTICIPANT: It could be the shine  
19 from the plume.

20 MIKE CASE: Could be the shine from the  
21 plume.

22 MALE PARTICIPANT: True.

23 MIKE CASE: Yes, so I don't know how  
24 they're going to work that out.

25 MALE PARTICIPANT: With the helicopter, so

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1 (inaudible). They could put the helicopter maybe in a  
2 (inaudible).

3 MIKE CASE: I think they attached the pods  
4 to helos, but then (inaudible) they had in --

5 MALE PARTICIPANT: I don't know.

6 MALE PARTICIPANT: See, that's what I was  
7 trying to determine (inaudible).

8 MIKE CASE: If they didn't fly --

9 MALE PARTICIPANT: I know they've got a  
10 pod they could put on.

11 MIKE CASE: Yes.

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20 MIKE CASE: The Chairman is calling back  
21 at 11:30. He's going to be in the White House press  
22 conference, so he wants the latest and greatest.

23 FEMALE PARTICIPANT: All right. This is -  
24 - here's -- shall I run through this with you?

25 MIKE CASE: At a high level.

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1 FEMALE PARTICIPANT: Okay.

2 MIKE CASE: We've shared this with our  
3 team and Japan. Not yet?

4 FEMALE PARTICIPANT: I want -- we have a  
5 logistics guy going through. Before we send it to  
6 Japan, I want to (inaudible) get feedback from the  
7 (inaudible). There are four plans under development,  
8 A, B, C, and D.

9 MIKE CASE: Do you have an extra set of  
10 that?

11 FEMALE PARTICIPANT: Plan A, which has  
12 sort of been. --

13 MIKE CASE: So, A is what came in  
14 yesterday that our folks have scoped out.

15 FEMALE PARTICIPANT: Yes.

16 MIKE CASE: And we drew the pretty  
17 picture.

18 FEMALE PARTICIPANT: Yes.

19 MIKE CASE: Right. Okay.

20 FEMALE PARTICIPANT: That's Plan A.

21 MIKE CASE: Okay.

22 FEMALE PARTICIPANT: Okay. We're scoping  
23 that out for the equipment associated with that  
24 (inaudible) supply us. And this is the logistics of  
25 executing Plan A at high level. I mean (inaudible) to

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1 it, but --

2 MIKE CASE: So, we're assuming this  
3 equipment is not available in Japan.

4 FEMALE PARTICIPANT: It may be available  
5 in Japan, but we wanted to (inaudible).

6 MIKE CASE: Yes.

7 FEMALE PARTICIPANT: This is all available  
8 in (inaudible) right now.

9 MIKE CASE: It is?

10 FEMALE PARTICIPANT: All available.  
11 They're putting it together and getting it ready.

12 MIKE CASE: Okay.

13 FEMALE PARTICIPANT: So, if you go down to  
14 the next step, until we've had our contact with our  
15 team in Japan and we have the individual who would be  
16 the one who coordinates if we -- three modes of  
17 transport that's (inaudible), the airlift at Becco  
18 (inaudible) by U.S. military, or we can work with the  
19 Australian military. They can airlift it, and  
20 (inaudible).

21 At that point, we want to use our MP  
22 contact to coordinate the receipt of that, and then we  
23 can move it to a staging area that actually  
24 (inaudible) for which we can provide training and  
25 assembly, because this really will need to be a kit

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1 (inaudible). And then they can also at that point  
2 train the Japanese personnel on how to put them  
3 together.

4 On the top here, we're aligning it with  
5 the priorities that we have here in terms of this is  
6 for (inaudible). This is aligned for the new  
7 priorities 1, 2, 3, and 4.

8 MIKE CASE: Okay.

9 FEMALE PARTICIPANT: That brings you down  
10 to training Japanese personnel over the timing  
11 (inaudible) put it together, and execute so they can  
12 have a good idea of how many kits they would need  
13 (inaudible).

14 Also, possible fielding and vehicles that  
15 would be needed to bring the equipment in, and how to  
16 provide (inaudible).

17 There was question, MIKE CASE,  
18 (inaudible) and send robotic equipment if you had  
19 to operate that. I'm not sure that --

20 MIKE CASE: We need their manual.

21 FEMALE PARTICIPANT: Right. So, that's  
22 why we're going to send the details out to INPO, GE,  
23 Bechtel (inaudible).

24 MIKE CASE: Okay.

25 FEMALE PARTICIPANT: Okay?

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1 MIKE CASE: Thanks. Any other strategies,  
2 B, C, and D?

3 FEMALE PARTICIPANT: Well, this is --  
4 again, we heard yesterday that there are three fire  
5 boats that would be available. And this is  
6 (inaudible) pumps.

7 MIKE CASE: Yes.

8 FEMALE PARTICIPANT: So, you're actually  
9 just using a fire pump (inaudible), and then you hook  
10 that up and you follow the same system. But there's -  
11 - we have those.

12 Do you want ideas that came out of our  
13 discussion with industry? The other one was they have  
14 the high-rise concrete booms.

15 MIKE CASE: Booms, yes. Can you pump  
16 water with those kind of --

17 FEMALE PARTICIPANT: They seem to say yes,  
18 you would use water as opposed to concrete. They need  
19 to flesh that one out. And then there's a (inaudible)  
20 pumper that up in Oconee. I'm having communications  
21 either yesterday's day shift or last night Oconee  
22 using the B5B spray pumpers, they packed them up on  
23 (inaudible). They're like well, what do we do with  
24 them?

25 We're starting to back off on that because

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1 we have pumps on the site right now they're not using.

2 MIKE CASE: Yes. Getting a lot of pump  
3 systems.

4 FEMALE PARTICIPANT: I'm hesitant just how  
5 everybody --

6 MIKE CASE: You don't want to degrade the  
7 plant's capability either.

8 MALE PARTICIPANT: Right.

9 FEMALE PARTICIPANT: Right. Well, but  
10 they have --

11 MIKE CASE: They have extra pumps?

12 FEMALE PARTICIPANT: Because this  
13 particular action I think is consistent across the  
14 U.S. industry, so --

15 MIKE CASE: Right.

16 FEMALE PARTICIPANT: -- their system  
17 (inaudible).

18 MIKE CASE: Okay. So, if they needed  
19 them, they'd get them --

20 FEMALE PARTICIPANT: Their time. And I  
21 think they standardize (inaudible).

22 MIKE CASE: Okay.

23 FEMALE PARTICIPANT: Okay. I'm hesitant,  
24 almost like yes, I don't want to take it off, but we  
25 need, and I think as the Chairman talked about this

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1 morning, we're trying to do a better job of having one  
2 call with the industry people, and packing up and  
3 sending things out. (Inaudible) U.S. --

4 MIKE CASE: Okay.

5 FEMALE PARTICIPANT: -- through Vandenberg  
6 right now.

7 MIKE CASE: Leaving in two hours. That  
8 was one of the things that I (inaudible), the 20,000  
9 pounds (inaudible).

10 FEMALE PARTICIPANT: At Diablo?

11 MIKE CASE: Diablo.

12 FEMALE PARTICIPANT: Yes. We just got a  
13 (inaudible) Vandenberg (inaudible).

14 MIKE CASE: Leaving from McCoy Air Force  
15 Base at 1600 Zulu, so in 30 minutes. That's heading  
16 to Washington.

17 FEMALE PARTICIPANT: (Inaudible).

18 MIKE CASE: It should arrive at 3:19 at  
19 900 -- I'm sure. (Inaudible) their response. You  
20 probably want to stay here so when the Chairman calls  
21 back (inaudible) questions. He was asking are we  
22 (inaudible).

23 FEMALE PARTICIPANT: And we have another  
24 call with -- I mean, we needed the folks to put pen to  
25 paper.

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1 MIKE CASE: Yes.

2 FEMALE PARTICIPANT: So, we have another  
3 call, we have INPO, GE (inaudible) naval reactors  
4 (inaudible). And they will all have seen this  
5 (inaudible) and gotten back to us on open items.

6 For example, one of the things that we  
7 needed to add to this cost proposal, Unit A  
8 (inaudible). That's an action (inaudible).

9 MIKE CASE: So, the expectation for  
10 Bechtel is that AID would pay.

11 FEMALE PARTICIPANT: Yes, I mean, they're  
12 (inaudible). And, of course USAID (inaudible) you  
13 can't do anything until (inaudible).

14 MIKE CASE: So, they'd be using high  
15 pressure fire hoses.

16 FEMALE PARTICIPANT: Yes.

17 MIKE CASE: Those are the non-collapsible  
18 hoses. And there's enough length there.

19 FEMALE PARTICIPANT: (Inaudible).

20 MIKE CASE: Okay.

21 FEMALE PARTICIPANT: And the key with this  
22 activity is making sure we get -- we have two requests  
23 out there, one with INPO, and one with for Bechtel.  
24 We're going to train and provide (inaudible)  
25 instructions.

1 MIKE CASE: Operate. You've got to train  
2 the operators to operate.

3 FEMALE PARTICIPANT: Right.

4 MIKE CASE: These are not their  
5 (inaudible).

6 FEMALE PARTICIPANT: That stuff is going  
7 to be -- I think if we decide to go (inaudible).

8 MIKE CASE: Would this be simplified if  
9 they do not need the diesel, they have -- they do  
10 restore AC power to the site?

11 MALE PARTICIPANT: (Inaudible).

12 (Simultaneous speech.)

13 MIKE CASE: We're not looking at that yet.  
14 We're not counting on that AC power.

15 FEMALE PARTICIPANT: You know, well  
16 (inaudible) --

17 MIKE CASE: Coming in at -- I hope that it  
18 --

19 MALE PARTICIPANT: (Inaudible).

20 FEMALE PARTICIPANT: I think the idea  
21 behind this, all the independent (inaudible) water in  
22 the pool. They come (inaudible) train them.

23 MIKE CASE: I understand the concept.

24 (Simultaneous speech.)

25 MIKE CASE: We don't even know that they

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1 want this.

2 FEMALE PARTICIPANT: This is going to be  
3 available. We're going to try and, obviously, collect  
4 it out, but get it out to them. The target is  
5 communicating with (inaudible).

6 MIKE CASE: Do you know what time they're  
7 meeting?

8 FEMALE PARTICIPANT: At 9:00 a.m. their  
9 time, so that's what, 8:00 p.m. our time?

10 MIKE CASE: Yes.

11 FEMALE PARTICIPANT: Yes, so that's our --

12 MIKE CASE: So, that's in eight and a half  
13 hours.

14 FEMALE PARTICIPANT: Yes.

15 MIKE CASE: Okay.

16 FEMALE PARTICIPANT: At 1:00 we'll have  
17 this fleshed out as well as we can, and linking the  
18 recommendation (inaudible).

19 MALE PARTICIPANT: I mean, we can use the  
20 safeguards (inaudible).

21 MIKE CASE: You know if DOE is having a  
22 meeting this afternoon downtown to do some out-of-the-  
23 box thinking on what could be done? So, Brian Sherron  
24 is going to go down to that.

25 FEMALE PARTICIPANT: Okay.

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1 MIKE CASE: So, my guess is when that's  
2 over he may have ideas that he'll want to come back  
3 and convey to the group (inaudible) back and just see.

4 I think it's the intelligent (inaudible) having this  
5 meeting. Yes, they may come up with something. We  
6 applaud them. So, he'll go forward, give them what  
7 we've got and if something comes to fruition through  
8 that channel, that will be another (inaudible) that we  
9 --

10 FEMALE PARTICIPANT: I'm really excited  
11 (inaudible) concrete boom.

12 MIKE CASE: Yes.

13 FEMALE PARTICIPANT: It just seems like  
14 (inaudible).

15 MALE PARTICIPANT: That company would  
16 install (inaudible).

17 FEMALE PARTICIPANT: I've never seen one  
18 before.

19 MIKE CASE: I have. I don't think it has  
20 the extent of the arm that you may need.

21 MALE PARTICIPANT: No, but (inaudible).

22 MIKE CASE: Right.

23 MALE PARTICIPANT: It has to go up  
24 (inaudible) and pour down.

25 MIKE CASE: Go to about 18 stories, I

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1 think. Because above that, like you see a building,  
2 our building next door (inaudible).

3 MALE PARTICIPANT: Eighteen stories is  
4 plenty of height.

5 MIKE CASE: Yes.

6 FEMALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: But (inaudible) this  
8 would be --

9 MIKE CASE: Yes. And then as the pumping  
10 mechanism (inaudible) how you pump concrete different  
11 than how you pump water.

12 FEMALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: That's what I was going  
14 to say. If you look at the RAD waste (inaudible) to  
15 the plant, all these (inaudible) from the stuff.

16 MIKE CASE: Yes.

17 MALE PARTICIPANT: An auger isn't going to  
18 move water very well.

19 MIKE CASE: Right. Well, the Egyptians  
20 got (inaudible).

21 FEMALE PARTICIPANT: That was this  
22 morning's brainstorm from Bechtel.

23 MIKE CASE: And we ought not turn off  
24 (inaudible). We don't know (inaudible). I think we  
25 will need to be sensitive to, as we provide this

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1 information, our people in Tokyo must be sensitive.  
2 You know, an overload (inaudible). If we give them 27  
3 options, every one of them have their own logistical  
4 challenge.

5 MALE PARTICIPANT: Did we come to a  
6 conclusion about do we provide recommendations  
7 (inaudible)?

8 MIKE CASE: We will provide  
9 recommendations.

10 MALE PARTICIPANT: So, that is --

11 MIKE CASE: It's up to them to decide what  
12 they're going to do with it.

13 MALE PARTICIPANT: Right.

14 MIKE CASE: The Chairman is very  
15 supportive of providing those. I understand the  
16 possible downside. I also understand the dire nature  
17 of the situation.

18 MALE PARTICIPANT: Yes.

19 MIKE CASE: So, the Chairman is going to  
20 the White House for the press conference.

21 MALE PARTICIPANT: Do we need to provide  
22 him the (inaudible).

23 MIKE CASE: As well as an update, so he's  
24 going to call back in.

25 MALE PARTICIPANT: Are we going to use

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1 (inaudible).

2 MIKE CASE: I don't think we changed.  
3 Right?

4 MALE PARTICIPANT: I don't know if we had  
5 the (inaudible).

6 MIKE CASE: Well, that's what we briefed  
7 him on this morning.

8 MALE PARTICIPANT: Okay.

9 MIKE CASE: Right, nothing changed with  
10 respect to my status?

11 FEMALE PARTICIPANT: Not that I know of,  
12 no. And we tried to -- when we did our staff call  
13 earlier, we just wanted to make sure that (inaudible).

14 MALE PARTICIPANT: I like it because  
15 you've got where you got the information from on  
16 there.

17 MIKE CASE: Right.

18 MALE PARTICIPANT: And I think that's  
19 useful even to be at that table.

20 MIKE CASE: What he said in our previous  
21 call was that, you know, consider this our priority,  
22 working with our Japanese counterparts, equip them  
23 with ideas that they can implement (inaudible) action  
24 to accomplish the cooling of the pool. He said the  
25 reactors are doing okay, you know. They're getting by

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1 with the seawater injection through the core spreader,  
2 the core spray header.

3 MALE PARTICIPANT: Basically depressurize  
4 (inaudible) cool it.

5 MIKE CASE: Pump the water and cool.  
6 Since we haven't had any indication of clogging --

7 MALE PARTICIPANT: I think that was what  
8 was giving them problems earlier on, but we haven't  
9 heard that (inaudible).

10 MIKE CASE: Really? Maybe they backed off  
11 on (inaudible).

12 (Background conversations.)

13 MIKE CASE: 'Do you have --

14 FEMALE PARTICIPANT: I (inaudible) with  
15 the DMRV.

16 MALE PARTICIPANT: Yes, Rich will be  
17 calling.

18 MIKE CASE: Yes? So, they're planning for  
19 the call, and full model (inaudible) alignment there.

20 MALE PARTICIPANT: Oh, good.

21 MIKE CASE: At Unit 1 (inaudible). They  
22 are asking the decision makers (inaudible).

23 MALE PARTICIPANT: When is that call?

24 MIKE CASE: We don't know yet.

25 MALE PARTICIPANT: Okay. Do we know on

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1 the (inaudible).

2 MALE PARTICIPANT: Probably (inaudible)  
3 5:00.

4 MIKE CASE: Well, that will affect where  
5 we're going from.

6 MALE PARTICIPANT: Yes. But, I mean, the  
7 guys (inaudible).

8 MIKE CASE: Yes.

9 (Background conversations.)

10 MALE PARTICIPANT: The wind wrapped around  
11 the other day, but (inaudible) to look like there's a  
12 plume --

13 MALE PARTICIPANT: Yes.

14 MIKE CASE: You know, what you have along  
15 the coast is you have coastal sea breezes that spread,  
16 so while the prevailing winds may be out to sea,  
17 you're still going to have some fluctuation along the  
18 coast. And that's what you're going to be seeing  
19 there. That could be a (inaudible). They said the  
20 strong winds this morning have died down, which is  
21 when they flew the --

22 MALE PARTICIPANT: (Inaudible).

23 MIKE CASE: Okay.

24 MALE PARTICIPANT: They were asking if we  
25 got results from the aerial monitoring.

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1 MIKE CASE: DOE (inaudible). Keep people  
2 in their lane.

3 MALE PARTICIPANT: Yes, totally.

4 MIKE CASE: The Chairman is going to be at  
5 the press briefing in the White House. I think that  
6 goes on at noon.

7 MALE PARTICIPANT: (Inaudible).

8 MIKE CASE: In the hearing, in this  
9 meeting? That was (inaudible).

10 FEMALE PARTICIPANT: But it was  
11 (inaudible).

12 MALE PARTICIPANT: But I had Mike call --

13 MIKE CASE: See if everything --

14 MALE PARTICIPANT: Well, no. I mean, he's  
15 going to (inaudible) try to strongly encourage him to  
16 keep us more timely.

17 MIKE CASE: Okay.

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1 MIKE CASE: Jane said that they're  
2 arranging the [REDACTED] [REDACTED] call, coordinating the  
3 modeling results and sharing that information.

4 MALE PARTICIPANT: Yes, that's important.

5 MIKE CASE: I would expect you to do that  
6 call.

7 MALE PARTICIPANT: Okay.

8 MIKE CASE: So, whenever that call  
9 happens. We're trying to figure out is it on a mobile  
10 line, is it on a --

11 MALE PARTICIPANT: I mean, if we get it  
12 off (inaudible) then I can get it in there.

13 MIKE CASE: Yes.

14 MALE PARTICIPANT: But I may want to bring  
15 Cindy with me so she can hear the (inaudible).  
16 Because the details, the devil is in the details, and  
17 it's getting the communication.

18 MIKE CASE: You're going to have to --

19 MALE PARTICIPANT: Yes, maybe I should  
20 just get on it myself.

21 MIKE CASE: That might be a good idea.

22 MALE PARTICIPANT: Okay.

23 FEMALE PARTICIPANT: If anything happens  
24 (inaudible) EPA colleagues, if you talk to them  
25 (inaudible) with them. It's not public, but it's able

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1 to be shared through our bilateral arrangement with  
2 the (inaudible) experts money (inaudible). She said  
3 she thought it was fine, and it was consistent with  
4 the direction she and Marty thought things were moving  
5 (inaudible) before we move. But we're going to  
6 (inaudible).

7 MIKE CASE: Okay.

8 MALE PARTICIPANT: Which data are we  
9 talking about?

10 MIKE CASE: The source term data.

11 MALE PARTICIPANT: So, which --

12 MIKE CASE: 33 percent (inaudible).

13 FEMALE PARTICIPANT: Yes, and they're  
14 basing their's on (inaudible). And the Prime  
15 Minister's office is trying to figure out (inaudible)  
16 are they seeing the same thing or different things  
17 (inaudible).

18 MALE PARTICIPANT: Sir, Chuck Casto is  
19 coming up on the ET conference.

20 MIKE CASE: Okay.

21 MALE PARTICIPANT: It's clear that these  
22 are our assumptions, and we don't have a lot of  
23 detailed information (inaudible) 33 percent is the  
24 right number, or 40 percent is the right number.

25 FEMALE PARTICIPANT: And they know that,

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1 but they're seeing numbers based on something  
2 different so they're getting confused.

3 MALE PARTICIPANT: Okay.  
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1 (CONFERENCE CALL INITIATED)

2 MIKE CASE: Chuck, are you there?

3 MR. CASTO: Yes, I am. I'd like to give  
4 you an update if you're -- if I can interrupt, or wait  
5 until you're ready.

6 MIKE CASE: No, we're ready. Just be  
7 aware the Chairman is going to be calling in briefly.  
8 He's going to be doing the noon White House press  
9 conference today.

10 MR. CASTO: Okay. I've got a little  
11 something to share with him anyhow, so --

12 MIKE CASE: Okay. So, that will be the  
13 priority when he comes on.

14 MR. CASTO: I understand. I understand  
15 that.

16 MIKE CASE: It's quarter to one, your  
17 time. Right?

18 MR. CASTO: Yes.

19 MIKE CASE: So, what are you doing up?

20 MR. CASTO: I'm okay. I'm getting like a  
21 two-hour nap every once in a while. But the trouble  
22 is, if you wake up, you're awake. You're going to come  
23 back in. You can't like go back over and go to sleep.

24 MIKE CASE: Yes.

25 MR. CASTO: Your mind darts, you know,

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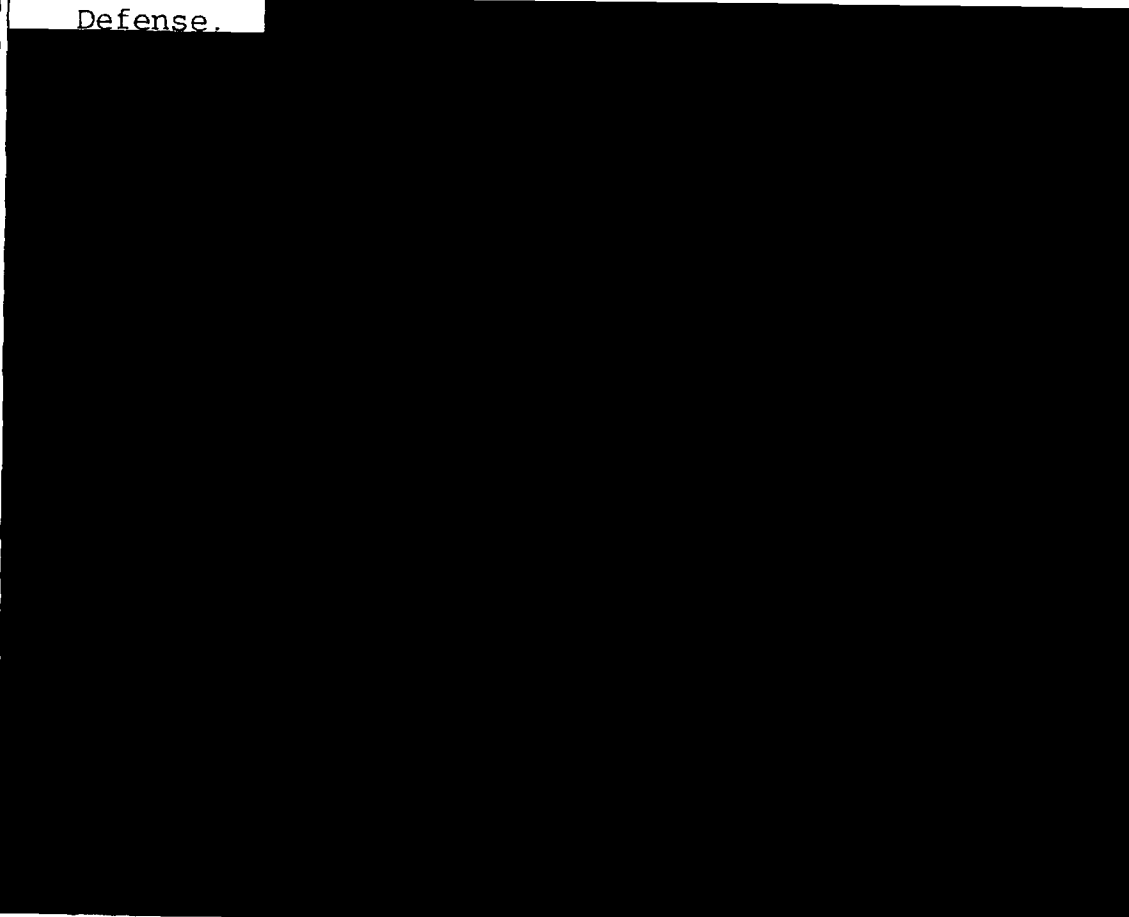
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1 going a thousand miles an hour so you can't get any  
2 rest.


3 MIKE CASE: You need to take care of  
4 yourself, too.

5 MR. CASTO: Anyhow -- thank you. Anyhow,  
6 we had a good -- several, three probably good meetings  
7 with MOD today, the last few hours, the Ministry of  
8 Defense.



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21 MIKE CASE: Oh.

22 MR. CASTO: 



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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED] So, that's a

5 challenge that we're working on with MOD and others.  
6 Not an urgent problem right now, but will be somewhere  
7 down the road.

8 MALE PARTICIPANT: Chuck, are they  
9 showing, or experiencing, or expecting problems with  
10 cooling of spent fuel pool number 1?

11 MR. CASTO: Yes, I think that's right.

12 MALE PARTICIPANT: So, even though we may  
13 not see (inaudible) imagery that doesn't mean that  
14 it's in okay shape.

15 MR. CASTO: Right. There's no power,  
16 there's no spent fuel pool cooling, so there's  
17 problems there. We just don't exactly know what it  
18 is. Whatever it is, it's contained because it's cask,  
19 you know, giant cask I guess. So, we really don't  
20 know the condition, but it's -- we don't know what  
21 contribution to the dose rates that that's providing.  
22 We really don't know what's going on underneath that  
23 concrete cap on Unit 1 spent fuel pool.

24 MALE PARTICIPANT: Are they doing anything  
25 now to add water?

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TEPPCO, and I don't want to get distracted  
here. I'll get to you on TEPPCO, but that's their  
game plan.

MALE PARTICIPANT: Okay.

MR. CASTO: Open up the demin water line.

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1

1 Unit 4 spent fuel structurally looks like  
2 it's sound, or it's at least there on structure, but  
3 we can't -- I think they finally have concluded that  
4 there's probably no water in it. There's no steam,  
5 and they understand the physics of that, no steam, no  
6 water. So, I think we're -- hopefully, we've over  
7 that issue, but it still looms out there somewhere.  
8 But, honestly, I'm moving beyond -- I'm moving past  
9 that issue.

10 The helicopter operations just did not  
11 work, we know that. [REDACTED]

12 [REDACTED]  
13 [REDACTED] Nor did the riot gun they picked up -- I  
14 think they did it twice. They got 10R or something  
15 like that total dose for a couple, like two minutes,  
16 so that --

17 MALE PARTICIPANT: Oh, the riot guns, yes.  
18 Okay.

19 MR. CASTO: The riot cannon.

20 MALE PARTICIPANT: Right.  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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So, we're still moving forward with the cooling water systems. That's going to take some time. All the equipment is in Australia. The logistics people have it. They can move it to the site, and we're telling them to move it.

(Simultaneous speech.)

MR. CASTO: What's that?

MIKE CASE: Ed Lyons has briefed me on what we're planning on that. So, it sounds like you've got a plan, if they want to use that.

MR. CASTO: Who briefed you on that, Mike?

5

1 MIKE CASE: Far F.

2 LAURA: Hi, Chuck. This is Laura Dews.

3 Yes, I talked to Tim Cole before he went home and we  
4 also know, I guess (inaudible) counterpart, so we're  
5 developing a more detailed logistical plan on that.  
6 We're going to pass --

7 MR. CASTO: Yes, Rick is here with me now.

8 Basically, the real rub is, first we had a burden to  
9 getting over -- I'm going to give you the background.

10 You guys got time for this?

11 MIKE CASE: Yes, we're fine.

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25 I think yesterday we were able to break

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1 that down, or today I guess it was. Whatever,  
2 whatever day this is.

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12 And they

13 immediately called us back to get a working group  
14 together. And we've had people embedded there all  
15 day, and getting a working group between DART, US  
16 Forces Japan, and MOD. And that is -- we're very much  
17 working out.

18 They were very appreciative, [REDACTED]

19 [REDACTED] [REDACTED] [REDACTED] It taught them a lot.  
20 Our suggestions and recommendations, they've been very  
21 enthusiastic about those. So, I think we've got a  
22 very good relationship with MOD.

23 And it's, ultimately, going to come down  
24 to -- and this is -- I'm just going to be frank here.  
25 It's ultimately going to come down to an issue with

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1 TEPPCO accepting the cooling water systems.

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So, TEPPCO wants the fire truck

strategy, but as they found out with the riot gun,

that's just not going to work. You've got to use

industrial equipment, like Nora, and Rick, and Tim are

working on.

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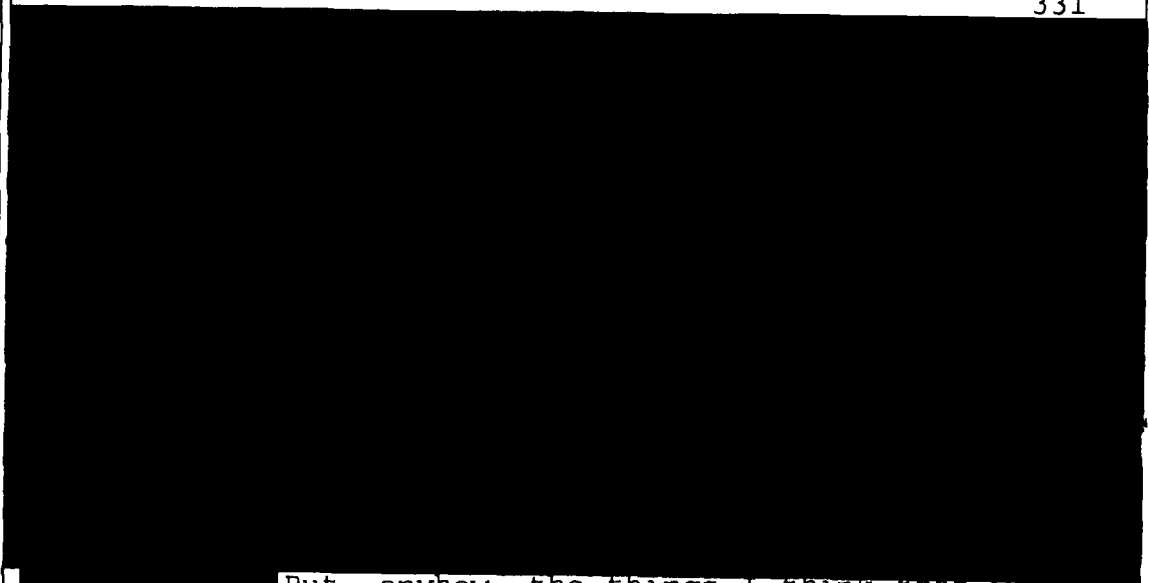
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But, anyhow, the things I think that we --

a couple of things that we have need for, and it's in the research area.

There was some work -- I don't know -- I thought I heard Brian in there earlier, I don't know if he's there, or Cathy, or somebody.

MIKE CASE: Yes.

BRIAN: I'm here.

MR. CASTO: Okay.

BRIAN: Sorry, wrong Brian.

MR. CASTO: They had done some research on B5B on air oxidation in a BWR.

MIKE CASE: Yes.

MR. CASTO: You know, we might -- I don't know if we're looking at that, or break that out and see if we can get anything out of that research on B5B air oxidation.

MIKE CASE: I think --

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1 MR. CASTO: See if there's any insights in  
2 there.

3 MIKE CASE: They also briefed the reactor  
4 safety team on that research.

5 MALE PARTICIPANT: Okay.

6 MIKE CASE: Is that what you're referring  
7 to, the work that (inaudible) was involved in?

8 MALE PARTICIPANT: That's right.

9 MR. CASTO: Yes, I don't know who did it,  
10 but we just know that that's out there, and don't  
11 know if it shows us any -- illuminates anything for  
12 us.

13 MIKE CASE: Okay. Well, we'll reach back  
14 and get that.

15 MR. CASTO: Okay. Then, the other thing  
16 we need from Cathy and them is Zirc fires. You know,  
17 putting water on a Zirc fire, what would that look  
18 like? We need to know what would [REDACTED] [REDACTED] be  
19 looking for to tell whether there's a Zirc fire? I  
20 mean, that's basically -- let me just get down to the  
21 bottom line.

22 MIKE CASE: Okay.

23 MR. CASTO: [REDACTED] in the morning, if  
24 they can get water up there somehow, what would we be  
25 looking at to tell the difference between steam when

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1 the water gets on there, and Zirc fire?

2 Now, we probably could have dose  
3 consequences of the Zirc fire and not of the steam. I  
4 don't know. I'm not sophisticated enough to know that.

5 MIKE CASE: Okay.

6 MR. CASTO: But what we need to know is  
7 when we eventually put water on the spent fuel pools,  
8 are we making matters worse with Zirc fires, or what  
9 do we need to look for?

10 And, perhaps -- I know dolomite and dry  
11 chemical on extinguishing Zirc fires, but I'm not sure  
12 whether that's right. I think my understanding is you  
13 could put a Zirc fire out with dolomite or dry  
14 chemicals.

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MIKE CASE: Right.

MR. CASTO: On Unit 4, I forgot one item.

On Unit 4 spent fuel pool, [REDACTED], and you guys have probably seen it, but I think we may have some other [REDACTED], but either the refueling floor crane is over top of the pool, and it's obstructing some of the [REDACTED], or there's debris on top of that pool. We're not sure, but that will cause some problems, eventually, if we try to spray water in there. That's going to probably cause some problems, too. There's some obstruction on that pool.

So, I've talked a lot. Let me see, I think that's everything -- that's about whatever, six hours of meetings and effort condensed down to a few minutes of briefing.

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1 MIKE CASE: Wow. Well, we appreciate  
2 that. So, you're looking for us to go back through  
3 the air oxidation in a BWR, the research to see what  
4 insights we can glean from that, and what we can pump  
5 out to you there in Japan?

6 MR. CASTO: Right.

7 MIKE CASE: And, also what would [REDACTED]  
8 [REDACTED] or whatever look for to give us an indication of  
9 whether we're looking at steam, or Zirc fire, or  
10 something else.

11 MR. CASTO: Right.

12 MIKE CASE: Distinguish one from another,  
13 and then go through that as what are you going to do  
14 if you do have a Zirc fire, do you continue to add  
15 water, or do you go with solid material like dolomite.

16 MR. CASTO: Right, or boron, or whatever.

17 You know, what else would we put on it?  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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But it's interesting that, you know--

MIKE CASE: Understand. Anything else we  
can do to help?

MR. CASTO: No, that's great.

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1 MIKE CASE: Are you getting some shut eye?

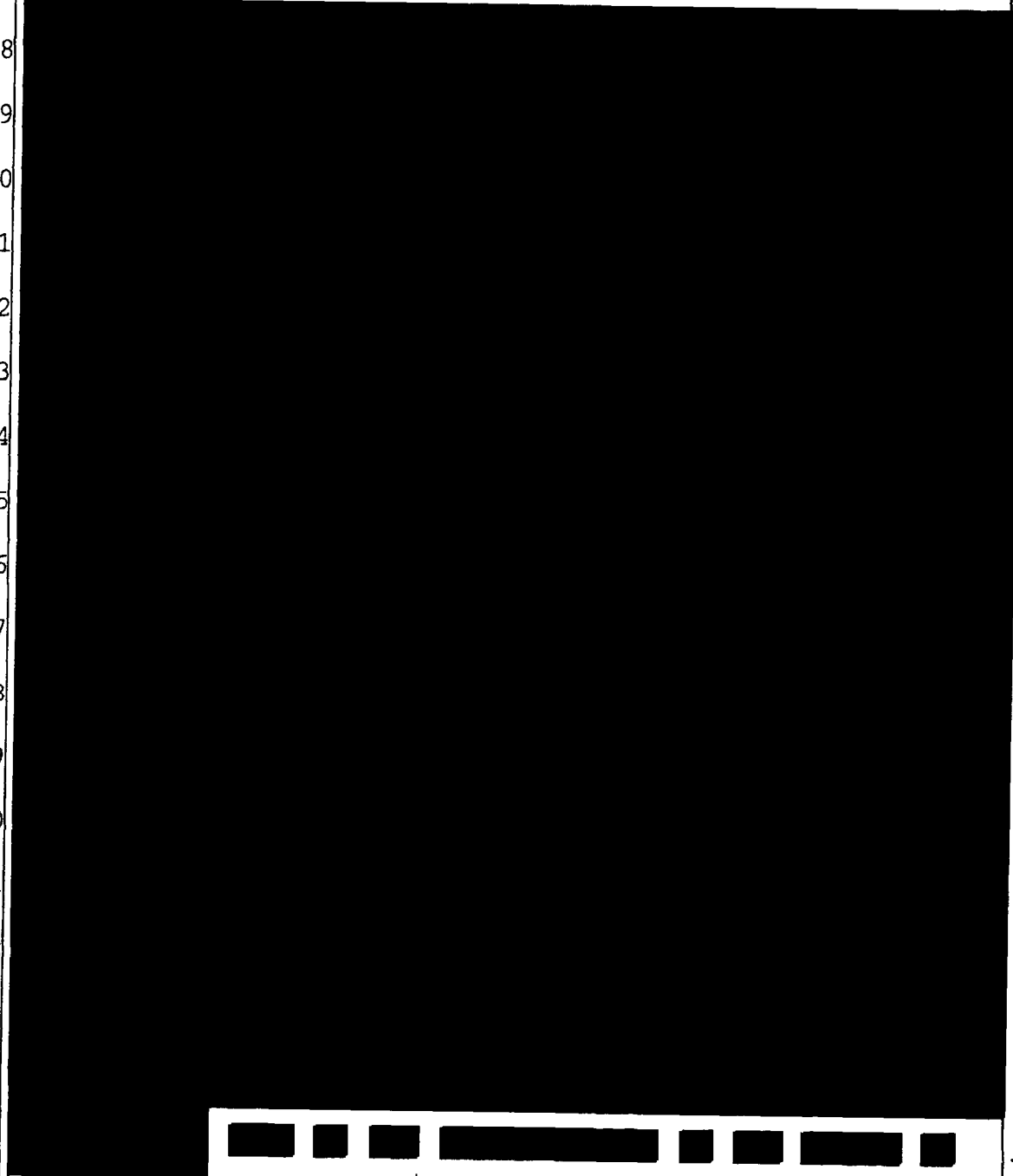
2 MR. CASTO: Oh, yes. We're all getting  
3 plenty of sleep.

4 MIKE CASE: Oh, come on, Chuck.

5 MR. CASTO: No, actually, I'm doing okay.

6 I get a couple of hours every -- I think twice now

7 I've gotten a couple of hours, so I'm in good shape.



25

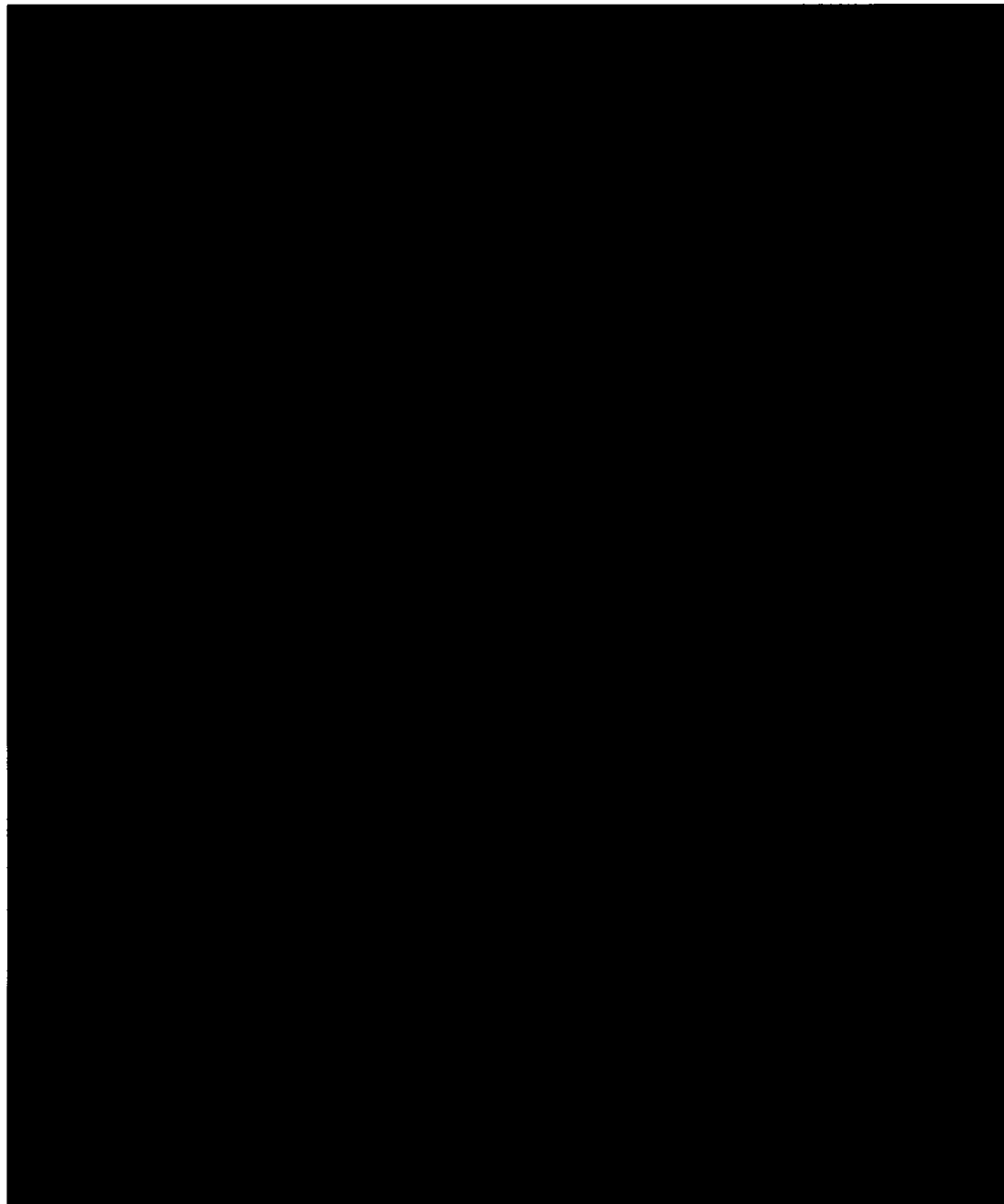
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LAURA: So, is there anything that we should be doing? I have -- I'm finalizing, or trying to work with the industry, INPO, Bechtel, GE, DOE, Naval Reactors, and we have a 1:00 call to sort of help you at 5:00 tomorrow. I know Jim mentioned you guys had a 9:00 a.m. your time meeting again to talk about the strategies.

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1 In terms of dolomite, or any Zirc fire  
2 type fighting chemicals, is it available in country?  
3 Should we be also thinking about that, or is it just  
4 they haven't staged it yet?

5 MR. CASTO: I don't know the answer to any  
6 of those questions. What I would suggest is that -- I  
7 don't want to get -- I'm not close enough to it from  
8 my position to know what to tell you to do. I know  
9 that that's a question that we have about how to  
10 extinguish a Zirc fire. What's the best material, if  
11 we start one somehow. So, the best thing for us to do  
12 is to keep Tim -- Tim is the one that needs the --  
13 when he gets some crew rest and gets back and all the  
14 logistic people get that. Rick is working on it, too,  
15 I think? Aren't you? Yes. Rick is working on it,  
16 too, so I don't want to add the dolomite thing yet  
17 until Tim and the guys come up with that conclusion.  
18 Does that makes sense?

19 MIKE CASE: Dolomite should be readily  
20 available in country, because --

21 MR. CASTO: Yes, it should be.

22 MIKE CASE: It's a common chemical  
23 feedstock, so --

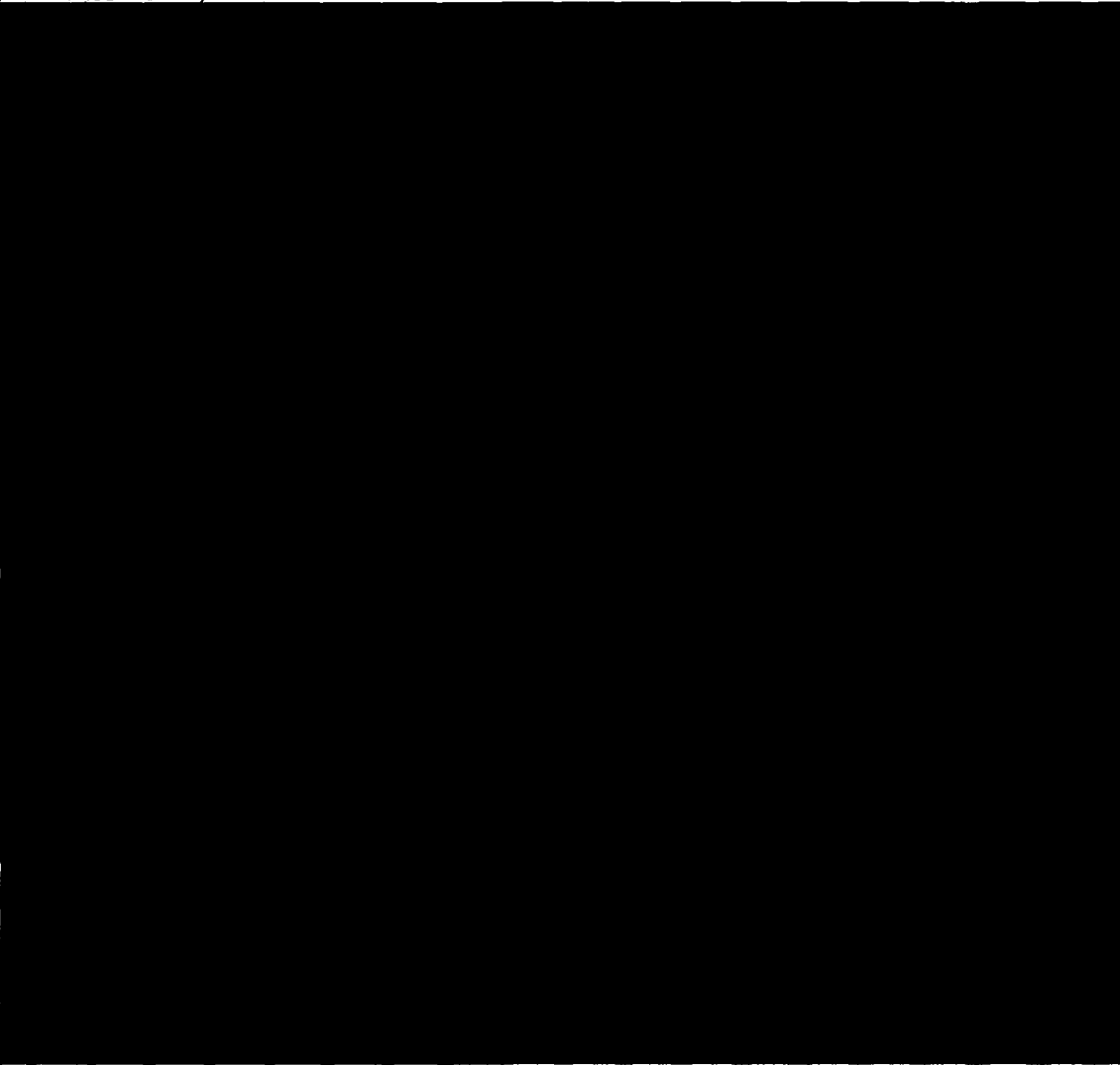
24 MR. CASTO: Yes, we shouldn't have to fly  
25 dolomite in from Australia.

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1 MIKE CASE: Are we flying boron in from  
2 Diablo, you know, the 20,000 pounds will be flown in,  
3 and they should arrive on the morning of the 19<sup>th</sup>.



18 MIKE CASE: Okay.

19 MR. CASTO: And let them -- whatever they  
20 want to do with it. " I

21 MIKE CASE: The U.S. is sending boron.

22 MR. CASTO: Yes. So, we should have --  
23 shouldn't be a problem with boron.

24 MIKE CASE: Well, that's good.

25 MR. CASTO: Okay.

5

1 MIKE CASE: Anything else you need from  
2 us?

3 RICK: I've got one thing.

4 MR. CASTO: Yes, Rick's got something.

5 MIKE CASE: Okay. Go, Rick.



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23 RICK: If you would send her -- if you  
24 would put her on our distribution for our updates,  
25 that would be great.

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1 MIKE CASE: Okay.

2 RICK: And put our group on that  
3 distribution. Right now, the updates are coming in  
4 via third and fourth parties, and we could use that  
5 information directly here.

6 MIKE CASE: Do we have a group named from  
7 the NRC?

8 RICK: Our group is Embassy Nuclear Energy  
9 Team. That's the contact list.

10 MIKE CASE: At NRC.gov? You've got to  
11 have an @ somewhere on that.

12 RICK: She said drag this to our Outlook  
13 contact list.

14 MIKE CASE: Yes. What it sounds like is  
15 if we email her our updates, she will distribute that  
16 internally to you.

17 RICK: That would be fine. As long as we  
18 get it directly, because right now I'm having to print  
19 bitmaps one at a time rather than just printing a  
20 whole Word document.

21 MIKE CASE: Oh, man, okay. All right.

22 MR. CASTO: Do we have -- how are we  
23 getting -- they're just -- it doesn't matter. We get  
24 the updates, right, off of some email?

25 RICK: We are not getting it

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1 directly. I've been getting them as forwarded from  
2 other people.

3 MR. CASTO: Somehow, you need to --

4 RICK: We need to get those direct.

5 MR. CASTO: Can you guys maybe create a  
6 WHO address for us, or something that you can send us  
7 our own updates? I mean, if you can send them to us  
8 individually as individual people, that's fine with  
9 us.

10 RICK: How about if I forward [REDACTED]  
11 email to you, and you drag that contact list into your  
12 contact list so that we can get on the distribution?

13 MIKE CASE: We can try.

14 MR. CASTO: Yes, whatever is simplest.  
15 Just please put us on the distribution list for our  
16 updates to come out, periodic updates.

17 MIKE CASE: Okay.

18 MALE PARTICIPANT: So, this going to be  
19 emailed to RC01?

20 FEMALE PARTICIPANT: Yes.

21 MIKE CASE: That will work.

22 RICK: Okay. I'm forwarding right now.

23 MIKE CASE: Okay.

24 MR. CASTO: Are we good?

25 MIKE CASE: We're good.

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1 MR. CASTO: Thank you all. You're doing  
2 great for us, and we appreciate it.

3 MIKE CASE: Well, thank you. The Chairman  
4 just commented when I talked to him moments ago that  
5 he was -- everywhere he goes in town, he gets nothing  
6 but praise for the NRC responders.

7 MR. CASTO: Well, you guys have done a  
8 great job. It's a team effort, we're all doing the  
9 best we can. You know, sometimes we don't get it  
10 exactly right, but we're all -- just like everybody  
11 there. It's a great agency, with great staff.  
12 Everybody has really turned to, it's incredible.

13 Okay. I'll call you back in an hour or so  
14 just to make a periodic touch-in.

15 MIKE CASE: All right.

16 MR. CASTO: Okay. Thanks, guys.

17 MIKE CASE: Thanks, Chuck. Thanks, Rick.

18 RICK: Yes.

19 MIKE CASE: So you got these?

20 FEMALE PARTICIPANT: Yes. The (inaudible)  
21 research items.

22 MIKE CASE: Call Justie Erolson, because I  
23 think he gave the briefing for the RSP, but with the  
24 turnover, people who are on shift now may not have had  
25 that.

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1 MALE PARTICIPANT: And is RST01 the one  
2 that's not distributing the updates, or is it really,  
3 we've got to tell the people --

4 FEMALE PARTICIPANT: Yes, but I'm just  
5 going to --

6 MALE PARTICIPANT: Get it to them.

7 FEMALE PARTICIPANT: Get it to them.

8 MIKE CASE: Work with the liaison.

9 FEMALE PARTICIPANT: Yes.

10 MIKE CASE: Hey, Laura?

11 LAURA: Yes?

12 MIKE CASE: On the [REDACTED] [REDACTED] I mean,  
13 we've got to talk to whoever our expert is on  
14 Zirconium fires.

15 LAURA: That's my ex --

16 MIKE CASE: Well --

17 LAURA: Yes, I'm going to -- the second  
18 one I'm going to get up to Cathy (inaudible).

19 MIKE CASE: Okay. And how to fight a Zirc  
20 fire.

21 LAURA: Well, yes, extinguish -- how to  
22 extinguish. And then, also, what are we looking for,  
23 if anything, to distinguish on the [REDACTED]  
24 [REDACTED] between a Zirc fire and --

25 MIKE CASE: Right. Look at chemical

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1 emissions, is it temperature, is it -- can we  
2 distinguish steam from zirconium fire?

3 MALE PARTICIPANT: The way the plume  
4 rises, I mean, anything that they could use to help  
5 them --

6 MIKE CASE: I think temperature would tell  
7 you a lot.

8 LAURA: Yes. Well, exactly.

9 MIKE CASE: It is 4,000 degrees, or is it  
10 --

11 LAURA: They can do that analysis  
12 (inaudible).

13 MIKE CASE: Yes, but if we had more  
14 remote, or more proximal detection we may be able to  
15 know right away if it's a zirconium --

16 MALE PARTICIPANT: I know it's a handheld  
17 device, but --

18 MIKE CASE: The firefighters can go in  
19 with the infrared detectors and say yes, that's hot.

20 MALE PARTICIPANT: But then they can just  
21 -- the colors are graded by --

22 (Simultaneous speech.)

23 FEMALE PARTICIPANT: I don't know what --  
24 why they're not doing it.

25 FEMALE PARTICIPANT: So, the other team, I

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1 guess this is -- we're going to have to figure this  
2 out a bit. All these plans, and all these strategies,  
3 if we've got five pumps sitting there now and they're  
4 not using them, we send four more trains of pumps or,  
5 you know.

6 MIKE CASE: Well, we won't send them  
7 unless we know that you're going to use them. Right?  
8 If he's going to pull the trigger on all the stuff.

9 MALE PARTICIPANT: We're just still in  
10 this banking -- get it from Australia?

11 MIKE CASE: Yes, it hasn't started moving.

12 FEMALE PARTICIPANT: I would think they  
13 may be starting to push it in a certain direction in  
14 Australia, but it hasn't moved.

15 MIKE CASE: Not being loaded on an  
16 airlift.

17 MALE PARTICIPANT: Okay. Who are we  
18 expecting to make that decision?

19 MIKE CASE: I think AID would pull the  
20 (inaudible).

21 FEMALE PARTICIPANT: Yes, here's the idea,  
22 and this -- is that we put together the three plans  
23 (inaudible). We have a 1:00 call to get alignment on  
24 that. What we're really trying to do, they have the  
25 point of contact on our team is going to call -- now

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1 it's like seven hours until he needs (inaudible)  
2 information.

3 MIKE CASE: Latest video of their  
4 reactors.

5 MALE PARTICIPANT: Get some water in that  
6 pool.

7 MIKE CASE: Chuck thinks there's no water  
8 in the pool, no steam coming out of it.

9 MALE PARTICIPANT: (Inaudible) cool.

10 MIKE CASE: No, the water is gone.

11 MALE PARTICIPANT: I wonder if this is a  
12 video that shows (inaudible).

13 MIKE CASE: Thanks, Laura.

14 LAURA: Thanks.

15 MIKE CASE: Yes, I don't see anything  
16 there.

17 (Background conversations.)

18 MIKE CASE: Focused on cool --

19 MALE PARTICIPANT: That's a greater  
20 danger.

21 MIKE CASE: But we're also focused on Unit  
22 3 spent fuel pool.

23 MALE PARTICIPANT: Absolutely.

24 MIKE CASE: I would say we're focused on  
25 the whole site. You know, what's important rises and

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1 falls based on the latest information. I just heard  
2 now that Unit 1, apparently the roof collapsed on top  
3 of the spent fuel pool.

4 MALE PARTICIPANT: Well, we're waiting for  
5 the Chairman to call.

6 MIKE CASE: (Inaudible) that Unit 1 had a  
7 problem.

8 MALE PARTICIPANT: But the back roof is  
9 (inaudible).

10 MIKE CASE: Unit 1, the roof collapsed  
11 onto the fuel pool, so we don't know what the status  
12 is of the fuel in the pool for Unit 1. So, that could  
13 be as dry as Unit 3 or 4.

14 MALE PARTICIPANT: Right. That was a  
15 deserving little update.

16 MIKE CASE: We couldn't get the White  
17 House press conference --

18 MALE PARTICIPANT: (Inaudible) on the  
19 line.

20 MIKE CASE: Thank you for that (inaudible)  
21 book. In the time we've been in here, I think they've  
22 sent out like four or five updates.

23 MALE PARTICIPANT: Okay, the other book,  
24 Mike?

25 MIKE CASE: Yes, that one.

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1 MALE PARTICIPANT: The status reports?

2 MIKE CASE: Yes.

3 MALE PARTICIPANT: The status reports, the  
4 one (inaudible) and this one.

5 MIKE CASE: Yes.

6 MALE PARTICIPANT: Somebody in a prior  
7 shift said they were going to do them in six and six,  
8 unless something changed.

9 MIKE CASE: Okay. All right. So, 06 and  
10 1800.

11 MALE PARTICIPANT: For what, Mike?

12 MIKE CASE: For the CIT rep.

13 MALE PARTICIPANT: CIT rep.

14 MIKE CASE: Do I have an update of the  
15 (inaudible).

16 MALE PARTICIPANT: We have the slides that  
17 they made for you for the --

18 MIKE CASE: Oh.

19 MALE PARTICIPANT: Tim, I thought he'd be  
20 speaking with you.

21 MIKE CASE: No (inaudible). Star zero,  
22 right?

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: Is this your's?

25 MIKE CASE: Oh, yes, I've got to go to

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1 that. You want to --

2 MALE PARTICIPANT: Let me, I'll take it.

3 MIKE CASE: Yes. We go in the back here.

4 (Background conversations.)

5 MIKE CASE: Very minor language changes  
6 necessary, or (inaudible).

7 MALE PARTICIPANT: Like I said, I don't  
8 know that it's --

9 MIKE CASE: That's okay. We'll see if he  
10 has (inaudible).

11 MALE PARTICIPANT: Hey, Doc, how are you  
12 doing?

13 MALE PARTICIPANT: Good. How are you  
14 doing?

15 MALE PARTICIPANT: Come to my office.

16 MALE PARTICIPANT: Huh?

17 MALE PARTICIPANT: Come to my office.

18 MALE PARTICIPANT: Good.

19 (Background conversations.)  
20  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chuck and Charlie here.

3 MIKE CASE: Yes. Hey, Charlie.

4 CHARLIE: Hi. Nora is with me. Here's  
5 the question. Laura has been working diligently with  
6 all the counterparts trying to get the assets  
7 together, and we're trying to get hardware.

8 The question becomes, I guess there's a  
9 lot of good stuff that's (inaudible).

10 LAURA: First, there's other things  
11 (inaudible).

12 CHARLIE: Here's the question. A  
13 recommendation from you on when would we want to have  
14 it go to Japan?

15 MALE PARTICIPANT: Yesterday.

16 CHARLIE: Okay. I mean, the were  
17 different views here concerning if they haven't  
18 accepted it, should we ship it, or should we put it  
19 there. And the recommendation was to hear right from  
20 you.

21 MALE PARTICIPANT: I think -- look, I  
22 mean, nobody knows what the ultimate might be. But

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23 CHUCK: Well, let me find out -- I hate to  
24 do this, but I'll have to wake Tim up and figure out  
25 what he -- but I know DART was in that meeting. Well,

15

1 let me try to get [REDACTED] Do you have a number for  
2 him?

3 FEMALE PARTICIPANT: I don't, but you know  
4 what, here's the thing. We have another call at 5:00  
5 our time, which is three hours, so 6:00 a.m. your  
6 time. So, instead of waking Tim up --

7 CHUCK: Yes, get on that call, because I  
8 know Tim is the man. And he -- what I remember him  
9 telling me was a couple of things. One, DART was in  
10 the call, in the meetings all evening, so I presume  
11 they're plugged in. The other thing is he told me  
12 that DOD, and then told them that this is easy. This  
13 is easy for them to do. Then we've just got to tell  
14 them to do it. And they do this all the time, and  
15 this isn't a big challenge for them. This is a minor  
16 challenge for them. So, those two factoids, I don't  
17 know how to put those together, but that's all I  
18 know. I wish I knew more, but --

19 FEMALE PARTICIPANT: I'm sensitive to  
20 waking up Tim, because I still think that Bechtel is  
21 still -- they're still going to need a few hours to  
22 stage at (inaudible), so I'd rather have Tim get a few  
23 more hours of sleep. And then at the 5:00 call, we'll  
24 have a USAID person on there, and we'll make sure that  
25 we're clear on we are going to move --

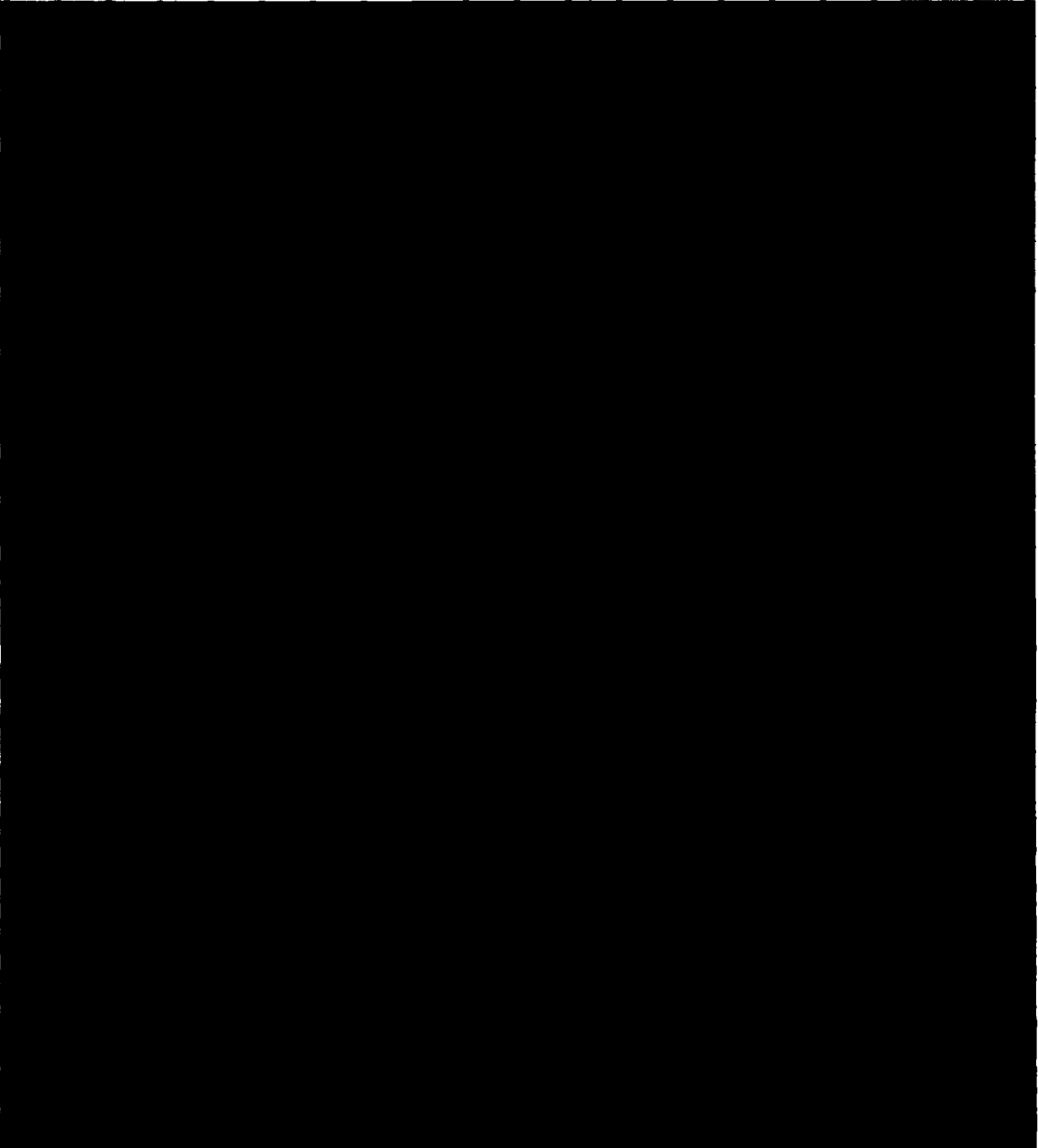
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1 CHUCK: Okay.

2 FEMALE PARTICIPANT: -- to stage all this  
3 equipment, at a minimum Yokoda as soon as possible.  
4 And then we still need to work on some logistics about  
5 personnel, and training, and other things.



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23 One of the things I need to talk with you  
24 about, Laura, is I don't know what the prognosis is of  
25 three days of that spent fuel -- those spent fuel

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1 pools sitting there empty. You know, is the building  
2 providing enough heat sync that the temperatures have  
3 risen, and they're going to stabilize, and they're not  
4 going to go up anymore, you know. Is that the  
5 situation where there's enough building -- the  
6 buildings are conducting the heat away, and they're  
7 just sitting there? I mean, it's likely all four of  
8 these pools are dry. And what's going to happen in  
9 three or four days before we get the equipment staged?

10 The second thing that we've been talking  
11 about here tonight is something that's been brought up  
12 before, is we pull the water -- I mean, I was at the  
13 POX event in Hungary. I know about pouring cold water  
14 on hot fuel. We all know what that does. That's going  
15 to rubblize those fuel pools. And unlike the POX  
16 event, which you only got a gas release because that  
17 event happened underwater, here you put that water on  
18 that hot fuel and rubblize it, you're going to get  
19 particulate also. So, you're going to have some level  
20 of significant release when you put that -- plus it's  
21 being carried away in the steam.

22 So, the dilemma we're thinking about  
23 here tonight is, is water the right thing to do? What  
24 are the options you have, and is water the right  
25 thing to do?

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1 I mean, this was all never-never land.  
2 We're all in never-never land. And we've just got to  
3 do what we think is -- multiple solution tasks,  
4 multiple attempts, that's why we want to know about  
5 the Zirc fire issue, is because we want to be able to  
6 -- we don't want to be like them in terms of just  
7 throwing solutions at the problem. We want to have  
8 learned solutions and a way to identify whether our  
9 solution is being effective, or not. And not just  
10 let's try this, let's be prepared to have some outcome  
11 measurement of whether that solution, that individual  
12 solution is being successful. [REDACTED]

13 [REDACTED]  
14 [REDACTED] we can actually use instrumentation to  
15 tell us what's being effective. That's why we need  
16 the answer to the zirc fire, and all the other things.

17 And then our latest question is, should we  
18 even attempt to put water on this thing? I mean, we  
19 could move all this equipment, and find out when we  
20 start pouring water in there that that's actually the  
21 wrong thing to do, because we're causing zirc fire  
22 reactions, or we're causing a rubble bed, and go to  
23 all (inaudible).

24 I mean, (a) this stuff may not be  
25 accepted; (b) it may not be the right technical

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1 solution, you know, C, D, E, F, and G. You know, we  
2 don't know. I guess I'm just kind of venting. I'm  
3 sorry.

4 FEMALE PARTICIPANT: No, I understand what  
5 you're saying.

6 CHUCK: So, we're in such never-never  
7 land, and I don't really know how to make decisions  
8 when you have very little information, very little  
9 control over situations. But we're just trying to  
10 move forward on a solution, multiple solution path,  
11 and that's the dolomite question, boron, all that  
12 stuff.

13 And the best insight you guys can give us  
14 on what's the right solution path; I mean, we've  
15 devised a solution path and came up with a rudimentary  
16 drawing, and we think that -- two days ago, we thought  
17 that was the best solution. But what we've learned  
18 from this is things change pretty dramatically.

19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 BRIAN McDERMOTT: Right, but I'm just  
25 listing -- this is Brian McDermott, Chuck. I just

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1 listed to you that the high-pressure spray, I mean, in  
2 terms of just the a way to knock down particulate,  
3 that has value. Right?

4 CHUCK: Yes.

5 BRIAN McDERMOTT: And I --

6 CHUCK: Go ahead.

7 BRIAN McDERMOTT: I understand what you're  
8 saying about the concern about dumping the water on  
9 that. I think we've already tasked the Reactor Safety  
10 Team to provide, one, advice on how to determine which  
11 method to use, whether the pool is wet, or whether the  
12 pool is dry. And then, secondly, what technique to  
13 apply to it for cooling in those two scenarios. And I  
14 don't know how the --

15 FEMALE PARTICIPANT: We've got -- Cathy  
16 has (inaudible).

17 BRIAN McDERMOTT: Okay.

18 CHUCK: Yes, I would ask you to be bold.  
19 I mean, make sure we're linking up with INEL and all,  
20 INPO and everybody to come up with -- not just a  
21 couple of people in our Reactor Safety Team sitting in  
22 a corner. I mean, I -- we've got to get all of our  
23 best intelligence on this, even GE, from INPO,  
24 whomever.

25 BRIAN McDERMOTT: Yes.

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1 FEMALE PARTICIPANT: Yes, and every four  
2 hours we have a call with Bechtel, INPO, GE, Naval  
3 Reactors, DOE.

4 CHUCK: Oh, that's great. That's great.

5 FEMALE PARTICIPANT: NRC.

6 CHUCK: That's great. So, what we need  
7 from that team are some recommendations, you know.  
8 What's our --

9 FEMALE PARTICIPANT: Yes, I will  
10 definitely get that, and work that on the next call.  
11 What they were directed to do when this was started  
12 was they were designing the pumping system for you.  
13 So, that's where everyone's focus has been.

14 CHUCK: Right.

15 FEMALE PARTICIPANT: Now, we've actually  
16 added some additional plans on there, so you'll have  
17 multiple strategies. I mean, I'm going to say this out  
18 loud, because I just stated it on the call with those  
19 groups. I mean, our goal is to get you strategies for  
20 how to deal with these priorities in the fuel pools,  
21 so right now we're working on four options. And we're  
22 trying to get that to you. In my mind, you have a  
23 9:00 -- Tim called and said he had a 9:00 a.m.  
24 meeting.

25 CHUCK: Right.

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1 FEMALE PARTICIPANT: So, we're trying to  
2 get you some strategies for how to deal with this by  
3 that time in writing, with details, with equipment,  
4 with some kind of focus that we can actually achieve  
5 the results, and plan -- the call we had with you  
6 earlier, the strategies have to keep in mind that you  
7 have to get a measurable mitigative result for the RAD  
8 that you're going to be exposing the people to.

9 CHUCK: Right. So, what we need you guys  
10 to think about is, we need a way to tell whether that  
11 strategy is effective or is making the problem worse.

12 FEMALE PARTICIPANT: Right.

13 CHUCK: That's what -- we need to know the  
14 strategy, and we need to know how, make it worse, make  
15 it better. You know, and then on the equipment issue,  
16 I hate to say, I don't know, hold off, because I'm  
17 reminded of General MacArthur who said that every  
18 battle, every loss, and every war and every battle can  
19 be boiled -- the root cause can be boiled down to two  
20 words, too late. You know, we did this too late, we  
21 did that too late, and we lost the battle. So, I'm  
22 hesitant ever to say let's hold off.

23 FEMALE PARTICIPANT: I've also got B5B  
24 nozzles from Ocone on their way to INPO. And we can  
25 ship this out, as well, because they've got the range,

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1 and the mist, and other things. We've actually moved  
2 them off the Oconee site, but we haven't shipped them  
3 out yet. They're waiting on word from us. But that's  
4 going to be part of the strategy for you.

5 CHUCK: Okay, well --

6 FEMALE PARTICIPANT: And we will try and  
7 move that.

8 CHUCK: Well, you guys are awesome.  
9 That's a great team. I'm really encouraged that you  
10 got that team put together, because that's we need.  
11 We're going to need all the great minds together, and  
12 let's solve this as an American nuclear industry  
13 helping the Japanese nuclear industry, not just the  
14 NRC.

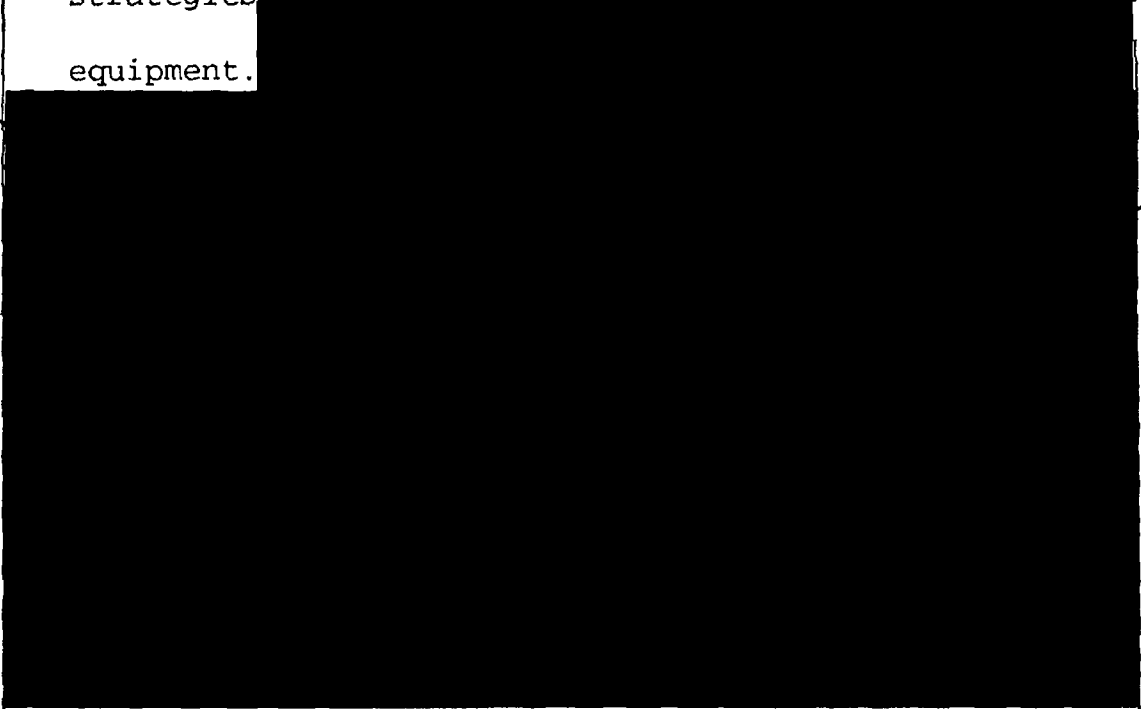
15 I did note in the press accounts, I don't  
16 know, you guys probably already know this, but that  
17 regulator, NISA, the nuclear agency here admits that  
18 number 4 doesn't have any water in it. So, hopefully,  
19 we've got that issue behind us. I think people are  
20 lining up on it. There hasn't been any water in that  
21 spent fuel pool, but we'll see, ultimately, the answer  
22 to that.

23 So, we really appreciate all of that work,  
24 and that's the most crucial, that's the most important  
25 work we're doing, is you guys coming up with those

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1 strategies and the outcome measurement, and moving  
2 equipment.



11 FEMALE PARTICIPANT: Chuck, I got a  
12 message that I needed to call you. Is this --

13 CHUCK: Yes, that was -- we just had that  
14 conversation.

15 FEMALE PARTICIPANT: Okay, good.

16 CHUCK: Everybody good back there,  
17 everything going okay, anything we can do for you  
18 guys?

19 FEMALE PARTICIPANT: Yes, I think you  
20 should get some sleep, Chuck.

21 CHUCK: Yes. Do I sound like I need it?  
22 (Laughing.)

23 FEMALE PARTICIPANT: I think it's only  
24 going to be --

25 CHUCK: I'm not being crappy at you, am I?

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1 FEMALE PARTICIPANT: No, not at all, but I  
2 think the day is going to get longer.

3 CHUCK: Yes. We're -- I'm going to -- in  
4 about an hour and a half here I'm going to go try to  
5 get some sleep until 7-8:00 a.m. when things will  
6 start really firing up here again, around 7 or 8:00,  
7 so I want to try and get a couple of hours. Right now  
8 I just even feel tired, so I'm okay.

9 FEMALE PARTICIPANT: I know.

10 CHUCK: Anyhow, you guys, too. I mean,  
11 you guys got -- I would imagine this is having a huge  
12 impact on the agency.

13 CHARLIE: Yes, it is.

14 CHUCK: I can't imagine.

15 CHARLIE: Yes, it is, but not the impact  
16 on us it's having on you.

17 CHUCK: Well, no, it sounds to me like  
18 it's having a big impact. And it's great that the  
19 agency turns to, and got this -- because we're  
20 definitely making a difference out here, particularly  
21 with the Ministry of Defense, and DART, and all those  
22 people. We're making a difference. They're looking  
23 at us for some solutions, and it's coming from you  
24 guys. So, I think I'm encouraged, and I think we're  
25 in the groove here.

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1 CHARLIE: Okay.

2 CHUCK: All right. Talk to you later.

3 CHARLIE: All right, thanks, Chuck.

4 CHUCK: Bye.

5 FEMALE PARTICIPANT: Bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: (Inaudible) Operations  
3 Officer. Mr. Casto, are you on the bridge?

4 MR. CASTO: Yes, sir.

5 MALE PARTICIPANT: Okay, stand by..

6 MR. CASTO: Okay. Laura or --  
7 particularly Laura, I think, or Duke.

8 MALE PARTICIPANT: All right. Stand by.

9 MALE PARTICIPANT: I tell you, the Chief  
10 does send those models. He just sends, kind of what I  
11 was trying to ask him for, and he asked me to hold off  
12 until we talked to -- but I can call him right back  
13 (inaudible).

14 MALE PARTICIPANT: She can tell him. He's  
15 right there with her.

16 MALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: Right? I mean, he's in  
18 NRC headquarters.

19 MALE PARTICIPANT: In headquarters. He's  
20 in Operations --

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: Is that community  
23 property over there? Is that (inaudible).

24 MALE PARTICIPANT: I guess it is.

25 MALE PARTICIPANT: Somebody just brought

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1 some random stuff (inaudible). This lady from the  
2 State Department hasn't replied back.

3 MALE PARTICIPANT: Who is it?

4 MALE PARTICIPANT: (Inaudible). She was  
5 the one that asked us for a copy of the daily updates,  
6 and I couldn't get it to her.

7 MALE PARTICIPANT: Are you able to get in  
8 touch with your family?

9 MALE PARTICIPANT: I can, but the --

10 BRIAN McDERMOTT: Hey, Chuck, this is  
11 Brian McDermott. I just want to confirm, you wanted  
12 to talk to Laura Dews. Is that correct?

13 CHUCK: If she's available.

14 BRIAN McDERMOTT: Yes. Hang on, we'll get  
15 you back there.

16 MALE PARTICIPANT: My family is two  
17 collies, so -- I called my sister and stuff to let her  
18 know just before I left, but I haven't really  
19 communicated since then.

20 MALE PARTICIPANT: We just got this  
21 document. You know Kathleen O'Donohue. Right?

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: She just sent me a  
24 document that addresses in detail works schedules and  
25 premium pay for individuals who --

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1 MALE PARTICIPANT: Yes, and they need to  
2 go to the whole team.

3 MALE PARTICIPANT: That's why I brought it  
4 up, so I'm going to print it out.

5 MALE PARTICIPANT: Let's print it out.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Hi, Mr. Casto. Yes,  
3 would you please press \*0 so I can transfer you to  
4 another conference bridge?

5 MR. CASTO: Sure. I think I can.

6 MALE PARTICIPANT: All right. I'm going to  
7 place you on another bridge, and then we'll get Laura.  
8 NRC1-6111.

9 MR. CASTO: Michael, are you there, or the  
10 Chairman on the White House briefing. Michael, are  
11 you there? Michael Dudak, are you there?

12 MICHAEL DUDAK: Yes, sir. How are you  
13 doing?

14 MR. CASTO: All right.

15 MICHAEL DUDAK: Yes, sir. How are you  
16 doing?

17 MR. CASTO: All right.

18 MICHAEL DUDAK: My apologies for the  
19 confusion. My apologies for the confusion. I'll turn  
20 it over to Mark.

21 MARK ERLINE: Mark Erline, the Director of  
22 Ops. My apologies. Apparently, our ledge folks had  
23 some confusion over the phone numbers, and I think  
24 that's what failed everyone, folks who dialed into  
25 another line. So, we're going to work that, and

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1 tomorrow have a single phone number going forward.

2 So, again, my apologies.

3 MR. CASTO: Yes, there were, I don't know  
4 how many, but the impression I have is that there were  
5 a large number of people on that old phone number.

6 MARK ERLINE: That's (inaudible). We know  
7 from feedback we've gotten this is becoming a very  
8 popular call, so that was really not well (inaudible)  
9 on our part, and we'll get it cleaned up tomorrow for  
10 sure.

11 Just a quick rundown of what went through.  
12 I mean, the call mainly focused on (inaudible)  
13 issues. It was announced about missing Americans last  
14 night. And there was also a revelation of a  
15 radioactive cloud, I think it was Miller that talked  
16 about that. And it would have been great to have had  
17 some more detail on that. But just to let you know  
18 that was out there, and that'll come up again tomorrow  
19 in terms of more information.

20 BRIAN McDERMOTT: So, the radioactive  
21 cloud you're talking about, you're talking about on  
22 the ground in Japan?

23 MARK ERLINE: That's correct.

24 BRIAN McDERMOTT: Okay.

25 MALE PARTICIPANT: Brian, from my

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1 understanding that NOAA actually gave a -- they stated  
2 a 19-mile radioactive cloud moving down the Japanese  
3 coast.

4 BRIAN McDERMOTT: Down the Japanese coast.

5 MALE PARTICIPANT: Where is that coming  
6 from?

7 MALE PARTICIPANT: Yes, we don't know.

8 MALE PARTICIPANT: That's why I called  
9 you, as soon as I was notified, and said get this to  
10 Public Affairs, and we'll try to head this off at the  
11 pass. But I don't know the impetus behind why it was  
12 stated.

13 MALE PARTICIPANT: And that's what they  
14 reported on this call?

15 MALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: Okay. Do we know who  
17 the representative was on the call?

18 MALE PARTICIPANT: I could go back and  
19 find that out for you and pass that through Michael.

20 MALE PARTICIPANT: That would be good.

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: Okay. We'll work back  
23 through our Protective Measures Team to see what  
24 NOAA's got, and what they're passing along there.

25 MALE PARTICIPANT: Okay. So, again, my

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1 apologies, and look forward to having you guys on the  
2 call tomorrow.

3 MALE PARTICIPANT: Yes, we like those  
4 calls.

5 MALE PARTICIPANT: Yes, sorry.

6 MALE PARTICIPANT: We like to participate.

7 MALE PARTICIPANT: Okay, we like having  
8 you, believe me.

9 MALE PARTICIPANT: All right.

10 MALE PARTICIPANT: All right. Take care.

11 MALE PARTICIPANT: All right. Thanks.

12 MALE PARTICIPANT: Michael, do you need  
13 anything?

14 MICHAEL DUDAK: I do not. My apologies,  
15 again, for the confusion, and the -- I will definitely  
16 get that number for you tomorrow.

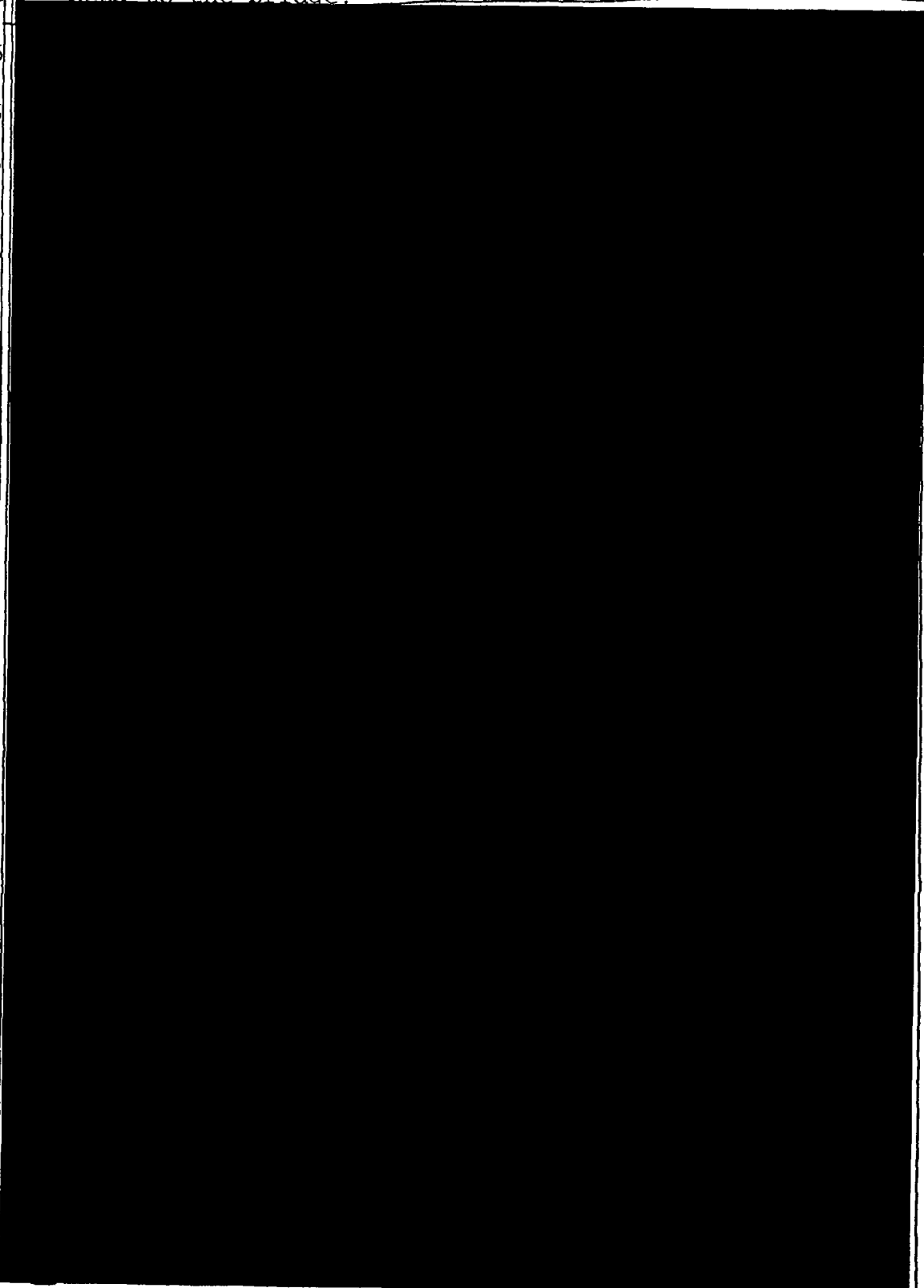
17 MALE PARTICIPANT: Okay. Let's move on.

18 MICHAEL DUDAK: Okay. Thank you.

19 MALE PARTICIPANT: Thank you.  
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1 (CONFERENCE CALL INITIATED)

2 HEADQUARTERS OPERATIONS OFFICER: This is  
3 the Headquarters Operations Officer. Chairman has  
4 been to the bridge.



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1 (CONFERENCE CALL INITIATED)

2 HEADQUARTERS OPERATIONS OFFICER: This is  
3 Headquarters Operations Officer. We transferred a  
4 gentleman in Japan on our team to the bridge.

5 RICK DeROSELLI: Yes, this is Rick  
6 DeRoselli and --

7 JACK FOSTER: Jack Foster.

8 RICK DeROSELLI: -- Jack Foster, Japan  
9 Team. Is there any other active engagement going on on  
10 the bridge right now?

11 MALE PARTICIPANT: No.

12 RICK DeROSELLI: Okay. Is Jim Shay  
13 available, please?

14 MALE PARTICIPANT: Jim Shay.

15 MALE PARTICIPANT: Yes, you've got the  
16 Executive Team room. Is that what you wanted?

17 RICK DeROSELLI: Okay. I guess I went to  
18 the wrong spot.

19 MALE PARTICIPANT: Tell me what you want,  
20 and we'll get you there.

21 RICK DeROSELLI: We're looking  
22 specifically to talk with Jim Shay, please.

23 MALE PARTICIPANT: On which team,  
24 Protective Measures?

25 JACK FOSTER: I would probably think he

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1 might be on the RST.

2 RICK DeROSELLI: Yes, probably RST.  
3 Sorry, I'm a little tired here.

4 MALE PARTICIPANT: That's all right.  
5 Don't worry about it. We'll get you there, hang on.

6 RICK DeROSELLI: Thank you. I should have  
7 known I didn't want the AT bridge.

8 JACK FOSTER: Yes. (Inaudible) but the AT  
9 bridge, that's for the Chairman.

10 RICK DeROSELLI: Okay.

11 JACK FOSTER: Jim might not even be there  
12 right now.

13 RICK DeROSELLI: Yes, I'm going to have to  
14 figure out some --

15 JACK FOSTER: Sure.

16 RICK DeROSELLI: Should probably just do  
17 like you said (inaudible). No, not yet. I got three  
18 shirts, three ties, and a jacket over there.

19 JACK FOSTER: You did?

20 RICK DeROSELLI: Yes.

21 JACK FOSTER: What size shirts do you  
22 wear?

23 RICK DeROSELLI: [REDACTED]

24 JACK FOSTER: Okay.

25

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1 (CONFERENCE CALL INITIATED)

2 MS. COOK: Hello, this is Annette  
3 (inaudible) Cook speaking. Is anyone on the line?

4 JACK: Annette, this is Jack. We're here.  
5 Annette, can you hear me?

6 MS. COOK: Yes.

7 JACK: Okay.

8 MIKE CASE: Are you calling in for the  
9 Chairman's brief?

10 MS. COOK: Yes.

11 MIKE CASE: Okay.

12 MALE PARTICIPANT: Okay, the permanent  
13 (inaudible), is that something -- I'm sorry, what time  
14 was that?

15 MALE PARTICIPANT: Oh, 2130.

16 MALE PARTICIPANT: 2130.

17 MALE PARTICIPANT: And it (inaudible).

18 MIKE CASE: Sounds like the Ambassador's  
19 (inaudible).

20 MALE PARTICIPANT: Oh, this is the one who  
21 (inaudible).

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: And we have a role  
24 (inaudible). The USAID is --

25 MS. COOK: Hey, guys, you know I'm hearing

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1 everything, so do you want to --

2 MIKE CASE: That's okay.

3 MALE PARTICIPANT: Did you see what  
4 Annette was wearing yesterday?

5 MS. COOK: (Laughter.)

6 MALE PARTICIPANT: Sorry, we'll put you on  
7 mute.

8 MALE PARTICIPANT: Hello.

9 MS. COOK: Yes. Hi, Commissioner Magwood.

10 COMMISSIONER MAGWOOD: Yes, and Bill  
11 Ostendorff here.

12 MS. COOK: Okay.

13 STEVE: Annette, this is Steve.

14 MS. SENEKI: Christine Seneki is here.

15 JACK GROBE: This is Jack Grobe in the Ops  
16 Center. Folks are still gathering here. The Chairman  
17 hasn't arrived yet.

18 FEMALE PARTICIPANT: Commissioner  
19 Apostolakis, are you on the line?

20 COMMISSIONER OSTENDORFF: Annette, Bill  
21 Ostendorff here.

22 MS. COOK: Yes?

23 COMMISSIONER OSTENDORFF: Have we locked  
24 down a Commission meeting time?

25 MS. COOK: We're shooting for Monday at

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1 9:00. I'm just waiting for --

2 COMMISSIONER OSTENDORFF: Okay.

3 MS. COOK: -- confirmation from the  
4 Chairman on the scheduling note, and the follow-on  
5 meeting. And I think he's been just tied up.

6 COMMISSIONER OSTENDORFF: Okay.

7 MS. COOK: I mean, I've talked to his  
8 staff, and I'm just waiting so that I can then let you  
9 guys know, and make the announcement to the public, as  
10 well.

11 COMMISSIONER OSTENDORFF: Okay. Thank  
12 you.

13 MS. COOK: Commissioner Apostolakis, are  
14 you on the line? Maybe the Chairman is talking to  
15 Commissioner Apostolakis.

16 COMMISSIONER APOSTOLAKIS: Hello?

17 MS. COOK: Hi. Commissioner Apostolakis?

18 COMMISSIONER APOSTOLAKIS: Yes.

19 MS. COOK: Okay. I'm just -- we're just  
20 waiting for the Chairman now.

21 COMMISSIONER APOSTOLAKIS: Okay.

22 MALE PARTICIPANT: Ms. Cook, are you on  
23 the line?

24 MALE PARTICIPANT: Hey, Donald, I  
25 transferred (Inaudible) off to the management bridge.

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1 MALE PARTICIPANT: Okay. And did the  
2 Chairman ever get on the line?

3 MALE PARTICIPANT: The Chairman is on the  
4 line with them, and giving them a brief right now.

5 MALE PARTICIPANT: All right. Thank you.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chuck, are you there?

3 CHUCK: Yes, I'm here.

4 MALE PARTICIPANT: Good morning.

5 CHUCK: Good morning. How are you all  
6 doing?

7 MALE PARTICIPANT: We're doing great. Did  
8 you get some sleep?

9 CHUCK: I did, I got a couple of hours. I  
10 got about two and a half hours, so I'm golden this  
11 morning.

12 MALE PARTICIPANT: Yes. Okay.

13 MIKE CASE: So, we're in the ET room, and  
14 there's Charlie, and Jack, and myself, and MJ, and Jim  
15 Dire, and coordinators, and we've got someone  
16 recording the call, making notes just to warn you.

17 CHUCK: Okay. I guess my focus for this  
18 morning is after sleeping on it and thinking about it,  
19 is the Chairman -- I'm going to get interrupted  
20 because they're going to bring in -- I promised those  
21 guys I would look at that. Standby, headquarters,  
22 standby for a second.

23 MALE PARTICIPANT: This is your summary  
24 you're going to give to the Ambassador?

25 MALE PARTICIPANT: Yes. He's actually got

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1 a copy of it. It was emailed, pretty wide  
2 distribution.

3 CHUCK: Headquarters, you can listen on  
4 this. We're basically looking at DOE's latest flyover  
5 assessment of dose. And they've got a presentation  
6 here to show -- would you want me to call you back, or  
7 do you want to listen to this briefing?

8 MALE PARTICIPANT: No, go ahead. I think  
9 we have the same paper in front of us.

10 CHUCK: Okay.

11 MALE PARTICIPANT: Did he say they got the  
12 same thing?

13 CHUCK: I think he said -- this says AMS  
14 measurements.

15 MALE PARTICIPANT: Yes, we (inaudible).

16 CHUCK: Okay. So, they do have it. All  
17 right. Go ahead.

18 MALE PARTICIPANT: Okay, just real brief,  
19 I mean, you can see what's going on. We did two  
20 flights yesterday, and these are presenting the  
21 (inaudible) measured at one meter. One of the  
22 problems is we don't (inaudible), how much of this  
23 dose is due to airborne, and how much is due to  
24 deposition. So, the assumption is that deposition,  
25 that's probably a little bit on the conservative side.

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1 So, it may overestimate it slightly.

2 The next page, this really just shows the  
3 track. It doesn't show really good detail. Go to the  
4 next one. You can see the area around the plant, so  
5 that's a 13-mile line. And close in we're getting  
6 some pretty hot stuff, but it also drops off pretty  
7 quickly. So, one to ten.

8 MALE PARTICIPANT: Hey, Chuck, are you  
9 looking at a sheet that has the lines indicating the  
10 flyover and the measurements in colors?

11 CHUCK: Yes. It has a 13-mile --

12 MALE PARTICIPANT: Yes.

13 CHUCK: It's just west of the plant, the  
14 first line that appears to be red and orange. You  
15 figure that's about a mile from the plant? And those  
16 numbers are on the order of between 10 and 30 millirem  
17 per hour metered from the surface is what DOE is  
18 telling us.

19 MALE PARTICIPANT: Right.

20 CHUCK: So, our estimate is that that is  
21 ground deposition when the wind is blowing inland,  
22 then the first explosions occurred. That's our sense  
23 of what this means.

24 MALE PARTICIPANT: Understand.

25 MALE PARTICIPANT: What were the

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1 (inaudible) of the plant (inaudible)?

2 CHUCK: What were the readings when?

3 MALE PARTICIPANT: At the plant boundary  
4 last night. Could any --

5 CHUCK: The plant's boundary readings, of  
6 course, that would be substantially less than a mile,  
7 are on the order of 150 millirem per hour, to 1R per  
8 hour. And the dose rates, the most recent information  
9 we have, and this is from yesterday, would range  
10 between 330 and 300R per hour directly over the plant,  
11 and in the vicinity of the plant. Maybe down as low  
12 as 10R per hour.

13 MALE PARTICIPANT: Okay. So, I was just  
14 wondering if any of that would --

15 CHUCK: Try to turn it down see if we can  
16 get that info out of here.

17 MALE PARTICIPANT: (Inaudible) showing  
18 from the plant?

19 CHUCK: Based on our interpretation of  
20 this, it doesn't appear to be shine from the plant,  
21 because you can see just north of the plant there's a  
22 path for the flyover that did not detect anything.  
23 So, this was shine from the plant, you would see it  
24 essentially 360 degrees around the plant. So, we  
25 believe that this is ground-based deposition.

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1 MALE PARTICIPANT: Unless there's some  
2 kind of shielding in the way.

3 CHUCK: You're talking about a plane that  
4 is quite a bit elevated, and taking these readings.  
5 And they're projecting what these readings are at a  
6 meter above the ground.

7 MALE PARTICIPANT: Right. Okay.

8 CHUCK: Okay?

9 MIKE CASE: I'll accept that.

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4 JACK: Hey, Chuck?

5 CHUCK: Yes?

6 JACK: Let me just --

7 CHUCK: DOE is going to go brief the  
8 Ambassador, so I'm back on with you guys.

9 JACK: Let me just share with you a couple  
10 of ways that I've explained this, and maybe it will  
11 help you.

12 First off, you have to recognize that the  
13 plume is going out to sea right now.

14 CHUCK: Yes.

15 JACK: And there are no measurements here

16 --

17 CHUCK: Yes, that's another --

18 JACK: Right.

19 CHUCK: There are no measurements in the  
20 plume which we would typically have in an emergency  
21 response. So, we don't actually know what is in the  
22 plume. These are measurements of deposition that was  
23 made several days ago.

24 JACK: Right. We've got this.

25 CHUCK: That's our assessment.

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1 JACK: The second thing is, that you  
2 assign protective action recommendations not just  
3 based on what you currently measure relative to the  
4 guideline. You assign those based on what you measure,  
5 and how well you understand what's going on in the  
6 reactor, and in the spent fuel pool, and what your  
7 reasonable projection is of what might happen in the  
8 future.

9 CHUCK: Yes, I think the DOE guys got  
10 that.

11 JACK: Okay. And the basis for the  
12 projections that we had really hasn't changed. And  
13 that was two dose estimates, assuming substantial fuel  
14 damage in spent fuel pools in reactors. And there is  
15 different conditions of the containment, and  
16 projecting what doses we could expect if the wind  
17 shifts around to the land, which we expect to happen  
18 in --

19 CHUCK: Jack, seriously, I've got to move  
20 on, but we'll get all that to him. That's no problem.  
21 The DOE guys will get that, and if he asks me hey,  
22 what the hell is going on, or what's going on, I can  
23 explain it to him.

24 JACK: Okay.

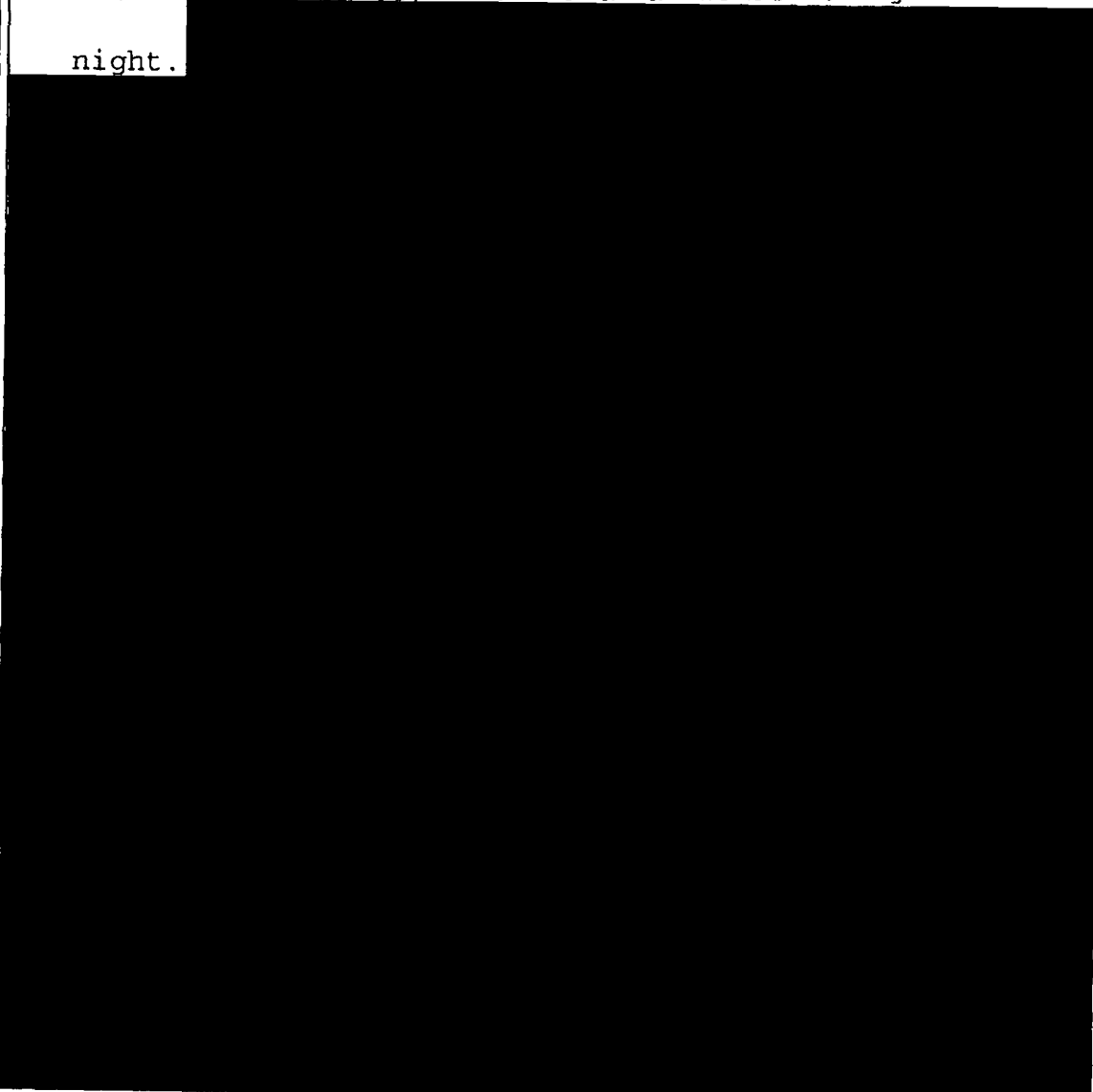
25 CHUCK: One of the things I want to talk

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1 about was, with you guys, and Jim. It occurred to me  
2 this morning about the Chairman, and the potential --  
3 he needs to probably be thinking about coming over  
4 here. I don't know if that's within the realm of  
5 possibility, but if you'd plant that seed and see what  
6 kind of -- what grows out of it.

7 You know, the technical guys are worrying  
8 about all the technical stuff, and they're doing a  
9 wonderful job on dose, and recovery strategies, and  
10 the Reactor Safety Team did a wonderful job last  
11 night.



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[REDACTED]

So, I just want to plant a seed about, you guys know the guy in charge, the General in charge always got to make a site visit sometime to have credibility. So, timing of a visit, maybe it's too early, maybe it's -- but I'm thinking that he might be -- his presence might be able to help us with the TEPPCO situation.

So, I need, if you guys would that T that up with Bill, and Marty, and decide from the ET perspective how you would approach that.

JACK: Chuck, I understand what you said, and we need to talk about that a little bit more. But what's important to me right now, what time do you

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1 have to brief the Ambassador?

2 CHUCK: Well, that's continuous.

3 JACK: What time do you have to leave this  
4 call?

5 CHUCK: I've got time.

6 JACK: Okay. I want to talk a little bit  
7 when you have time about information flow on two  
8 things. One is the condition of the plant, and the  
9 second one is radiation measurements to make sure that  
10 we have a good sound flow of information to you so  
11 that you can have knowledge that you can trust on  
12 what's going on. Similarly, for our teams back here,  
13 that we're all working from the same set of  
14 information. So, I want to talk a little bit about  
15 information flow.

16 I want to talk a little bit about how  
17 we're supporting you with this solution approach that  
18 Bechtel is working on, and we're working on. And what  
19 your expectations are there, and how we're supporting  
20 that, and what kind of time frames for deliverables,  
21 and things like that.

22 And I also want to talk about the staffing  
23 that you have, and whether or not that's sufficient,  
24 and what your thoughts are on that. So, when would be  
25 a good time to talk about that. Do you want to talk

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1 about it now, or do you want to talk about it later?

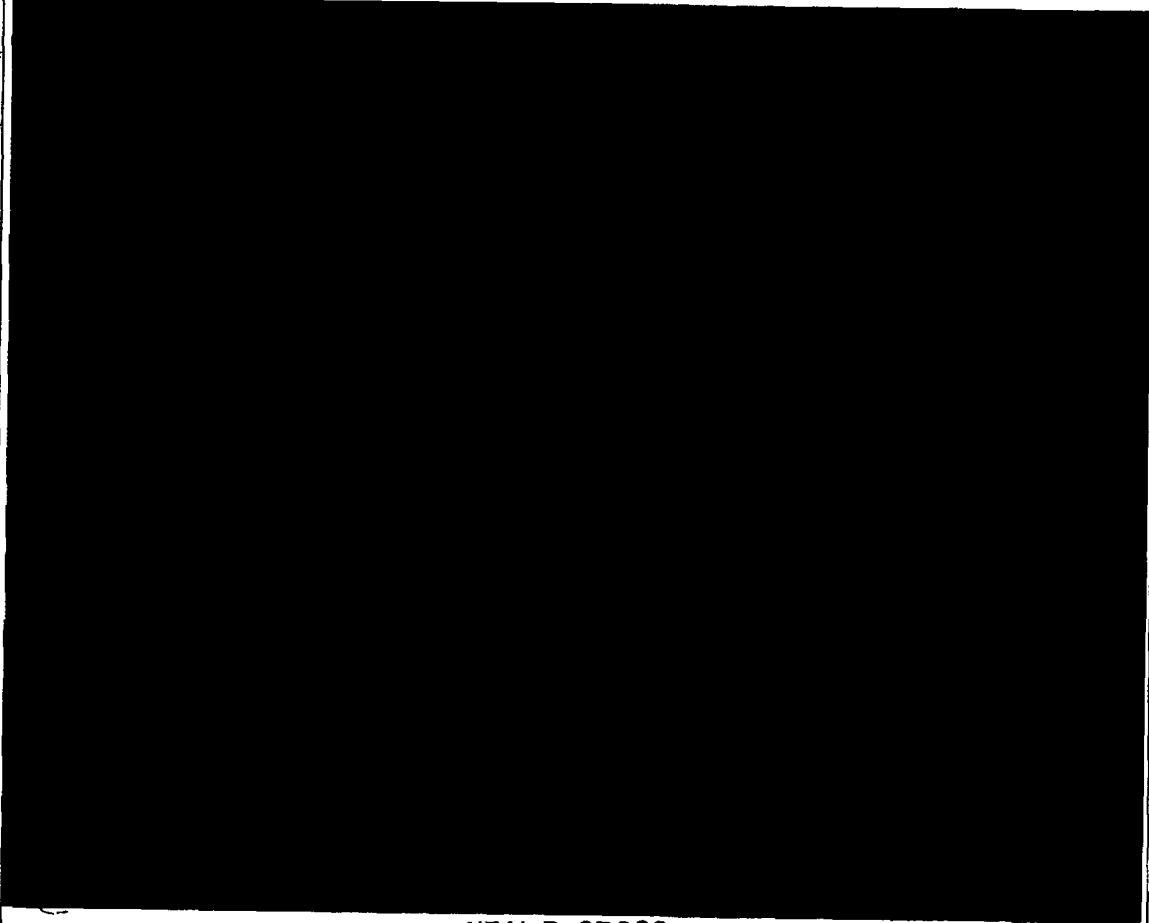
2 CHUCK: No, I want to talk about it now.

3 JACK: So, let's start -- I guess --

4 CHUCK: I can --

5 JACK: What information are we getting  
6 about the plant, and how do we get it? And how do we  
7 make sure that we're all operating with the same  
8 information?

9 CHUCK: 

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13 JACK: Okay.  
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9 JACK: Yes.

10 CHUCK: And we get information --

11 JACK: Hey, Chuck, what I'd like to do  
12 then is I'd like to make sure that on some periodic  
13 basis we provide you a status of what we understand  
14 the plans are, and then we all are operating with the  
15 same set of information. And if any of us get  
16 information that changes that, we update each other on  
17 a regular basis. Okay?

18 CHUCK: I think we're doing it. I don't  
19 understand what the problem is, Jack. I think we're  
20 doing that.

21 JACK: Okay, good.

22 CHUCK: Every time one of those guys come  
23 back from a briefing, we call the Ops Center and give  
24 the information we have.

25 JACK: Okay.

1 CHUCK: And we have status updates, so if  
2 there's something that we're not giving you let me  
3 know.

4 JACK: It sounds like we're connected  
5 there. The second thing is radiation measurement  
6 data. We are on the phone I think it's every six  
7 hours with DOE now.

8 MALE PARTICIPANT: It's more frequent.

9 JACK: More frequent than that. Are you  
10 getting the radiation -- because you were just getting  
11 the AMS data from DOE, and I want to make sure that  
12 you guys are getting that as quickly as we are, and we  
13 have a shared set of information on radiation  
14 measurements, as well.

15 CHUCK: Yes. We had it earlier, we had  
16 the data earlier. They had a PowerPoint presentation  
17 they were carrying up to the Ambassador, and they  
18 wanted to run it by me before they showed it to the  
19 Ambassador. That's the reason that it seems like  
20 we're not getting the data. The guys already had it.  
21 I just got into the office 30 minutes ago, so our  
22 guys, Jack Foster and others had already looked at the  
23 data.

24 MALE PARTICIPANT: Exactly. Chuck, are we  
25 getting periodic plume maps from GIS Central, do you

1 know?

2 CHUCK: Not yet.

3 MALE PARTICIPANT: Because I haven't seen  
4 one in a while.

5 CHUCK: No, I haven't seen one at all.  
6 Have you seen an actual measured plume map?

7 MALE PARTICIPANT: Is that a question?

8 CHUCK: Yes.

9 MALE PARTICIPANT: I haven't seen one in a  
10 couple of days. I haven't seen one in a couple of  
11 days. I mean, I'm assuming that your mapping changing  
12 of net conditions that we would (inaudible).

13 JACK: I think you have all the information  
14 we have.

15 MALE PARTICIPANT: Okay.

16 JACK: And we've just got to make sure  
17 that we keep it coming in a consistent way. The next  
18 thing is Fred is sitting here, and he's our Reactor  
19 Safety Team Manager, and he just got off with INPO and  
20 Bechtel.

21 FRED: And Chuck's folks were on that, and  
22 Chuck caught the tail end of it, too.

23 JACK: Okay. Are you fully up to speed  
24 with the status of that activity, Chuck?

25 CHUCK: Probably fully up to speed, but I

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1 got Tim and them working on it. There's too much to  
2 try to keep track of, and Tim is in charge of that,  
3 and the recovery effort. And he's got it.

4 JACK: Okay, good. And --



14 JACK: Okay. And then the last thing has  
15 to do with your team. My sense is that you've gotten  
16 about six hours of sleep since you landed. And you  
17 guys are going to be there for the long haul. And I  
18 was wondering are you getting into some sort of a  
19 predictable rotation where folks are getting rest?  
20 And do you have the right people there, do you need  
21 different people? Because we're planning on sending  
22 the next wave over, the next tsunami of responders, I  
23 apologize for that. The next wave over, and we want  
24 to make sure it's the right people at the right time.  
25 Do you have any thoughts on that?

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1 CHUCK: Yes. What I'd like to do is, each  
2 of the people that are over here, I would like for  
3 them to give me a list, or look at the list and tell  
4 me who they think is the best person to replace them.  
5 Most people know somebody at their talent level in the  
6 Agency, so I would give everybody a chance to weigh on  
7 give me a recommendation. And then we'd map that  
8 together with your list, and make sure we're  
9 comfortable with the people we're sending.

10 So, this morning I was going to ask the  
11 team here to come up with two or three names, or we  
12 could have them look at your list and say hey, this is  
13 a good person, that's a good -- that's the right  
14 person, whatever.

15 JACK: Yes, I wouldn't spend too much on  
16 that. What I'm most concerned about, we'll find the  
17 right people. What I'm most concerned about is the  
18 expertise. Do you have the right expertise? Do you  
19 have the --

20 CHUCK: Jack, (inaudible) concerned about  
21 who comes over with the expertise and the skill sets,  
22 and the diplomacy. It's more you can't just say hey,  
23 we need a severe accident guy, and Joe is the best  
24 severe accident guy. There's a lot -- huge political  
25 element to this, so it's got to be somebody with

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1 diplomacy skills.

2 [REDACTED]

3 [REDACTED]

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5 [REDACTED]

6 [REDACTED]

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JACK: Okay. How about the size of your team? Do you have enough people to get done what you need to get done and start a rotation such that people get rest?

CHUCK: Yes. I had this grand scheme that we would run rest periods, but that all blew up. So, basically, the direction that I've given is, it's up to each individual to figure out their meeting schedule, and their sleep schedule and get rest. And it seems to be working out. We're still able to keep three people, or four people here during the night and get -- so rather than to try to manage them into a sleep schedule, I just said you know your rest needs, and your meeting schedule, do it, you know. And not try to manage rest periods for people.

JACK: Okay. So, what I hear you saying

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1 is that you don't anticipate needing more people than  
2 what you have, that your skill sets seem to be the  
3 right skill sets, and you're particularly sensitive to  
4 the political and diplomacy aspects of each of the  
5 responsibilities. Did I pretty much capture it?

6 CHUCK: Yes. The best science person  
7 can't bring science to it if they don't have the right  
8 diplomacy skills.

9 JACK: I understand.

10 CHUCK: So, yes. You know all that.

11 JACK: I do. I do. Okay. Should we set  
12 up a periodic time that you and the ET can talk to  
13 make sure that we're connected?

14 CHUCK: I've been trying to call in every  
15 hour or when a significant meeting ends.

16 JACK: That sounds good, but it sounds a  
17 little onerous on you. Is that too much effort on your  
18 part?

19 CHUCK: No, not really. I mean, if I just  
20 call in and check in, or just to say we're still here.  
21 But it's 8:00 our time here now, or five to. I would  
22 -- maybe I'll start at two hours, maybe we can do two-  
23 hour increments.

24 JACK: Okay.

25 CHUCK: Unless something significant

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1 happens. I know this morning everybody is going to  
2 meetings, so they probably won't -- it will be that  
3 the wave will come back in later on today, this  
4 morning with information.

5 JACK: Okay. Hey, let me ask you one  
6 other question before we let you get back to work.  
7 This is about two in the morning yesterday, which  
8 would have been, I don't know what time it was your  
9 time, but Trap was running off to a meeting, a  
10 government meeting in a different building. I believe  
11 he called it the Legislative Building, or something  
12 like that. It began with a C, like Cusco Building.

13 CHUCK: Yes, he was going to Conte  
14 meetings.

15 JACK: And those were, it sounded like the  
16 first very close relationship that we were having with  
17 the government, where they were bringing us in. Are  
18 those meetings happening, and are they continuing?  
19 And what's the focus of that?

20 CHUCK: Yes, those meetings started when  
21 we first got here. We've been -- since the day we got  
22 here we've been going to Conte meetings. It's just,  
23 basically, it's the Prime Minister level, but there's  
24 very little -- they are being briefed. They're not  
25 having -- there's not information coming out of there.

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The urgency is the Reactor Safety Team and  
your good work with the industry, and them to come up  
with recommendations about how to deal with these

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1 spent fuel pools.

2 We're highly concerned, as everyone is,  
3 about the length of time that these pools have  
4 probably been dry, and what are the consequences of  
5 that. So, that's my big view of things.

6 I put people on these teams and they're  
7 out doing great work. So, what I need with the ET is  
8 the policy issues to help with the government issues.

9 JACK: Okay. And what are the highest  
10 priority things in that regard that you need from us?

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CHUCK: And, obviously, there are a hundred other meetings, but in terms of the big meetings that drive what we do, it's Conte and MOD. Conte is the Prime Minister's meetings, and MOD is the Ministry of Defense's meetings. So, those two meetings -- and there's a hundred other meetings, but those two meetings are the primary drivers of what we do.

JACK: Okay. Chuck, let me let you go.

1 You've got other things to do, so we'll hear from you  
2 in between one to two hours from now. Okay?

3 CHUCK: Yes. Thanks, guys.

4 JACK: Thanks a lot.

5 CHUCK: Yes.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Are we ready to go?  
3 They're not ready.

4 OPERATOR: There are currently 30  
5 participants in your conference. The following people  
6 are in the conference.

7 (Participant identifications made.)

8 OPERATOR: Roster playback is complete.

9 JACK ROSE: Good evening. This is Jack  
10 Rose. There's a number of people here with me in the  
11 Executive Team room that are listening in to this.

12 There have been a number of developments  
13 today that I wanted to update you on. First, let me  
14 go through the condition of the plant. Unit 1 has core  
15 damage, fuel is being cooled but possibly not  
16 completely covered, containment is in tact. Unit 2  
17 has core damage, cooling is getting to the fuel, but  
18 the fuel might be as much as a third uncovered,  
19 primary containment has some damage. Spent fuel pools  
20 on Unit 1 and 2, we don't have any indication that  
21 there's a problem there.

22 Unit 3 -- that doesn't mean there isn't a  
23 problem, we just don't have any indication that there  
24 is. Unit 3, the core is damaged, it's approximately  
25 half uncovered, is the best information we have.

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1 Primary containment has some damage. The greatest  
2 concern right now is the Unit 3 spent fuel pool, and  
3 possibly the Unit 2 spent fuel pool. But Unit 3 spent  
4 fuel pool, there's observed, visually observed  
5 substantial plume which appears to be a steam plume  
6 continuing to emanate from the Unit 3 reactor building  
7 debris. It does not appear to be smoke, it appears to  
8 be water vapor, so it appears that the spent fuel is  
9 boiling the water in the spent fuel pool.

10 Unit 4, all the fuel is in the spent fuel  
11 pool. There was substantial damage, as you recall, to  
12 the reactor building. It appears that there was  
13 damage to fuel rods during the explosion. They  
14 attempted to dump water into the Unit 4 spent fuel  
15 pool from a helicopter. That was not successful.  
16 They're in the process, and we are supporting this  
17 process, of trying to identify a methodology to spray  
18 water into the spent fuel pool of Unit 4.

19 The radiation dose levels range  
20 approximately from 100 to 1,000 millirem per hour.  
21 That's 100 millirem per hour to 1R per hour at the  
22 site boundary. Closer into the plant it ranges  
23 depending on times that the measurements are taken  
24 from 30 to 300R per hour in the immediate vicinity of  
25 the facilities.

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1           We have our first substantial amount of  
2 data from the Department of Energy flyovers, the  
3 aerial monitoring systems. Those aerial runs ran back  
4 and forth in a serpentine pattern within  
5 approximately a mile of the facility. That's the  
6 closest they came to the facility. And those runs  
7 show what we believe to be radioactive deposition to  
8 the west and south of the plant. The runs did not go  
9 into the areas where the plume would be, which is  
10 currently blowing out to sea. But they did show  
11 deposition on the range of 10 to 30 millirem per hour  
12 a meter above the soil.

13           There's a lot of calculations that go into  
14 that, because these are measurements that are being  
15 taken from an airplane, actually a helicopter, I  
16 guess. But they calculate what would be the dose  
17 rates a meter above the ground based on what they're  
18 measuring up in the air. And those dose rates range  
19 from 10 to 30 millirem per hour east and south of the  
20 plant, and then north of the plant the rates are on  
21 the order of 1 to a tenth, to a hundredth of a  
22 millirem per hour. So, substantially lower to the  
23 north.

24           We believe that this is ground deposition.  
25 It's substantial ground deposition from earlier in the

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1 week's explosions and material becoming airborne at  
2 the time when the wind was blowing inland instead of  
3 out to sea.

4 The Department of Energy took the data  
5 that was generated from these aerial monitor surveys  
6 and did some analysis, and they indicate that based  
7 on the current depositions, the Protective Action  
8 Guidelines are not exceeded beyond five miles. So,  
9 within five miles, the Protective Action Guidelines  
10 based on these depositions are exceeded.

11 The guidance that the U.S. provided for  
12 evacuation is characterized by the Department of  
13 Energy as sufficient and conservative.

14 I believe the next aerial monitoring is  
15 supposed to be conducted sometime early in the  
16 morning, in the middle of the night, essentially, our  
17 time. So, that's the next runs of aerial monitoring.  
18 We should have more data early in the day tomorrow.

19 I wanted to provide a little bit of  
20 background on the basis for the dose assessments that  
21 were attached to the press release that was issued  
22 yesterday. There were two Rascal runs that were  
23 attached to the press release. Those Rascal runs were  
24 based on the best information that we had at the time.  
25 And they're not Rascal runs of what was actually

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1 happening, but they're Rascal runs of what was two  
2 sets of reasonable things that could happen.

3 The first run was -- the source term was  
4 from one reactor with 100 percent core melt, and  
5 containment damage, unfiltered release, and the  
6 meteorological conditions that existed at that time.

7 The second run was a 33 percent core  
8 damage in one of the reactors with no containment  
9 structure, unfiltered release. And then 50 percent  
10 damage to one spent fuel pool, and 100 percent damage  
11 to a separate spent fuel pool. And, of course,  
12 reactor buildings have been destroyed for those two  
13 spent fuel pools, so there would be again an  
14 unfiltered release with no containment.

15 So, that was the basis for the two dose  
16 projections that were provided, and they showed  
17 exceedance of the Protective Action Guidelines that  
18 supported the recommendation that went out with the  
19 press release.

20 Our team is functioning well on site.  
21 It's closely connected both with the Japanese  
22 Government, as well as with the Ministry of Defense,  
23 the Japanese Ministry of Defense. We are in the  
24 process right now, we're having telephone calls  
25 multiple times a day led by our Reactor Safety Team

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1 with a variety of experts in the United States  
2 developing approaches to deal with the spent fuel  
3 pools, which appear to either be dry or substantially  
4 overheating.

5 Those calls involve a number of government  
6 entities, as well as INPO, Bechtel, and GE-Hitachi.  
7 It's an integrated effort to develop strategies to  
8 deal with the situation in an attempt to get cooling  
9 water onto the fuel to establish a higher level of  
10 stability of the situation.

11 That information is being shared on a  
12 regular basis with our team in Japan, and they're  
13 interacting with the Japanese Government on that. We  
14 expect in the future to have a clear engineered plan  
15 on how to do this, and at that point equipment will  
16 start being moved into position to implement that  
17 plan.

18 What else should I have added, guys? At  
19 this point, I'd like to open it up to questions.  
20 Okay. Absent any questions, the next --

21 JACK: Jack?

22 JACK: Yes?

23 JACK: Jack, this is Jack (inaudible). Do  
24 we have any information on radiological health  
25 effects, such as radiation sickness, or fatalities due

1 to radiation dose?

2 JACK: There are no reported fatalities.  
3 The only thing that I can think of, and you all can  
4 help me around the room, is a day and a half ago I'd  
5 say, roughly a day and a half ago, we had a report of  
6 five workers that had received very high doses, and  
7 they were reported as lethal doses. We don't have  
8 numbers. Marty?

9 MARTY: I will acknowledge that I've seen  
10 on the news reports of workers that appear to be  
11 suffering from radiation sickness kind of effects.  
12 But we have not heard anything official on that.  
13 That's just being reported in the media.

14 JACK: Okay, thanks. (Inaudible)  
15 assessment from last, or from yesterday. Have we gone  
16 back and taken a look at the assumptions of what we  
17 were considering in terms of (inaudible), hypothetical  
18 worst case versus what we're seeing?

19 JACK: Okay. We have to be careful. We  
20 have not done yet a worst case analysis, and I'm not  
21 sure -- we're attempting right now to define how we  
22 would do such an analysis, and what we would offer as  
23 the worst case.

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1 [REDACTED]  
2 [REDACTED] And, to be  
3 quite honest, the information that we're able to get  
4 on the condition of the core, and the condition of the  
5 reactor coolant capability, the condition of  
6 containment is very, very limited. We get information  
7 through a number of sources, many of them open  
8 sources. We do not have an information path directly  
9 from the operators, very different than what we would  
10 experience here in the United States.

11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 JACK: Yes, it makes sense, except that  
18 (inaudible) talked about the fact that the assessment  
19 that was done was a hypothetical worst case. I mean, I  
20 think those are the words in it. I don't have it in  
21 front of me.

22 JACK: Yes, okay. Yes, it does say worst  
23 case analysis on a very bad. I would not consider  
24 that a worst case, to be quite honest with you,  
25 because it assumes only half of one of the spent fuel

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1 pools melted, and one spent fuel pool is okay. So, I  
2 wouldn't -- I think we had to use our language  
3 carefully here, and we'll work that up so that the  
4 next (inaudible) that comes out in 6:00 in the morning  
5 is better.

6 JACK: Okay, thanks. And then the last --  
7 my last question here is, on page 3 of the SITREP it  
8 says that dose rates are like 40 to 50 millirem per  
9 hour on site. That doesn't -- the statement in there  
10 is probably dated. You all might want to take a look  
11 at that, too. Thanks.

12 JACK: Okay. I'm trying to find that. You  
13 said page 3?

14 JACK: Yes, page 3.

15 JACK: Okay. Yes, thank you. Other  
16 questions from other Commissioner Assistants?

17 MIKE KRAVANICH: Jack, this is Mike  
18 Kravanich. Let me first say I appreciate the new  
19 format of this report putting in the unit numbers by  
20 core and containment status, and also including the  
21 pools, and doing the priorities. It's much clearer  
22 than what we've seen in the past. It's very helpful.

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1 [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 JACK: Yes, Mike, I don't know that we've  
5 had anybody say that the fuel is covered with water.  
6 What I can tell you is there's clear evidence of a  
7 very significant hydrogen explosion. The only source  
8 of hydrogen that could feed that explosion is the  
9 spent fuel pool, so there must have been very, very  
10 high temperature zirconium interacting with water.

11 There is no visible vapors emanating from  
12 Unit 4 spent fuel pool area, which would be indicative  
13 of no water. It could also be indicative of a fully  
14 cooled core. That does not -- there is no source of  
15 cooling water going into the spent fuel pool, so to  
16 have a very significant hydrogen explosion, and then  
17 to think about the fuel being covered, those are kind  
18 of non sequitur concepts.

19 We do know that there were parts of  
20 debris, that the areas of debris around Unit 4 after  
21 the explosion which were contributing to very  
22 significantly high dose rates, and I understand that  
23 bulldozers were used to bulldoze that debris under  
24 some soil shielding, and the dose rates went down  
25 dramatically. That would be an indication that were

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1 fragments of fuel since there's no other source of  
2 substantial radioactive material which would have been  
3 involved in that explosion.

4 So, there's indication of a very  
5 significant hydrogen explosion. I want to make sure  
6 that it's clear that we don't know this. We are just  
7 interpreting this from the visual evidence that we  
8 have, as well as the radiological measurements.  
9 There's evidence of a very significant hydrogen  
10 explosion. There's evidence of fuel or some very  
11 highly radioactive material outside of the building  
12 after that explosion. And there's no evidence of  
13 water vapor, which would tell us that the spent fuel  
14 pool is dry.

15 MIKE KRAVANICK: That flyover that was  
16 done today at the plant that seems to be airing on all  
17 the networks, the Japanese, I guess it's their  
18 flyover, I don't think our crafts got that close. But  
19 they were showing what looked like a point of  
20 reflection on water, on the top of water. And that's  
21 why the TEPPCO folks were saying that's -- based on  
22 that and some other factors that Unit 4 was not their  
23 priority.

24 So, would you -- if that's their position,  
25 or they believe that, you would disagree with their

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1 priorities?

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MIKE KRAVANICK: Thanks.

JACK: That's two offices. Anybody else? Okay. I appreciate your time and attention, and the next briefing will be at 7:30 tomorrow morning. We moved that a little bit earlier because of another meeting that we have at 8:00. So, I appreciate it, and next time we'll be on at 7:30 tomorrow morning.

(Chorus of thank yous.)

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Mr. Sherron, you on the  
3 bridge?

4 MR. SHERRON: Yes, I am.

5 MALE PARTICIPANT: All right, sir.

6 MARTY: Brian, it's Marty.

7 BRIAN: Hey, Marty.

8 MARTY: Hey, sorry to bother you, but  
9 there are a couple of things I wanted to catch up  
10 with.

11 BRIAN: Okay.

12 MARTY: How did your meeting go with DOE  
13 today?

14 BRIAN: I went fine. Mike just sent our a  
15 summary. Let me -- I'm on the --

16 MARTY: Okay. If there's an email  
17 summary, I can get to it.

18 BRIAN: Let me see if he has you on CC  
19 here or not. Yes, you're on CC for the summary.

20 MARTY: All right. Is there anything  
21 that's not in the summary that I should know?

22 BRIAN: The only other thing was that I  
23 promised Secretary Chu that I'd give him a copy of the  
24 -- I think it's NCRP or one of those groups put out a  
25 pie chart that shows where the average American gets

1 their radiation dose from.

2 MARTY: Yes, the NCRP 103 or 107, I can't  
3 remember where.

4 BRIAN: Yes, you know, you get 50 percent  
5 from medical testing, you know. And I mentioned we  
6 had that, he was -- like I said, I was met with blank  
7 stares, so I said fine, I'll have one of my staff  
8 shoot it down to you.

9 MARTY: Yes. I think Mary Jane is holding  
10 up a copy of that chart. Let me make sure I --

11 MALE PARTICIPANT: Yes, that's the latest  
12 on (inaudible).

13 MARTY: Okay. 10 CRP 160.

14 BRIAN: Yes.

15 MARTY: Get this organization right. Yes,  
16 we got it in front of us.

17 BRIAN: Okay. Well, that was the only  
18 thing that I forgot to mention to Mike, that I told  
19 Pete Lyons I'll send it down to you guys, because like  
20 I said, when I mentioned that we had used it at the  
21 NAS study, I was met with blank stares.

22 MARTY: Okay. Did you get a chance to  
23 talk to Pete about his interest in sending a team to  
24 Japan?

25 BRIAN: I tried to catch Pete, I didn't.

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1 What I did is I caught John Kelly.

2 MARTY: John Kelly? I'm not sure I know  
3 John.

4 BRIAN: John works for Pete. He's the  
5 Deputy Assistant Secretary for Nuclear.

6 MARTY: Okay.

7 BRIAN: And I told him that we had  
8 received some indication that DOE wanted to have some  
9 staff go over to Japan and join the NRC team. He  
10 didn't -- he was not aware of any request for DOE  
11 folks to go over and join the NRC team. He said that  
12 they had a couple of people over there already.

13 MARTY: Right.

14 BRIAN: But I told him -- I just said  
15 look, I said, if you could talk with Pete, just tell  
16 him that Chuck Casto is right now kind of up to his  
17 ear balls in stuff, and had said that he would be very  
18 much appreciative if he didn't have to take on any  
19 staff at this time. And I said that if you could hold  
20 off, and maybe we could reconsider it down the road.

21 MARTY: Okay.

22 BRIAN: So, he said he would take that  
23 message. I can confirm it with him tomorrow.

24 MARTY: Yes, would you?

25 BRIAN: Yes.

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1 MARTY: That would be great to follow-up.  
2 I think Chuck is really -- he's got a number of  
3 concerns he's dealing with, including having half a  
4 dozen loose canons on deck.

5 BRIAN: Right.

6 MARTY: I think that's the worst case.  
7 The best case would be if he had a half a dozen people  
8 that were working for him, for DOE, and that's --

9 BRIAN: Yes.

10 MARTY: And he's not even ready to take  
11 that on.

12 BRIAN: Yes, but I would -- like I said, I  
13 couldn't grab Pete at the end there, but I was able to  
14 grab John. And like I said, he was drawing a blank  
15 stare, and I guess unless it wasn't under his staff.

16 MARTY: All right. So, we'll track an  
17 action from here that you'll follow-up with DOE to get  
18 confirmation --

19 BRIAN: Right.

20 MARTY: -- that they're not intending to  
21 send a team of "reactor experts" to Japan at this  
22 time.

23 BRIAN: Right.

24 MARTY: And if they do come around to  
25 thinking that that's necessary, Brian, if you could

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1 get John to agree that they would coordinate with us  
2 first.

3 BRIAN: Yes.

4 MARTY: Thanks.

5 BRIAN: I'll take care of that.

6 MARTY: Thanks a lot.

7 BRIAN: Okay.

8 MARTY: Have a good night.

9 BRIAN: Okay. Take care.

10 MARTY: You too, bye now.

11 BRIAN: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Are you there, Mr.  
3 Casto?

4 CHUCK CASTO: Yes, I am.

5 MALE PARTICIPANT: We have Mr. Casto on  
6 the line.

7 CHUCK CASTO: Good evening, folks.

8 MALE PARTICIPANT: Hey, Chuck, we were  
9 beginning to think you didn't love us any more.

10 MALE PARTICIPANT: Yes, we hadn't heard  
11 from you in so long.

12 CHUCK CASTO: Sorry, I was with the  
13 Ambassador and he, you know --

14 MALE PARTICIPANT: Oh, you name dropper.

15 (Telephone operator breaks in.)

16 MALE PARTICIPANT: We're back, Chuck.

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I guess the latest couple of things.  
Brook is typing up a matrix right now of status of

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1 spent fuel pools, and reactor vessels. I know we put  
2 out our status update, but we need -- I'm going to  
3 send you -- I'm going to ask her when she gets done,  
4 thank her very much for doing that, this matrix. And  
5 we need to update it at least once a day, and when  
6 conditions change. It, basically, provides a very  
7 brief summary table of the status of the reactors and  
8 the spent fuel pools.

9 MALE PARTICIPANT: Okay, fantastic. We  
10 were just talking about the need to have a uniform  
11 consistent status.

12 CHUCK CASTO: Yes. And we've got -- the  
13 Ambassador gave me the -- he gave me the matrix, what  
14 he wanted to see in it. So, what is here is what he  
15 wants. So, I don't really want to add to it, or  
16 subtract from it, so this is the way he wants to be  
17 briefed. So, we'll give you that template, and then  
18 we could have another version that has what we need o  
19 it, but this -- we've got to have the Ambassador's  
20 version.

21 MALE PARTICIPANT: Well, let us know what  
22 it is that you would want on it beyond what the  
23 Ambassador wants, because we're really right now  
24 struggling to try to nail down a format that matches -  
25 - we have to think about your needs first. There's a

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1 lot of people that want all this information, but we  
2 need to be supportive of you and the team, so let us  
3 know what it is on this table that they're not getting  
4 that you need.

5 CHUCK CASTO: Okay, thank you. The second  
6 thing, probably the bigger development. You guys may  
7 be aware that the [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]

12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]

16 [REDACTED] But we're trying to get a  
17 meeting up, an international meeting to coordinate the  
18 international -- everybody wants to help, but it needs  
19 to be coordinated, and give each nation a mission.  
20 And we'll do that. And, hopefully, we can match up  
21 their interests and interests with the mission for  
22 that nation.

23 MALE PARTICIPANT: We want to make sure  
24 that we're not stepping on each other's toes, that  
25 roles and responsibilities are clear.

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1 CHUCK CASTO: Right.

2 MALE PARTICIPANT: Chuck, are you trying  
3 to -- I'm worried that you're going to get completely  
4 overwhelmed with this.

5 CHUCK CASTO: Well, I have good  
6 international programs people. Actually, I have three  
7 people going to that meeting. I think it's three going  
8 to that meeting. We're hanging in there in terms of  
9 leveraging ourselves. I don't think about, but before  
10 the day is over with, I'll think about what additional  
11 resources we might need.

12 I am working -- everybody has been  
13 working, the people here are working hard. There's no  
14 doubt about that, Jack. They're full out. And,  
15 particularly during the day, as you might imagine,  
16 things get really busy. But we're surviving, and  
17 going well, I think, or quite well. But we'll expand  
18 as we need to. And I'm not opposed to expansion. It  
19 gets a little bit unwieldy and although we have got  
20 fairly good facilities here under the circumstances,  
21 we're -- we already have a couple of people that are  
22 with us, embedded with us, particularly from DOE that  
23 are here. It's not clear to me exactly what all their  
24 roles are, but they're not in the way. So, we're  
25 surviving, and I appreciate your interest in that.

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1 And if you think that there's something that we're not  
2 accomplishing, that you think we could use some help,  
3 we're obviously receptive to that.

4 MALE PARTICIPANT: There isn't any area  
5 that we've identified so far, Chuck. You guys are  
6 doing a great job.

7 MALE PARTICIPANT: Yes, you really are.  
8 I'm just -- I sense that you're killing yourself, and  
9 by adding this international coordination --

10 CHUCK CASTO: Yes, that just came up less  
11 than an hour ago.

12 MALE PARTICIPANT: Okay.



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19 FEMALE PARTICIPANT: Yes, I'd like to see  
20 (inaudible) conversations.

21 CHUCK CASTO: Yes, Tier 2.

22 FEMALE PARTICIPANT: We know what we're  
23 aware (inaudible).

24 CHUCK CASTO: Right.

25 FEMALE PARTICIPANT: A person I can

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1 communicate back and forth for them to (inaudible).

2 If they're open to it, of course.

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 MALE PARTICIPANT: Okay.

10 CHUCK CASTO: So, they're going to make  
11 that call sometime. Then he also rogered the idea  
12 about the Chairman calling or visiting TEPPCO  
13 Washington, D.C. and talking with them about  
14 cooperation. I've talked to Margie, Brook and Kirk and  
15 I had a long conversation with Margie Doan on other  
16 strategies with regard to -- and I don't -- Marty, you  
17 and I haven't talked, and I don't think Jack and I  
18 have talked.

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

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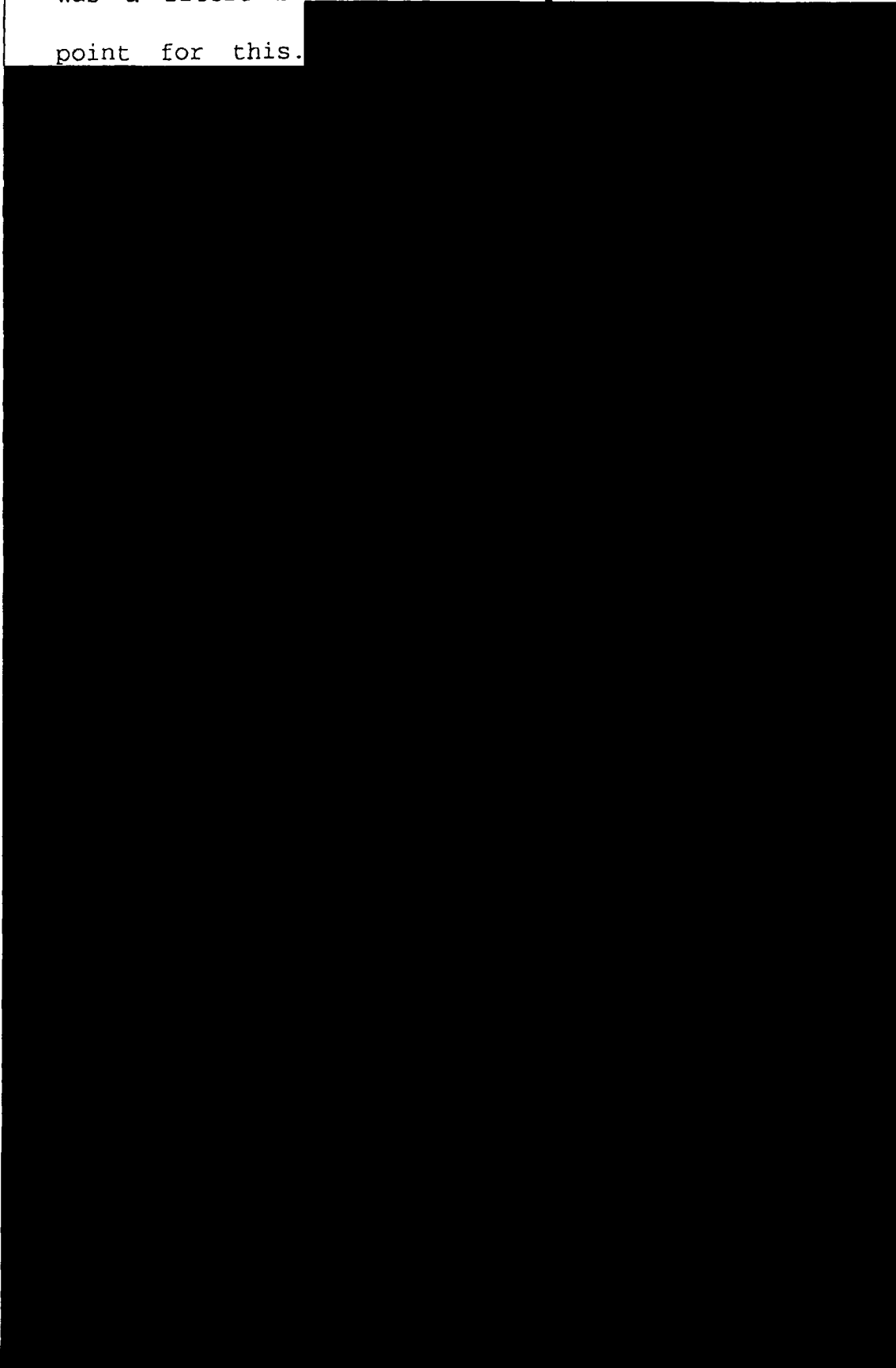
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24 MARTY: Good. Now, help me understand in  
25 all of this where is NISA, and where is the military,

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1 because when we left yesterday, your sense was there  
2 was a little bit of instability around who was on  
3 point for this.



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1 MARTY: No, go ahead.

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14 So, they're -- and here --  
15 and I think Jack, God bless him, I think he's got to  
16 hear this stuff over and over again, but our strategy  
17 is let's look at all of our options for recovery, but  
18 one of the things I want with the options, each option  
19 has to have a measures of success, so that we know  
20 we're not making the conditions worse.  
21 So, if we're doing water, we need to have  
22 some measure of success about what water, if that is  
23 helping or hurting. So, we've asked questions. Last  
24 night we asked questions to the Reactor Safety Team,  
25 what are the measures of success for water? Okay.

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1 You know we can get you [REDACTED] [REDACTED], we can get  
2 dose, we can get -- you know, you tell us. And what  
3 does a Zirc fire look like in terms of the smoke or  
4 the glow of the flame, whatever it is. And we asked  
5 this last night.

6 We need to know what that measure of  
7 success on water is. And if you want to do some other  
8 option, I need to know what the measure of success is  
9 before we're going to do it, because we're not going  
10 to make conditions worse. First, do no harm. So, I  
11 don't want to try any strategy that doesn't have sound  
12 measures, or at least reasonably sound measures of  
13 success. Because the last thing we want to do is make  
14 the situation worse for the Japanese. We're going to  
15 won this thing, if we do.

16 MARTY: Yes.

17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
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25 [REDACTED]

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22 So, water measures of success, if you all  
23 offer to us that that's your recommendation, then we  
24 need to know if that's your strategy for recovery,  
25 then we need to know what the measure of success is.

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1 And I'll shut up again.

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MALE PARTICIPANT: Hey, Chuck?

CHUCK CASTO: Yes?

MALE PARTICIPANT: Do we have good  
information regarding dose rates at the facility?

CHUCK CASTO: Yes. And people -- there's  
1R -- I don't want to give you numbers, but I know --

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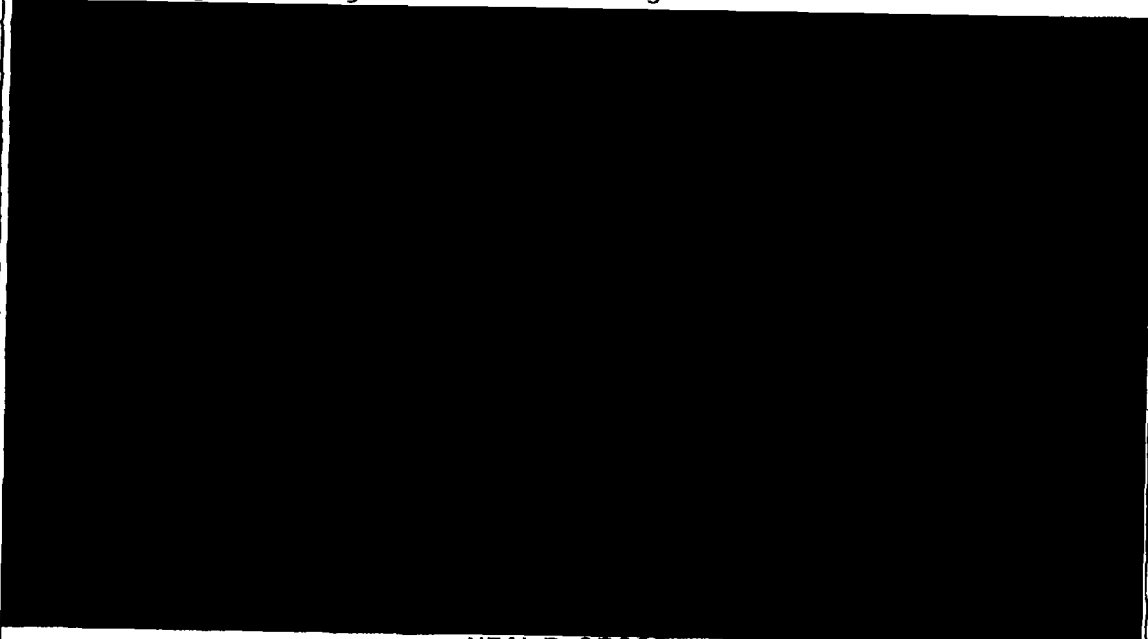
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1 my guys are telling me that there's -- at the facility  
2 and the operations, there's fatal doses. I mean, in  
3 the control room, or wherever it's -- they're not  
4 going to be able to operate anything around that  
5 plant.

6 MALE PARTICIPANT: Well, that's  
7 interesting because the news, and this includes the  
8 TEPPCO folks today, and I don't know how old these  
9 reports are, they're showing a lot of optimism about  
10 restoration of power to the components in the  
11 facility.

12 CHUCK CASTO: And maybe they'll pull  
13 something off, a rabbit out of the hat, but we don't  
14 see the power restoration as a -- what are you going  
15 to do? You've a building that exploded. You think  
16 the spent fuel pool pumps and breakers, and all that  
17 stuff you can just turn the lights on?



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1 [REDACTED]  
2 [REDACTED]  
3 CHUCK CASTO: Right. And then you've got  
4 a building that's had an explosion. I mean, look at  
5 the walls of that building. What's the likelihood of  
6 the stuff working?

7 Now, the power is great. We all love  
8 power, and the power might be able to help power some  
9 temporary equipment. That's great.  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]

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25 MALE PARTICIPANT: Chuck, let me give you

1 a little bit of an update on what's going on here.  
2 And the reason I asked for the dose rates on site is  
3 the folks here are trying to figure out what kind of  
4 piece of equipment they need, and where they might be  
5 able to place it to get water into the spent fuel  
6 pools.

7 The first thing is that our staff here has  
8 concluded that water is the right answer, regardless  
9 of whether you've got a Zirc fire, a partially  
10 uncovered spent fuel, totally uncovered spent fuel. In  
11 any condition, lots of water is the right answer.

12 They're talking three fire tugs being  
13 pulled up to the -- in the ocean to the plant site,  
14 and dock there, and then abandoned. And those would  
15 be the pumpers that would take the suction out of the  
16 ocean, and put the water to the next stage. And it  
17 would eventually come to some sort of a device,  
18 whether it's a crane or something with an appropriate  
19 nozzle that would get water to where you want it to  
20 get to.

21 The difficulty is, from what I'm hearing  
22 you say, is how to get that equipment where it needs  
23 to go in a way that appropriately protects human  
24 life, but gets the equipment there such that it can  
25 function effectively.

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1 CHUCK CASTO: Right. Now, whether that's -  
2 - you know, modulizing the construction and flying it  
3 on a helicopter, as much as you can modulize it, and  
4 flying it in and have people go in and bolt it up.  
5 That's the question. If you could get some kind of  
6 nozzle that goes into the spent fuel pool, out the  
7 side of the floor, down the wall of the building, and  
8 then has an elbow that goes toward the ocean, have  
9 that as a piece, and hang that off the building on a  
10 helicopter, and then bring in another piece and lay it  
11 down towards the ocean, another straight piece of  
12 pipe, and another, and another until you get out to  
13 the ocean. And then you've got to have some poor  
14 people run in there and bolt it up in a Humvee.

15 We suggested to them last night, yesterday  
16 that they get some Humvees and strap lead to the  
17 Humvees like they strap metal. And order the Humvee  
18 itself, I don't know much how shielding a Humvee  
19 gives. But put lead on a Humvee, because one of the  
20 things is they're getting all that dose in the transit  
21 time to the job to and from.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: I was wondering, is  
24 there anywhere we have like dose rate maps on site, so  
25 that we --

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1 CHUCK CASTO: I think we have that  
2 somewhere. Yes, I think we do. And it's bad, Jack,  
3 between units -- I remember some numbers between Units  
4 2 and 3, the two buildings, it's 450 to 600R.

5 MALE PARTICIPANT: Okay. Yes, I saw that,  
6 too.

7 CHUCK CASTO: So, you're talking lethal  
8 doses here, or certainly --

9 MALE PARTICIPANT: Okay. Our Reactor  
10 Safety Team is working every four hours, a phone call  
11 with Bechtel, and others within the federal government  
12 and outside, continuing to work on the solution path.  
13 And that's clearly our number one priority. It's not  
14 coming together rapidly. And once it does, then the  
15 equipment has to be identified, and gotten to the  
16 right places.

17 But we're going to need to connect you  
18 with that as it develops. And I'll make sure that  
19 happens.

20 CHUCK CASTO: No problem.

21 MALE PARTICIPANT: Is there anything else  
22 that we can do for you?

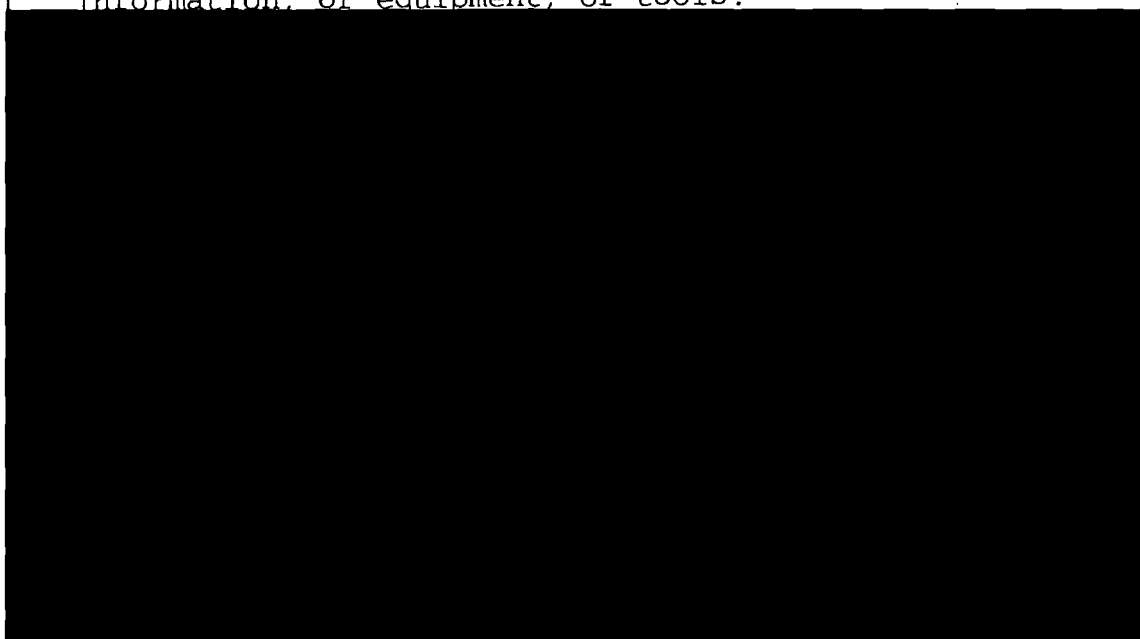
23 CHUCK CASTO: OH, God, you guys are doing  
24 so much. No, I don't -- we had a team meeting a while  
25 ago, and they were really -- I mean, it's a wonderful

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1 team, and they had really no major needs of  
2 information, or equipment, or tools.



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11 And then what I need from you guys  
12 technically that I know of, now I don't know what all  
13 the team is asking you for, because I can't keep up  
14 with all what they're doing, but from what I know is,  
15 the solution path that you talked about, Jack, and the  
16 measures of success for those solution paths. And the  
17 equipment status.

18 I'm going to send you -- I don't know if  
19 you know what the status is of the equipment. In other  
20 words, has the equipment left Perth, Australia? Do  
21 you know?

22 MALE PARTICIPANT: I don't know.

23 CHUCK CASTO: Okay. I need to know that.  
24 And Tim probably knows it, but Tim is out doing real  
25 work.


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1 MALE PARTICIPANT: Tim is (inaudible).

2 CHUCK CASTO: Okay. Maybe I can find Tim.

3 MALE PARTICIPANT: What you're talking  
4 about is Bechtel's equipment that was identified that  
5 was in Australia.



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1 I don't know, but that's my belief.

2 MALE PARTICIPANT: Yes. I think you're

3 (inaudible) there.

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14 And Brook, and Kirk, and Tony, and the  
15 embassy staff here is helping us weave through this.  
16 And I'll say that you -- we also have to -- I don't --

17  
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20  
21 MALE PARTICIPANT: Right.

22 CHUCK CASTO: So, we have to do something  
23 and watch that feedback and see how that plays. And  
24 then you say okay, well, that didn't work, so I've got  
25 to alter that strategy and do something else, because



1 the feedback tells me that that strategy didn't work.  
2 It's just like the strategy on the spent fuel pool.  
3 So, you're working multi, multi, multidimensional  
4 issues here.

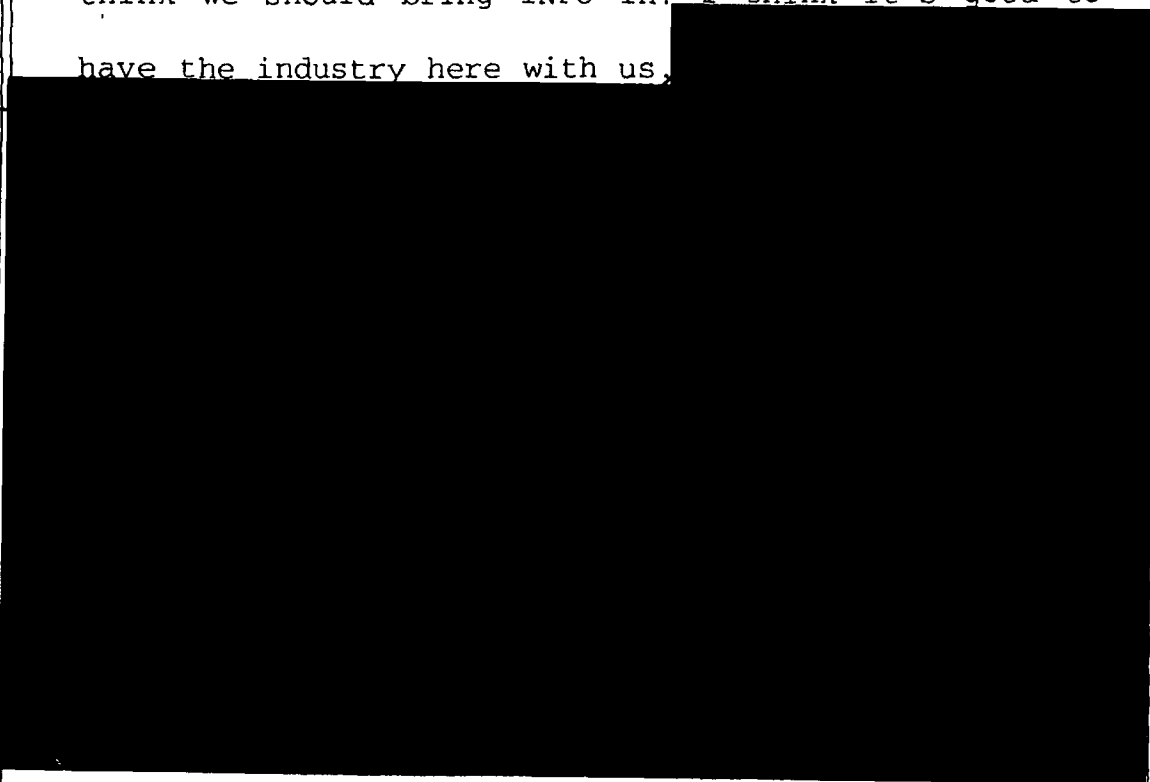
5 MALE PARTICIPANT: Right. It's very  
6 complex. I understand. But I also understand your  
7 feedback, that makes good sense.

8 CHUCK CASTO: And we're harvesting that.

9 MALE PARTICIPANT: Good.

10 MALE PARTICIPANT: Did you get what you  
11 needed from INPO? When we last talked, you were  
12 looking for a severe accident management strategy  
13 expert.

14 CHUCK CASTO: You know, honestly, Marty, I  
15 think we should bring INPO in. I think it's good to  
16 have the industry here with us.



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16 So, whatever protocols we have to put in  
17 place, we'll do. Just tell us what those are. But,  
18 basically, when I heard that, I just said okay, no.

19 MALE PARTICIPANT: Let us follow-up on  
20 that. That's the first we're hearing of that.

21 MS. YULE: Marty, this is Jennifer Yule.  
22 Hey, we were -- Brian and I were talking about the  
23 concept of just indicating that we do have quite a bit  
24 of severe accident specialty internal to NRC already.  
25 And if INPO doesn't -- I mean, I'm not -- we weren't

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1 sure why the INPO option was going to be used rather  
2 than just our own staff. But now, especially if we're  
3 not getting -- not being able to make that INPO  
4 connection happen.

5 MARTY: Right. Jennifer, this is Marty. I  
6 mean, the issues were multifaceted, including getting  
7 INPO involved in this, because there's some intangible  
8 benefits there.

9 MS. YULE: Okay.

10 MARTY: And the other piece was that the  
11 research folks do have probably a very good handle on  
12 accident progression. But what I heard Chuck looking  
13 for was somebody that understood the implementation of  
14 strategies in the field.

15 MS. YULE: Yes. And I just want to add,  
16 because of the SOARCA work that we were doing  
17 especially with, obviously, the Peach Bottom plant,  
18 which is Mark I, we've gone through the SAMGs with  
19 Peach Bottom in great detail. So, there is the actual  
20 hands-on experience.

21 CHUCK CASTO: Yes, I guess my thought on  
22 this -- this is Casto. My thought on this is, we just  
23 need a conduit -- we don't need it, okay? It would be  
24 helpful, it's not a need, it would be helpful to have  
25 a conduit for the U.S. industry. They could bring all

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1 the U.S. industry knowledge together and be that  
2 conduit. And whether that is in the -- you guys are  
3 having frequent phone calls with them, having them in  
4 the WHO. If we think that it would be helpful to come  
5 over here, I'm okay with any of that. I mean, that  
6 issue is not something that's on my radar screen as  
7 that's going to get water in the pools. That's not a  
8 critical path item.

9 MALE PARTICIPANT: Right, right. Chuck, I  
10 understood what we were doing. And I hope Jennifer  
11 can appreciate the multifaceted aspects around this.

12 MS. YULE: Yes, yes. No, I understand.  
13 Yes, I was just -- I heard that you needed severe  
14 accident expertise, and all I was indicating was that  
15 it's possible, we have it, if that's what you were  
16 looking for.

17 MALE PARTICIPANT: We have a rationale for  
18 getting INPO involved in this.

19 MS. YULE: Yes, yes, and I understand  
20 that. That's fine.

21 MALE PARTICIPANT: RST reached out to  
22 research, we have worked with your folks, Jennifer,  
23 and we're sending some info to --

24 MS. YULES: Okay. Yes, I was just offering  
25 the help if you were looking for severe accident.

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1 That's all.

2 CHUCK CASTO: The other thing I asked for  
3 last night, and if you all would just -- I'm going to  
4 circle back on this in a second. We asked about the  
5 research on B5B on air oxidation in a BWR. I didn't  
6 get any feedback. I don't know if that was -- the  
7 research -- research we had given two tasks yesterday.  
8 One was tell us what water on a Zirc fire -- tell us  
9 a couple of things about a Zirc fire. What does water  
10 do? What does it look like so we can tell success?  
11 And how do we put it out if we start one?

12 MS. YULE: Okay.

13 CHUCK CASTO: So, those were the two  
14 questions we asked for research. In addition, research  
15 has B5B air oxidation in a BWR research --

16 MS. YULE: Yes, we got the data. Yes.

17 CHUCK CASTO: Okay. And we asked for you  
18 all to look at that, and if there are any insights,  
19 feed that to the whole team, the whole NRC team and  
20 us.

21 MS. YULE: Yes.

22 CHUCK CASTO: And, Marty and Jack, what  
23 I'm thinking is, I need to make sure -- we had the  
24 same issue here. I think we need to devise a list of  
25 top priorities, sort of like action items, so that we

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1 know that the things are on the plate. You know what  
2 I mean?

3 MALE PARTICIPANT: Absolutely.

4 MALE PARTICIPANT: Yes, we're keeping  
5 track of the action items here on a list that's highly  
6 visible to us, but I think --

7 CHUCK CASTO: We don't have that, so we  
8 don't know -- we're not getting that feedback loop to  
9 know what you're -- because, honestly, there's been  
10 some turnover -- things dropped on turnover. And I'm  
11 just being frank with you, because I don't have time  
12 to  
13 be --

14 MALE PARTICIPANT: No, no, no, I believe  
15 that to be true. So what you've just given us in an  
16 action item to get that list to you.

17 CHUCK CASTO: Right.

18 MALE PARTICIPANT: And then we need to  
19 maybe even put a column on there, I'm looking from  
20 here, on priorities. Are we color coding, or --

21 FEMALE PARTICIPANT: Priorities is  
22 internalized in the --

23 MALE PARTICIPANT: Okay. So, we need to  
24 make sure that you can see what we're tracking as  
25 priorities. If they're not your priorities, we need

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1 to adjust that list. So, that's an action for us.

2 CHUCK CASTO: Exactly. And we're growing  
3 and all this. I mean, we're all out here in something  
4 that we've never done before, and we're growing on  
5 this. I'm not being critical, I'm just saying we're  
6 growing, we're learning, we're establishing  
7 infrastructure and we're winding up, we're going  
8 through the learning curve, and we're going to be  
9 okay.

10 MALE PARTICIPANT: Hey, Chuck, when you  
11 talked air oxidation, what were you talking about? Air  
12 oxidation of what?

13 CHUCK CASTO: The fuel and the zirc --  
14 zirc oxidation, I believe, was the --

15 FEMALE PARTICIPANT: Yes, it is zirconium  
16 oxidation that gets to the Zirc fire under air cooled  
17 conditions. And we had run this test at Sandia, so we  
18 have good numbers on the time it takes to get there,  
19 and the kilowatt per foot rating that you need to get  
20 there.

21 CHUCK CASTO: Yes. My understanding is  
22 there was actually research, and they actually did  
23 this. This isn't just --

24 FEMALE PARTICIPANT: Yes, yes. No, no,  
25 no. We ran tests at Sandia, and burned the hell out

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1 of a BWR bundle, or two, or five actually because it  
2 propagated.

3 MALE PARTICIPANT: Hey, Chuck, what  
4 specifically do you need on that that would be helpful  
5 to you in working these strategies?

6 CHUCK CASTO: We need the insights, and we  
7 need it to inform our strategies.

8 FEMALE PARTICIPANT: But I think what he's  
9 asking, do you need the kilowatt per foot rating that  
10 you need to have before you get zirc fire?

11 CHUCK CASTO: No, that -- you might be  
12 able to give that to our staff out here or something.  
13 That might be fine, but that's not helpful for me. I  
14 just need -- I need you to get that information,  
15 whatever the insights are to the Reactor Safety Team,  
16 and Tim and those guys that are doing the -- well,  
17 wonderful job all of them, the Reactor Safety Team and  
18 Tim, on the options and strategies for the water  
19 option.

20 MALE PARTICIPANT: Hey, Chuck?

21 CHUCK CASTO: Yes?

22 MALE PARTICIPANT: We've worked that this  
23 afternoon with research staff, and the answer to all  
24 of these questions are put water on it in large  
25 quantities.

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1 CHUCK CASTO: Yes, I got that, Jack, but  
2 I've got to know --

3 MALE PARTICIPANT: Chuck, specifically  
4 relative to the Zirc fire, we had the fire folks [REDACTED]

5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]

9 [REDACTED] If you're going to see a Zirc fire, you're  
10 going to see a very energetic emanation that's not  
11 going to dissipate in the space of what we've been  
12 seeing out of Unit 3.

13 MALE PARTICIPANT: And the  
14 characterization of that would be very different. It  
15 would look very different, and it wouldn't dissipate  
16 so rapidly. So, the assessment is that that's water  
17 vapor.

18 MALE PARTICIPANT: The other thing that he  
19 said, Chuck, is when you start putting -- if you get  
20 that Zirc reaction, and you start putting water on it,  
21 at first you're going to get a very violent reaction  
22 that's going to cause you to secondguess what you're  
23 doing, but you need to keep putting lots of water on  
24 it.

25 MALE PARTICIPANT: Yes. The bottom line

5

1 is, once you start don't stop, and put as much water  
2 on it as you can.

3 CHUCK CASTO: Okay. I buy all that, and  
4 that's great. But I need measures of success of that.

5 MALE PARTICIPANT: The measures of success  
6 can be [REDACTED], it can be --

7 CHUCK CASTO: Right, Jack, but I need  
8 specific measures of success. [REDACTED]

9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED] Jack, I can't make

12 this worse. I can't, so I need -- I've got to have --  
13 before I put a solution in, I've got to know how a  
14 measure in detail with the image people. I've got to  
15 know -- we don't want to -- right now it's a stable  
16 environment that's not releasing massive amount of  
17 radiation. If I put in a -- if we put in a solution  
18 and we release -- yes, it may get water in the pool,  
19 and it may eventually flood it, but if we send out a  
20 massive amount of plume, we need to know that before  
21 we do it. Okay? So, then we can do dose calculations  
22 or do whatever and say okay, we're about to cause a  
23 big plume here. We know it, and we've taken enough  
24 protective actions to do it.

25 We have a stable environment right now. We

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1 don't want to unnecessarily disrupt it, and do  
2 something wrong. That's my -- so I need to know  
3 precisely. I can conceptually think about those  
4 things, but I need to know precisely what the  
5 zirconium fire look like, how do I put it out? If I do  
6 harm, I need to know how to back out of that harm.

7 MALE PARTICIPANT: Chuck?

8 CHUCK CASTO: Yes?

9 MALE PARTICIPANT: First off, I don't  
10 think we have a stable situation. We have a situation  
11 that's slowly degrading.

12 CHUCK CASTO: You're right, Jack. You're  
13 right. But it's not -- it's stable enough that I --  
14 I'm not interested in making it worse.

15 MALE PARTICIPANT: Well, and I understand  
16 what you're asking for, and we will get you something.  
17 I don't know that it's going to meet the kind of  
18 precision that you've just articulated.

19 CHUCK CASTO: [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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1 MALE PARTICIPANT: Yes, I understand.

2 CHUCK CASTO: And I need to know DOE on  
3 dose people, what can we -- what isotopes can we  
4 expect, and what quantities if we started a Zirc fire.  
5 What is the color if I do just [REDACTED] What  
6 does it look like?

7 Jack, it's stable enough that I don't want  
8 to put in a solution that makes matters worse.

9 MALE PARTICIPANT: We understand. And we  
10 -- I think your insights here and your direction is  
11 very good. And we can get some people working on  
12 this, and develop some projected measures of what it  
13 will look like, and how to measure it. And it'll tell  
14 you whether or not things are happening in the way  
15 they think they are supposed to be happening.

16 CHUCK CASTO: Yes, we've had people here  
17 that throw solutions at problems. And I want to -- I  
18 need an informed solution.

19 MALE PARTICIPANT: Yes, got it. I  
20 understand. That's good direction. And I understand  
21 it, and we'll make it happen.

22 CHUCK CASTO: I have a Colonel standing  
23 here over my shoulder in fatigues, and that makes me  
24 nervous when these military guys come in here and  
25 stand over my shoulder. Fortunately, he's not armed

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1 that I can tell.

2 MALE PARTICIPANT: Okay. Then you're  
3 okay.

4 CHUCK CASTO: So, you're going to get the  
5 action item list to us? I'm getting the list that the  
6 Ambassador needs, and we're good. Right? Everybody  
7 healthy and good?

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: Jennifer.

10 MALE PARTICIPANT: Jennifer, thank you. I  
11 was having a brain fart here. Jennifer, could you  
12 stay on for a minute?

13 MS. YULE: Yes.

14 MALE PARTICIPANT: Okay, thanks.

15 MALE PARTICIPANT: Hey, Chuck, one final  
16 thought. And I know that this is not a high priority  
17 for you, but I know it would be running through my  
18 mind if I were in your shoes. Have you seen any gaps  
19 in NRC's programs or things that we need to be  
20 addressing in the near term. I'm not talking about  
21 long-term lessons learned reports, but is there  
22 anything that jumps to your mind that you see as a  
23 gap, a safety gap?

24 CHUCK CASTO: No, I don't think so. I  
25 think with B5B, we're in good shape with B5B. I think

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1 B5B will probably need to be rethought a little bit in  
2 terms of the insights here about where we store  
3 equipment, and those kind of things, don't store it on  
4 site, don't -- there's going to be those kinds. And  
5 then there's going to be lots of lessons learned on  
6 SAMGs. You can see all that, but it's nothing that is  
7 urgent.

8 I know there's going to be questions in  
9 the United States about Mark I containments in the 23  
10 BWRs and the Mark I containments, but I think we have  
11 to take the position that we're safe. We were safe  
12 yesterday, we're safe today, and we're going to be  
13 safer tomorrow based on what we've learned.

14 MALE PARTICIPANT: This is good. I mean,  
15 the President is calling for an assessment of the  
16 safety of nuclear power in this country. And I'm not  
17 exactly sure what that means yet, but I think we have  
18 an opportunity to shape it. And I would jump in and  
19 shape it in roughly the same direction you're  
20 pointing, so this is good.

21 MALE PARTICIPANT: Okay, Chuck, thanks.

22 CHUCK CASTO: Okay, guys. Hey, thank you.  
23 It's invaluable what you all are doing in supporting  
24 us.

25 The other thing I need is, Marty, if you

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1 guys want to send me that list of people for relief,  
2 let me take a look at that.

3 MARTY: Yes, we're working on it.

4 CHUCK CASTO: Okay. When it's ready, send  
5 it to us. My strategy, I think Jack suggested, or I  
6 talked about, I would suggest, and I talked to the  
7 team here, that people look at that list and say based  
8 on what they know the environment is here, the  
9 political aspects, the technical aspects, that they  
10 may each individual member look at that list and maybe  
11 give me two or three recommendations of who they think  
12 would be a good -- because people know who is like-  
13 minded to them, and has certain personalities, and all  
14 that. And they know what the mission is going to be.

15 One of our key issues with that relief  
16 team is what will the mission be when they get here?  
17 So, we've got to think about the mission, we've got to  
18 think about, as Jack and I talked about, they may be  
19 the best technical minds in the world, but the soft  
20 side of this is enormous. So, a really good technical  
21 person that's not a people person, and doesn't  
22 understand the politics involved in this, it will  
23 fail.

24 MALE PARTICIPANT: Got it. All right, we  
25 got it.

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1 CHUCK CASTO: Okay, thank you, guys.

2 Thank you.

3 MALE PARTICIPANT: Thanks, Chuck. Check  
4 in again any time you want.

5 CHUCK CASTO: Okay. Probably in an hour,  
6 hour and a half, two hours, something like that. But I  
7 don't know, I'm on standby with the Ambassador. He's  
8 got a lot of -- when they need a pretty face, you know  
9 who they come to get. That's just the way it is, you  
10 know. It's a burden I carry, but I'm used to it by  
11 now. So, I just have to be the pretty face and that's  
12 it. I don't know anything, but I'm just a pretty face.

13 MALE PARTICIPANT: Well, that's great.

14 MALE PARTICIPANT: Keep your sense of  
15 humor, buddy.

16 CHUCK CASTO: All right. Talk to you soon.

17 MALE PARTICIPANT: Okay.

18 MALE PARTICIPANT: Okay, I think Chuck's  
19 approach here is really spot on. Jennifer, are you  
20 still on?

21 MS. YULE: Yes.

22 MALE PARTICIPANT: Yes, good. The -- when  
23 he started mentioning the B5B, and air oxidation of  
24 fuel and everything, what I didn't understand is what  
25 he was trying to get at. And his approach, I think,

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1 is spot on.

2 We concluded that water is the right  
3 answer. What we really need to do is get the people  
4 that understand how fuel is going to behave both from  
5 a physical standpoint, as well as from a radiological  
6 standpoint to get them specific ways to tell whether  
7 they're making progress, or whether they're degrading  
8 the situation.

9 MS. YULE: And can I ask a question there  
10 about insuring that water is the right option?

11 MALE PARTICIPANT: Yes.

12 MS. YULE: Do we have details about the  
13 packing of the spent fuel pool?

14 MALE PARTICIPANT: Well, what do you mean  
15 packing? Oh, you mean the distribution, the fuel in  
16 the pool?

17 MS. YULE: Well, if there are hot  
18 assemblies next to each other, because there takes a  
19 certain kilowatt per foot, and a certain packing to  
20 actually cause a Zirc fire. So, it can actually --  
21 the fuel can heat up, but in a lot of scenarios  
22 it won't catch fire. So, what Chuck is saying is, in  
23 fact, true, that if it's just heating up and it's just  
24 steaming off the last of the water, so what? It could  
25 eventually just be air cooled. Whereas, if you dump a

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1 lot of water on it, you're going to generate hydrogen  
2 and you lead to an explosion. You know, hydrogen  
3 detonation.

4 So, part of this idea of throwing water on  
5 it, I would say yes, provided we know that it's going  
6 to get to a Zirc fire.

7 MALE PARTICIPANT: Yes. Jennifer, what we  
8 did is was we involved your staff in a fairly  
9 protracted conversation this afternoon to look at the  
10 different scenarios. And the answer to your question  
11 is, we don't know how their assemblies have been  
12 placed into the pool. And, quite frankly, we don't  
13 even know if the assemblies are where they were  
14 placed.

15 MS. YULE: Okay. But I heard that they  
16 were out of the core for 100 days.

17 MALE PARTICIPANT: Well, Unit 4 was out  
18 for 105 days, but the one we're really looking at is  
19 Unit 3. Unit 4, their hydrogen detonation occurred in  
20 the pool.

21 MS. YULE: Yes.

22 MALE PARTICIPANT: And they have much  
23 greater structural damage around the sides of the  
24 pool, from everything we can tell. And if you had a  
25 subsequent detonation there, there's not much there to

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1 contain that wave. But as far as we know, the  
2 detonation that occurred in Unit 3 was above the  
3 refueling floor. The walls are still, we think,  
4 reasonably in tact. But there was a concern of what a  
5 further detonation might do.

6 MS. YULE: Yes, I would worry if further  
7 hydrogen explosion based on the -- causing disruption  
8 of fuel, as well as losing integrity of the pool. So,  
9 making --

10 MALE PARTICIPANT: Unit 4 we're thinking  
11 is pretty well disrupted.

12 MS. YULE: All right. But --

13 MALE PARTICIPANT: The path forward here,  
14 I think, needs to be, we've got a belief, a strong  
15 belief and some alignment both within the agency, and  
16 outside the agency, that putting water on the spent  
17 fuel pool is the right thing to do.

18 MS. YULE: Well, can I just ask that some  
19 --

20 MALE PARTICIPANT: Let him finish. Okay?

21 MALE PARTICIPANT: Jennifer, let me  
22 finish. Cappell and Fettis are producing a White  
23 Paper that is capturing the basis for that decision,  
24 and that's going to be shared with everybody tomorrow  
25 morning. And then there's going to be a call, and I

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1 can't remember when you said it was going to be, Fred.

2 MALE PARTICIPANT: We have an email out to  
3 INPO, and (inaudible) and support a call on this topic  
4 tomorrow morning.

5 MALE PARTICIPANT: Okay, sometime tomorrow  
6 morning with the industry folks, as well as the  
7 government folks to get alignment, and see if there is  
8 alignment that this is the right answer. So, we're  
9 bringing the best minds from research, and NRR, and  
10 Naval Reactors, and the industry, and the laboratories  
11 to -- we're bringing as much as we can together to get  
12 a final position on this approach.

13 I think the other piece that Fred was  
14 looking at was how does he tell whether we're making  
15 progress? And I think that's a really good point.  
16 And I'm assuming that it's going to involve some sort  
17 of [REDACTED]

18 [REDACTED]  
19 [REDACTED]  
20 what should we be looking at, and what should it look  
21 like? And what would be indicators of things looking  
22 badly?

23 And I think we just need to get the right  
24 really smart people answering that question, so that  
25 when we give them the strategy, we give them how to

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1 measure success. I think he's right on point with  
2 that. Does that make sense?

3 MALE PARTICIPANT: It does. It's more  
4 complicated than it sounds, though, because what you  
5 expect to see is a function of what is in the pool  
6 when you put water in it.

7 MALE PARTICIPANT: Right.

8 MALE PARTICIPANT: And we don't know.

9 MALE PARTICIPANT: And it's going to have  
10 to be real time. It's not going to be a go/no-go.  
11 It's going to have to be look at what happened, and  
12 continue looking at what happened, and make judgments.  
13 I don't think there's going to be acceptance criteria,  
14 you know, go/no-go acceptance criteria. But I think we  
15 need to know -- we need to have the smartest people we  
16 can tell us what we should be looking at. Should we  
17 simply [REDACTED] Look for those  
18 to go down, or should we be looking for certain  
19 radiological constituents?

20 MALE PARTICIPANT: And you (inaudible)  
21 your feedback because you're -- unless you've got some  
22 [REDACTED] that you're bringing to the site.

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: [REDACTED] don't --  
25 they're not continuous coverage.

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1 MALE PARTICIPANT: You might have a  
2 feedback loop that's (inaudible).

3 MALE PARTICIPANT: Right.

4 MALE PARTICIPANT: And you can tell the  
5 stress level that Chuck is under. He's a pretty --

6 MALE PARTICIPANT: A continuous feed, how  
7 we get that to the people over there.

8 MALE PARTICIPANT: Right.

9 MALE PARTICIPANT: You can tell the stress  
10 level that Chuck is under just by the fact that he  
11 considers the situation right now stable. You know,  
12 there's nothing stable about this situation. And the  
13 only way to get stable is to get long-term cooling of  
14 the fuel in each of the places where it exists, in the  
15 reactor vessels, in the spent fuel pools. That's the  
16 only way to get stability here.

17 MALE PARTICIPANT: Yes.

18 MALE PARTICIPANT: I will say compared to  
19 what we were doing for a couple of nights here, this  
20 is progress.

21 MALE PARTICIPANT: This is stable.

22 MALE PARTICIPANT: Yes, that's right.

23 MALE PARTICIPANT: And if you have a fuel  
24 configuration in 3 and 4 that is not going to -- it  
25 can steam completely off, and it's not going to go to

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1 a Zirc fire, and if you have stable cooling to cores  
2 1, 2, and 3 --

3 (Simultaneous speech.)

4 MALE PARTICIPANT: Those are big ifs.

5 MALE PARTICIPANT: The fact of the matter  
6 is we don't know any of that.

7 MALE PARTICIPANT: We don't know any of  
8 that, I agree.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: So, we've got to  
11 operate on the assumption that it's not. At the same  
12 time, I understand where he's coming from, if throwing  
13 water into there is going to create the next hydrogen  
14 explosion and take this thing down a whole new path,  
15 then I don't want to be the one making that happen.

16 MS. YULE: Yes, and that was really the  
17 crux of my question, was what do we know about the  
18 spent fuel pools. I would -- so they don't have any  
19 documentation that they've provided, the regulator  
20 doesn't have it either?

21 MALE PARTICIPANT: [REDACTED]

22 [REDACTED]  
23 [REDACTED]  
24 MS. YULE: All right. Yes. Because,  
25 again, that is a strategy, just let it burn, let it

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1 boil off and just sit there. And we have an  
2 appropriate technical basis to recommend that if the  
3 packing isn't that strong.

4 MALE PARTICIPANT: Jennifer, I don't know  
5 that we've gone to TEPPCO and asked them what kind of  
6 information are you looking for? How is the fuel  
7 racked? I mean, if that's makes a difference, we  
8 ought to go to TEPPCO and say this is the information  
9 we want.

10 MS. YULE: Yes, it would be how it's  
11 racked, and the age of the fuel. And then we could  
12 tell you whether or not it would get to a Zirc fire.

13 MALE PARTICIPANT: How much difference  
14 does that make?

15 MALE PARTICIPANT: I think of difference  
16 for the studies that have been done, if you have the  
17 hottest fuel together, it makes -- 180 days old, you  
18 may still be able to do a Zirc fire. If you do it in a  
19 matrix the way the U.S. plant is doing it, you get  
20 that status to 20 days after offload. So, you've got  
21 105 days after offload and you've got the fuel  
22 dispersed, you might not be able -- you might have an  
23 air cool --

24 (Simultaneous speech.)

25 MALE PARTICIPANT: You don't know what the

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1 geometry is in each core.

2 MALE PARTICIPANT: Let me ask the action  
3 question. Let's say that TEPPCO comes back and say  
4 the hottest fuel was segregated in some way, whatever  
5 way they do it, that they left spaces or something.  
6 Why would we believe that that's still the condition  
7 of the spent fuel? There was spent fuel on the ground  
8 outside of Unit 4, pieces of spent fuel. But why  
9 would we believe that the spent fuel pool is in any  
10 configuration similar to what it was before?

11 I just don't understand how we would take  
12 action based on that information. It might be good  
13 information to have, but I don't think it's  
14 dispositive.

15 MS. YULE: But Unit 3 had -- I didn't  
16 realize Unit 3 had undergone major disruption in the  
17 spent fuel pool.

18 MALE PARTICIPANT: We don't know. Unit  
19 3's explosion seemed to be at a little bit higher  
20 elevation, and more energetic. Unit 4's explosion  
21 seemed to be a little bit lower elevation, and there's  
22 more of the roof structure still in place. But we  
23 don't know what that means.

24 MALE PARTICIPANT: What's left of the  
25 concrete wall structures.

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1 MALE PARTICIPANT: That's right. And they,  
2 apparently, have pieces of debris that they were able  
3 to bulldoze dirt over, and dramatically decrease the  
4 dose rate around the building. So, I don't know how  
5 you can conclude that that's anything other than  
6 fragments of spent fuel.

7 MS. YULE: Yes. I mean if that's the case,  
8 then all bets are off, and you've just got to throw  
9 water on it, and hope you don't get a major steam  
10 explosion and cause further disruptions.

11 MALE PARTICIPANT: And that's basically  
12 what (inaudible) came up with and your staff.

13 MALE PARTICIPANT: Yes. And the other  
14 thing we're not talking about is don't we have to  
15 shield the fuel in Unit 4 so we can get to 1, 2, and 3  
16 where we have cores that we don't know if they're  
17 being cooled?

18 MALE PARTICIPANT: Yes. What you're  
19 saying is don't we need the water --

20 MALE PARTICIPANT: We can use the water  
21 for shield --

22 MALE PARTICIPANT: Yes. We don't even  
23 know if Unit 4 can hold water.

24 MALE PARTICIPANT: That's what I'm saying.

25 MALE PARTICIPANT: Will that hold water?

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1 We don't know. But, certainly, putting water on it --

2 MALE PARTICIPANT: (Inaudible) that it  
3 wouldn't.

4 MALE PARTICIPANT: Yes, for some period of  
5 time we've been saying we don't have any confidence in  
6 the integrity of the Unit 4 pool.

7 MALE PARTICIPANT: Well, I think we said  
8 that we think it's dry. And we didn't know why it  
9 wasn't wet. We don't know. But if you (inaudible) and  
10 you let the water decay (inaudible). How does that  
11 happen?

12 MALE PARTICIPANT: Yes. And that was --  
13 two days ago we were getting from the embassy that  
14 they were getting from NISA and Tokyo and TEPPCO, that  
15 they had no confidence in the integrity of the Unit 4  
16 walls. And that was the basis for why we said it was  
17 (inaudible).

18 Now, on the other hand, I'm still getting  
19 pictures of Unit 4 that's some kind of water vapor  
20 around that's coming from --

21 (Simultaneous speech.)

22 MALE PARTICIPANT: So, maybe it can hold  
23 some water. I don't know. The Japanese have been  
24 adamant that they think there's water in there.

25 MALE PARTICIPANT: Yes, we've got about a

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1 half an hour before shift change. I thought it would  
2 be a good time to go back over what we've  
3 accomplished, and what our priorities are.

4 FEMALE PARTICIPANT: The question about  
5 Bechtel, where are we going to get the status of the  
6 equipment from Bechtel? Does anybody --

7 MALE PARTICIPANT: Hey, Fred --

8 FEMALE PARTICIPANT: That's main thing  
9 Chuck said he needed more than anything. Maybe we can  
10 try to find out that.

11 (Simultaneous speech.)

12 FEMALE PARTICIPANT: Status of Bechtel's  
13 equipment, like out of Australia and stuff?

14 FEMALE PARTICIPANT: Chuck said he's needs  
15 to know that. Do we have that information?

16 MALE PARTICIPANT: We're waiting on Chuck  
17 to talk to DART to have it shipped, but it's not ready  
18 to ship (inaudible).

19 FEMALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: That's okay. Chuck  
21 thought there were actions being taken to get it --

22 MALE PARTICIPANT: His question was has it  
23 from Perth.

24 MALE PARTICIPANT: Yes, so that he needs  
25 to be doing something that could make that happen.

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1 MALE PARTICIPANT: (Inaudible) Dart.

2 MALE PARTICIPANT: Have you authorization  
3 de facto to ship the equipment. As of one hour ago,  
4 Bechtel was still working (inaudible).

5 MALE PARTICIPANT: Yes, moving the  
6 equipment (inaudible).

7 MALE PARTICIPANT: I think they're  
8 changing something.

9 MALE PARTICIPANT: Changes like that.

10 MALE PARTICIPANT: (Inaudible).

11 MALE PARTICIPANT: Yes, they ship  
12 different equipment from different locations.

13 (Simultaneous speech.)

14 MALE PARTICIPANT: You know, if we're  
15 going to pay for it --

16 OPERATOR: Jennifer Yule is on the phone.

17 MALE PARTICIPANT: Okay. Jennifer, did  
18 you--

19 MS. YULE: Yes, I fell off. But I think  
20 our conversation is over. Right?

21 MALE PARTICIPANT: Yes, I was just going  
22 to say, I don't think you need to sit on this. We're  
23 back to a work mode now.

24 MS. YULE: Okay, yes. So, I'll just make  
25 sure tomorrow that research is given everything that

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1 you guys were looking for that Chuck asked about.

2 MALE PARTICIPANT: All right. Thanks,  
3 Jennifer.

4 MALE PARTICIPANT: But let me understand.

5 MS. YULE: All right, see you.

6 MALE PARTICIPANT: We're waiting for DART  
7 to give --  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Hey, David?

3 DAVE HARMON: Dave Harmon on the bridge.

4 MALE PARTICIPANT: Okay.

5 DAVE HARMON: Hi, Marty.

6 MALE PARTICIPANT: Dave, how are you?

7 DAVE HARMON: Doing well, thank you. Hey,  
8 I wanted to follow-up on our previous conversation  
9 with, hopefully, some useful information source for  
10 you.

11 MALE PARTICIPANT: Good.

12 DAVE HARMON: When I was up there, your  
13 team told me that you have SIPRNET access.

14 MALE PARTICIPANT: Yes, we do.

15 DAVE HARMON: Okay. There is information  
16 available [REDACTED] that I understand is not  
17 compartmentalized to the point where you cannot -- so  
18 that you could be able to see it. And since this is  
19 an unclear line, I'm going to tell you that it has the  
20 kind of data you were looking for without telling you  
21 what kind of data that is.

22 MALE PARTICIPANT: I could almost guess.

23 DAVE HARMON: Okay.

24 MALE PARTICIPANT: Okay.

25 DAVE HARMON: All right. The --

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1 MALE PARTICIPANT: Is there something I  
2 should -- how do I access that?

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17 MALE PARTICIPANT: Okay.

18 DAVE HARMON: Now, the NREOC has been  
19 looking at some of the data here, and there is some  
20 historic data, as well as current data. So, it will  
21 show you a little bit of what you're looking for-- you  
22 were talking to me about before in terms of before and  
23 after, or changing with time kind of stuff.

24 MALE PARTICIPANT: Yes.

25 DAVE HARMON: So, again, very useful

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1 information that I picked up when I came here to the  
2 NRECC.

3 MALE PARTICIPANT: Excellent. Thank you  
4 for the tip.

5 DAVE HARMON: The fellow I'm looking at  
6 here is on the phone line with some folks trying to  
7 figure out how to navigate it, because we have some  
8 printouts from it, and they were generated from  
9 somebody else. So, we are having a little bit of  
10 problem with that now. So, I decided to call you with  
11 this information so you could start to get set up to  
12 go look at this. But we might be able to push some  
13 additional information to you through Mr. Bell in  
14 terms of how to navigate the page.

15 MALE PARTICIPANT: Great, thanks.

16 DAVE HARMON: All right.

17 MALE PARTICIPANT: Now, are you working  
18 with Tom Roberts?

19 DAVE HARMON: I have been, yes. He's not  
20 here right now.

21 MALE PARTICIPANT: Okay. Because he put in  
22 a call to me earlier today. I'm just going through my  
23 email.

24 DAVE HARMON: Okay.

25 MALE PARTICIPANT: This would have been

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1 somewhere around 4:00 this afternoon.

2 DAVE HARMON: I did talk with Tom in that  
3 time frame.

4 MALE PARTICIPANT: Okay. I don't know that  
5 it's worth waking him, since he had a call in to me.

6 DAVE HARMON: The --

7 MALE PARTICIPANT: Is there a way to leave  
8 a message there for him that I can be reached from  
9 7:00 to 7:00 here in our Ops Center?

10 DAVE HARMON: 7 p.m. to 7 a.m.?

11 MALE PARTICIPANT: 7 a.m.

12 DAVE HARMON: All right. I will leave him  
13 that message.

14 MALE PARTICIPANT: All right.

15 DAVE HARMON: All right.

16 MALE PARTICIPANT: Thanks again for this  
17 tip.

18 DAVE HARMON: You're welcome. Again, it's  
19 interesting. It -- I'm trying to -- again, the types  
20 of stuff we were talking about is represented on some  
21 of the information there.

22 MALE PARTICIPANT: Okay. As soon as my  
23 folks that have access to that room, where that  
24 equipment is kept, we'll get on it.

25 DAVE HARMON: All right. Appreciate that,

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1 and we'll push some more information in terms of how  
2 to navigate here, and hopefully get you set up.

3 MALE PARTICIPANT: All right. Thanks,  
4 Dave.

5 DAVE HARMON: Thank you, Marty.

6 MALE PARTICIPANT: All right. Have a good  
7 night.

8 DAVE HARMON: You, too.

9 MALE PARTICIPANT: Bye now.

10 DAVE HARMON: Bye-bye.

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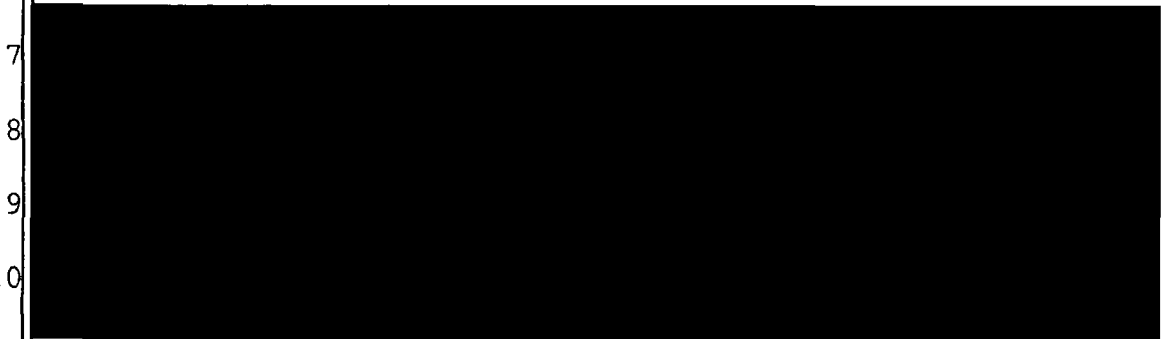
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1 MALE PARTICIPANT: I'm going to try it  
2 here.

3 MALE PARTICIPANT: Okay.

4 MALE PARTICIPANT: If I can't get it here,  
5 then I'll take it back (inaudible).

6 MALE PARTICIPANT: Okay.



11 MALE PARTICIPANT: Oh. Well, he was just  
12 trying to log on here. He has a terminal in the --

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Oh, great.

15 MALE PARTICIPANT: I guess he's got to get  
16 more directions.

17 MALE PARTICIPANT: Point to point.

18 MALE PARTICIPANT: Generally (inaudible)  
19 your browser.

20 MALE PARTICIPANT: Yes, I would think. How  
21 are you doing?

22 MALE PARTICIPANT: I'm trying to get --  
23 there should be nobody on.

24 (Background conversations.)

25 MALE PARTICIPANT: It says push down.

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MALE PARTICIPANT: All right.

MALE PARTICIPANT: All the conditions stay  
the same.

1 (CONFERENCE CALL INITIATED)

2 OPERATOR: Mr. Casto is on the ET bridge.

3 MALE PARTICIPANT: Hi, guys.

4 MALE PARTICIPANT: Hey, Chuck, I'm going  
5 to have to walk over there it looks like and tell  
6 them. They're not monitoring it.

7 CHUCK CASTO: Okay.

8 (Background conversations.)

9 CHUCK CASTO: They're very diplomatic,  
10 Damon. I'm reading your email there.

11 MALE PARTICIPANT: Very unusual to be --

12 CHUCK CASTO: (Laughing.)

13 MALE PARTICIPANT: I felt like  
14 (inaudible). I'm not known for (inaudible).

15 CHUCK CASTO: (Laughing.) Oh, Joe. Joe is  
16 the man, let me tell you. Joe is from Atlanta. Joe  
17 can do anything.

18 (Simultaneous speech.)

19 CHUCK CASTO: Joe is the man. He's from  
20 Atlanta. And he and I have a mutual buddy. Joe can  
21 make --

22 (Background conversations.)

23 CHUCK CASTO: What's your last name, Joe?

24 JOE HUBERT: Hubert.

25 CHUCK CASTO: Hubert. When I want to see

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1 John, I want to make sure I tell him who has  
2 (inaudible).

3 (Background conversations.)

4 MALE PARTICIPANT: Do you want to hear any  
5 more about the spent fuel pool, and they recognize the  
6 dire position they're in. And do they need more  
7 information or not? Do we have any more information,  
8 analysis? Can we help with [REDACTED]

9 [REDACTED]  
10 [REDACTED]  
11 CHUCK CASTO: I think with a [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]

15 MALE PARTICIPANT: Yes, we'll do that  
16 whenever we can.

17 CHUCK CASTO: Right. He's our [REDACTED]  
18 expert.

19 MALE PARTICIPANT: I don't know about  
20 that.

21 (Simultaneous speech).

22 MALE PARTICIPANT: He's got the [REDACTED]  
23 [REDACTED] whatever?

24 MALE PARTICIPANT: (Inaudible) relative to  
25 their view, find cars and people. The Army, they're

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1 not looking (inaudible).

2 CHUCK CASTO: They said it would take days  
3 to analyze --

4 MALE PARTICIPANT: (Inaudible) that's hot.


5 MALE PARTICIPANT: That's right.

6 MALE PARTICIPANT: That could be something  
7 to kill.

8 MALE PARTICIPANT: Right. Well, they were  
9 sending up another chopper over flight with Japanese.

10 And when they mentioned that to us, we said load it  
11 up with whatever you can in terms of instrumentation,  
12 even if you -- anything that's available. You may not  
13 think you need the data now, but if you collect it, it  
14 can come back to us.

15 (Background conversations.)

16 MALE PARTICIPANT: 

17 

18

19

20 (Simultaneous speech.)

21 CHUCK CASTO: The problem, I guess -- you  
22 think that's going to work?

23 MALE PARTICIPANT: I do.

24 MALE PARTICIPANT: Well, how long is it  
25 going to last?

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1 MALE PARTICIPANT: It'll get us water in  
2 the pool. You can fill up the pool with it. Get some  
3 more fire --

4 CHUCK CASTO: Well, what helped us -- is  
5 this system going to help, or not help that we're  
6 building?

7 MALE PARTICIPANT: You know (inaudible).  
8  
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16 MALE PARTICIPANT: Yes.

17 CHUCK CASTO: Diesel fuel.

18 MALE PARTICIPANT: And then the rest of  
19 the problem (inaudible).

20 CHUCK CASTO: Yes, they had a fire truck  
21 they ran out --

22 MALE PARTICIPANT: They also had an issue  
23 with the pond.

24 (Simultaneous speech.)

25 CHUCK CASTO: So, are we okay with the way

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1 we're headed, or not?

2 MALE PARTICIPANT: Okay, get that fire  
3 (inaudible).

4 CHUCK CASTO: Mechanical system. I think  
5 we've got (inaudible) --

6 OPERATOR: Are you still there, Mr. Casto?  
7 Mr. Casto?

8 (Simultaneous speech.)

9 CHUCK CASTO: Well, also, if we Zirc fire  
10 there's going to be any -- that's why --

11 MALE PARTICIPANT: That's interesting. I  
12 don't (inaudible).

13 CHUCK CASTO: I can tell you what happened  
14 at PACS. I was there for --

15 (Simultaneous speech.)

16 CHUCK CASTO: No, they had a Zirc fire.  
17 They shattered that fuel.

18 MALE PARTICIPANT: This one here is  
19 (inaudible).

20 CHUCK CASTO: Hello? Are we on?

21 MALE PARTICIPANT: Yes, we're on.

22 CHUCK CASTO: Okay. Sorry. This is  
23 Chuck. Who's on the bridge?

24 MALE PARTICIPANT: Marty, Roy.

25 CHUCK CASTO: Okay. I'm sorry. I just --

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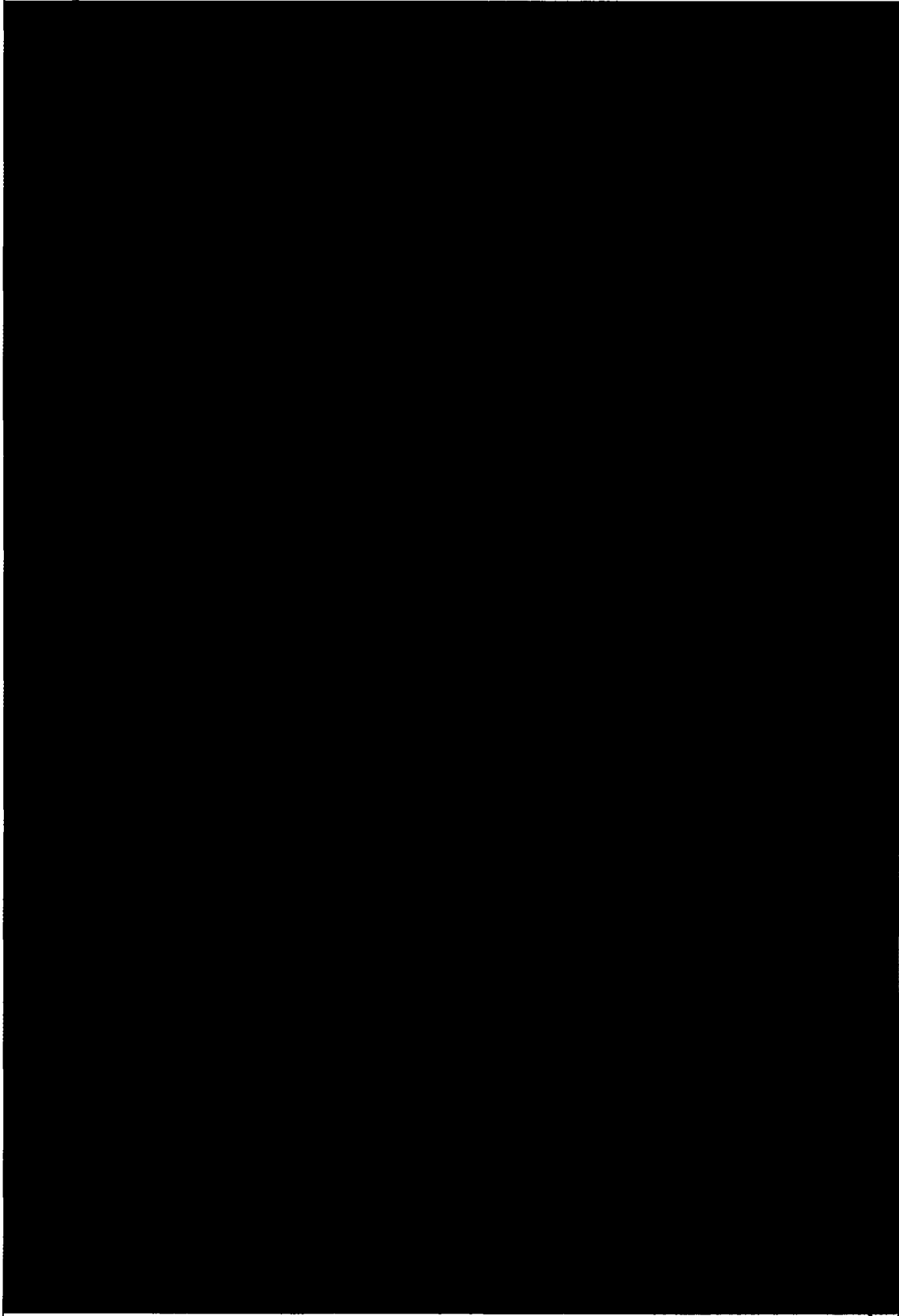
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1 we wanted to get anything that there was from you  
2 guys, and maybe share a little bit of a shift in the  
3 dynamic over here.



5

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22 MALE PARTICIPANT: All right.

23 CHUCK CASTO: The only other maybe two  
24 significant items from us. One, we just got the green  
25 light from AID, DART and AID, and I don't -- for the

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1 equipment list, I don't know exactly how -- I don't  
2 know that they were extremely impressed with our  
3 arrangement or logistics, but we did the best we  
4 could. We had a C130, and they kind of gave us a  
5 little frown at the C130. We were lifting it with a  
6 C130, and getting it up here from Perth, and they  
7 looked at us like we were amateurs, but that's okay.  
8 At least we had a plan. And they're going to take care  
9 of that. I feel fully confident that they -- yes, and  
10 I was thinking about why that's the case. I'm sorry.  
11 I got distracted. But they're going to get it up here,  
12 that equipment up here without any difficulty.

13 MALE PARTICIPANT: Okay. Now, Pat Highland  
14 who has taken over for RST is telling me that we have  
15 another call at 1:00 a.m. our time, so about an hour  
16 from now to review the design details. So, it sounds  
17 like they're -- that's okay, we can parallel process.  
18 So, if you make arrangements to transfer, we're  
19 finalizing on the design details.

20 MALE PARTICIPANT: We're going to be on  
21 line, and just the RST will be on line, too.

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: Okay, we got it.

24 MALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: Chuck, did you hear

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1 that?

2 CHUCK CASTO: Did we hear that? I got  
3 distracted. I'm sorry, somebody was whispering in my  
4 ear.

5 MALE PARTICIPANT: Design (inaudible) RST,  
6 we'll have somebody on line.

7 CHUCK CASTO: [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 MALE PARTICIPANT: Is that MOD?

12 CHUCK CASTO: We're still talking with  
13 them about adverse -- unintended consequences of that.

14 MALE PARTICIPANT: Chuck, is that MOD who  
15 is doing that now?

16 CHUCK CASTO: Yes. Is that right, MOD?

17 Yes, MOD is doing that now. [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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9 But we think that a pipe system with pumps  
10 intended to do what we want them to do is probably  
11 still useful.

12 So, we went ahead and signed a contract of  
13 do the list. We're trying to do multiple solution  
14 paths, and if the fire trucks don't work, we've still  
15 got our equipment coming. So, if I have to write a  
16 check for the list, we can all collect up money and do  
17 the paperwork.

18 MALE PARTICIPANT: You don't have to eat  
19 much. We'll take it off --

20 CHUCK CASTO: Yes, by the way, we haven't  
21 eaten a whole lot. There's a whole lot of problems  
22 with getting food over here in the embassy.

23 MALE PARTICIPANT: Chuck, you can put in  
24 on his voucher.

25 CHUCK CASTO: I can tell you what -- I can

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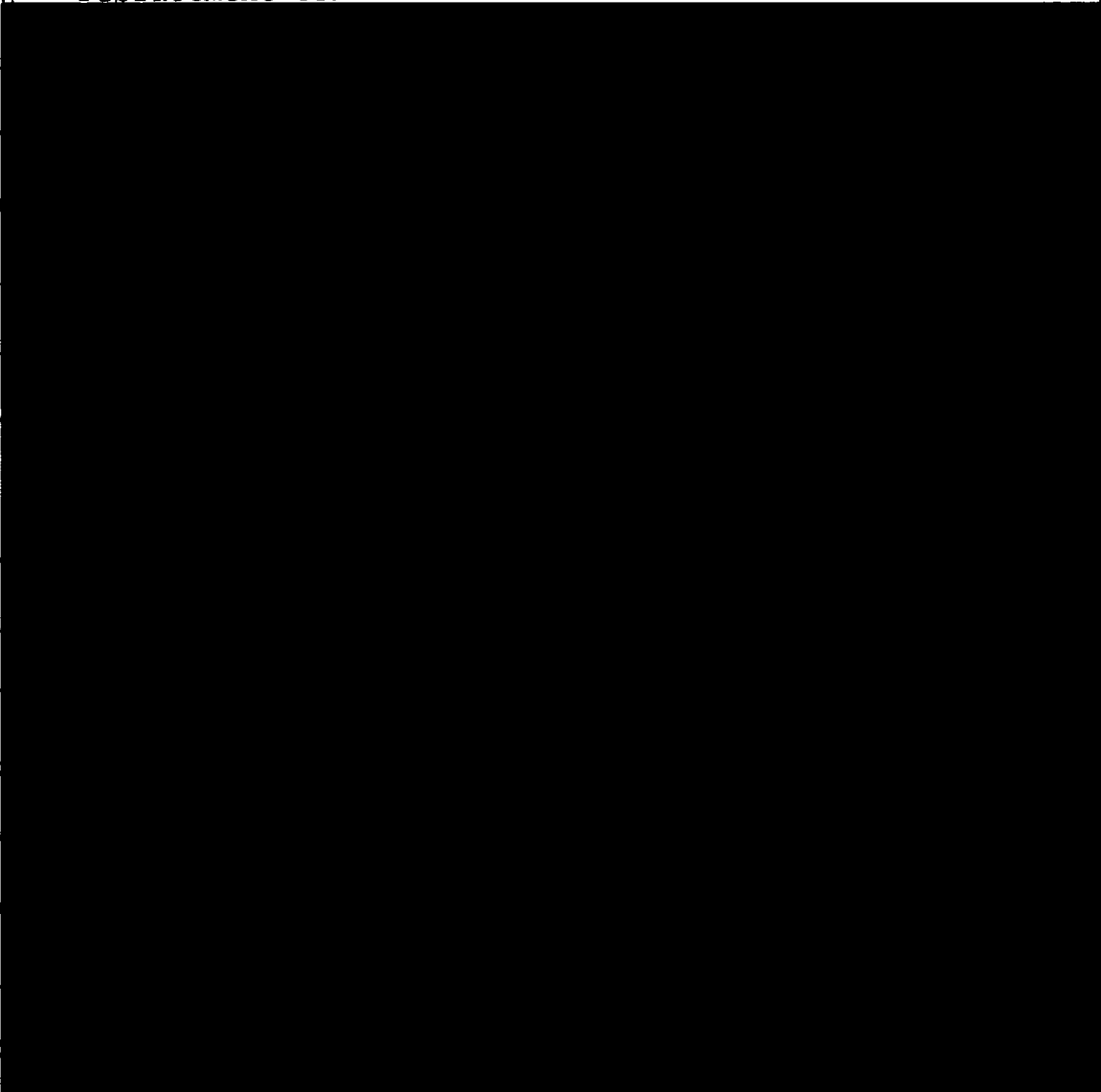
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1 tell you that a ham sandwich and two adult beverages  
2 are going to cost you \$60. But we're doing the best  
3 we can. Jim is sitting here eating, what is that?  
4 Crackers, some kind of crackers. But, anyhow --

5 MALE PARTICIPANT: You guys better  
6 (inaudible) that we're never going to get a  
7 replacement team over there.



23 MALE PARTICIPANT: Chuck --

24 CHUCK CASTO: They take care of people in  
25 disaster relief, they can take care of a few NRC

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1 people.

2 ROY ZIMMERMAN: Hey, Chuck, this is Roy  
3 Zimmerman. I was wondering, do you have a sense from  
4 MOD that they have an action plan with priorities of  
5 where [REDACTED]

6 CHUCK CASTO: Yes. They're certainly  
7 going for pool 3. Their belief -- well, first of all,  
8 Roy, good question. And they want all kinds of intel  
9 from us. I mean, they're really reaching out and  
10 telling us, look, whatever intel you can give us,  
11 because we get nothing from TEPPCO. We don't know  
12 what to look for, so we're basically their eyes and  
13 ears. Okay? They're the lifting, they're the arms and  
14 the legs, but [REDACTED]

15 [REDACTED] but they -- a couple of things.

16 One, they've run some calculations  
17 themselves on margins of spent fuel pools. They think,  
18 on Unit 1, they think they have plenty of time on Unit  
19 1. They think the pool is full, and they think just  
20 natural evaporation, basically, on the pool.

21 On Unit 2, they think they have  
22 significant time, as well, lots of time. Pool 1, they  
23 think they have 128 days. Pool 2 they think they have  
24 40 days, and number 3, they admittedly say number 3 is  
25 dry. Number 4, they think they still have some water

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1 in number 4. But it's highly uncertain. They've  
2 taken a swag at it, but it's highly uncertain what's  
3 in number 4. So, their priority is number 3, because  
4 they know it's empty. And then they'll draw their  
5 attention to number 4 spent fuel pool.

6 ROY ZIMMERMAN: If they had to pick a  
7 spent fuel pool that's lost integrity, would that be 3  
8 or 4?

9 CHUCK CASTO: We can't really tell which  
10 one -- if one of them has lost integrity. It doesn't  
11 -- it's not -- [REDACTED] somebody help me out.

12 Where is Jim? Make sure I'm not lying here. Okay?

13 [REDACTED] we don't -- I don't think we think any  
14 of them have severe structural damage. It looks like  
15 number 4 has walls and a floor, some.

16 JIM: It looks like -- you know, the blast  
17 at 4 was significant enough that certainly the  
18 refueling floor that you'd expect to see in a BW2 has  
19 been compromised. They took out a wall --

20 CHUCK CASTO: Yes, but I'm talking about  
21 the structural integrity of the pool.

22 JIM: The pool is probably there.

23 CHUCK CASTO: And it doesn't look like,  
24 from the intel we have, that there's so much  
25 structural integrity that you can't put some water in

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1 it and maybe maintain water in it. I mean, it looks  
2 like they have enough integrity on 3 and 4 to put  
3 water in, and hold water.

4 JIM: The internal signature still looks  
5 square, but you really don't know if there's a crack  
6 in the pool, whether there's water in it, or not.

7 CHUCK CASTO: Yes. But it's not a major  
8 hole that a fire truck couldn't -- it's not -- you  
9 might have cracks in the fuel pool, and you may lose -  
10 - and that goes to the fact of you may not be able to  
11 shut down the fire truck, because it's leaking out as  
12 fast as the fire truck can put in.

13 ROY ZIMMERMAN: Do you have a sense of  
14 their timing for when they're going to try this  
15 activity with the fire trucks?

16 CHUCK CASTO: [REDACTED] 5  
17 [REDACTED]

18 JIM: Yes, I think they had -- if they  
19 were right, [REDACTED]

20 [REDACTED] They're putting sort of a spider web  
21 together on site.

22 MALE PARTICIPANT: We got a live -- well,  
23 I don't know if it's live, but we've got a television  
24 projection of this right now in front of us. NHK  
25 World is showing the fire trucks. And in the meeting,

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1 we talked to them and we said you know that spent fuel  
2 pool is hot as hell down in there. So, when they  
3 start dumping in these massive amounts of water,  
4 there's going to be some very energetic interaction.  
5 They're going to be -- they should be expecting a  
6 significant source term from this. I mean, if that  
7 water -- if these rods and all that are 1,000, 2,000  
8 degrees, whatever, they're going to get a lot of  
9 energetic reaction from putting in this water, and  
10 they're going to be shooting the source term, et  
11 cetera, so they've just got to -- they've got to do  
12 something, but they have to know that it'll result in  
13 a decent source term coming off.

14 CHUCK CASTO: Marty, I'm sorry. I've got  
15 to go up and see the Ambassador for a minute. You  
16 guys can continue this. I'm sorry, Marty.

17 MALE PARTICIPANT: Okay, we'll talk again  
18 later.

19 CHUCK CASTO: Blow my boss off, but you  
20 sent me here to work with that other guy, so  
21 extraordinary times.

22 MALE PARTICIPANT: He's also told us he's  
23 at retirement age.

24 (Laughter.)

25 MALE PARTICIPANT: Anything else?

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1 MALE PARTICIPANT: Just a question. Chuck  
2 said that they think that Unit 3 pool is dry. Do they  
3 still -- [REDACTED] [REDACTED] do they still see a vapor  
4 plume coming off of Unit 3?

5 MALE PARTICIPANT: Negative.

6 MALE PARTICIPANT: Okay. So, they think  
7 that all of that steam in the path was the evaporation  
8 of the Unit 3 pool, and that that's now completed?

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: We'll shoot you a one-  
11 page fax, if I can figure out to how use the fax form.  
12 It's their calculations. They have no measurements,  
13 but it's their calculations on water, evaporation  
14 rates, the amount of water they should have, what they  
15 think is left, and volume needed, and time margins, et  
16 cetera.

17 MALE PARTICIPANT: Some of the things that  
18 would make that calculation, I would think, a little  
19 uncertain would be is when this earthquake hit, the  
20 slosh of water that might have sloshed out of that  
21 pool might have been pretty significant.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: You don't really -- I  
24 mean, that would be a tough thing to calculate. It's  
25 an assumption.

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: Okay.



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MALE PARTICIPANT: Okay. Anything else?

MALE PARTICIPANT: Not from here.

MALE PARTICIPANT: All right. I think  
we're okay from here right now.

MALE PARTICIPANT: We'll send you some  
McDonalds.

MALE PARTICIPANT: There's plenty of those  
here.

(Laughter.)

MALE PARTICIPANT: All right. We've got it  
all.

MALE PARTICIPANT: Thanks. Take care.

(Conference concluded.)

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