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

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Docket Number: (n/a)

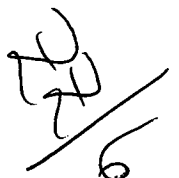
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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

5 + + + + +

6 WEDNESDAY

7 MARCH 16, 2011

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(CONFERENCE CALL INITIATED)

DAN DORMAN: You're talking to the Executive Team.

[REDACTED] (phonetic): Yes, this is [REDACTED] (phonetic) with the U.S. Embassy, Tokyo.

DAN DORMAN: Joe, this is Dan Dorman, the Director of the Executive Team.

[REDACTED] How are you doing?

Tony also has asked me to give you a call about three turbines that are available. We need to get approval to make the purchases and airlift them here.

DAN DORMAN: Yes, we have a written request from TEPCO for up to seven, but we understand that General Electric has identified three of them, that they are available, and we just need to arrange transport.

[REDACTED] Okay. Have they already been purchased or does USAID need to purchase them?

DAN DORMAN: I have not had any information about purchasing. They are just looking for us to transport them.

MALE PARTICIPANT: Yes, USAID was looking for [REDACTED] (phonetic) to send a request back to USAID, so that they could get them on a military

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1 transport and get them over them. I don't think there  
2 was any discussion as far as money changing hands. It  
3 was just getting --

4 [REDACTED] Well, if it is a military  
5 transport, there has got to be a mission assignment  
6 associated with it.

7 MALE PARTICIPANT: Yes, and USAID is going  
8 to take care of that.

9 [REDACTED] There's assignment for the  
10 equipment --

11 MALE PARTICIPANT: That's correct.

12 Fellows, fellows, let's cut this short.

13 I am [REDACTED] Deputy, and I do the  
14 request for MILAIR. So, if this is just a list, then  
15 I'll go ahead and get that started.

16 Is there a point of contact there where I  
17 can have someone call from the military to get weight  
18 and dims and the location to pick up?

19 MALE PARTICIPANT: Hang on a second.

20 (Pause.)

21 MALE PARTICIPANT: Okay, [REDACTED]

22 [REDACTED] Yes, uh-hum.

23 MALE PARTICIPANT: I'm going to give you a  
24 phone number for our guy who is embedded with USAID  
25 here, and he'll connect you to 'Pat Long' (phonetic) I

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1 think with GE, who is going to get you the specs.

2 [REDACTED] Okay.

3 MALE PARTICIPANT: So, the phone number is

4 [REDACTED] --

5 [REDACTED]  
6 MALE PARTICIPANT: [REDACTED] --

7 [REDACTED]  
8 MALE PARTICIPANT: [REDACTED].

9 [REDACTED] Okay.

10 MALE PARTICIPANT: And that would get you  
11 to Jeff Colwaltick (phonetic), who is NRC embedded  
12 with USAID here in Washington.

13 [REDACTED] Okay.

14 MALE PARTICIPANT: And he should be able  
15 to connect you with Pat Long to get those specs.

16 [REDACTED] And Pat Long is with General  
17 Electric, is that correct?

18 MALE PARTICIPANT: Our understanding is  
19 that Pat Long is with USAID here, but he has the  
20 specs.

21 [REDACTED] Oh, Pat Long has the specs?

22 Okay, I've got it.

23 MALE PARTICIPANT: Yes.

24 [REDACTED] All right. Okay. We'll go  
25 ahead and get this going for you guys. Thanks.

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MALE

PARTICIPANT:

Thanks,



Appreciate it.



Uh-hum. Bye-bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: We're just sitting here with -- we've been talking with [REDACTED] [REDACTED] and [REDACTED] about these GE turbines.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: And, you know, after [REDACTED] has been talking (inaudible), what we are kind of thinking here is, I mean, these are massive engines. I mean we are talking 200 tons here. They've got to C5 them over here. And they're going to get them into the airport. They'll probably come into Yokota.

And, then, the question is, what are we going to do with them? I mean, heavy lifters; we've got to make sure the roads are good.

I mean, did GE and TEPCO talk about smaller equipment, thinking, you know, minimum equipment need complements, you know, a couple of RHR pumps and stuff?

These have got to be 5-megawatt, these are going to be 5-megawatt generators. I mean these things are massive.

MALE PARTICIPANT: This is Monty (phonetic).

That's not consistent with the list that we had worked out originally, right?

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1 MALE PARTICIPANT: Right.

2 MALE PARTICIPANT: Right.

3 MALE PARTICIPANT: We were looking at  
4 portables, positive (inaudible, possibly "displacement  
5 compressors") (inaudible) powered compressors.

6 What do they hope to do with these  
7 railroad engines?

8 MALE PARTICIPANT: Well, that's what we're  
9 trying to figure out, sir. We don't really know.

10 Actually, wait one, please.

11 Hey, [REDACTED] that's a hard number, 200 tons,  
12 right, for these things? I mean, you got that from  
13 the source?

14 MALE PARTICIPANT: (inaudible).

15 MALE PARTICIPANT: Yes, that's a pretty  
16 hard number about the size of these things. And,  
17 apparently, you know, basically, they're one generator  
18 per C5. And that's a pretty massive engine.

19 MALE PARTICIPANT: I know. Are they  
20 thinking about the nuclear power plant or are they  
21 thinking about supplying power to the people that are  
22 without power in that region?

23 MALE PARTICIPANT: Well, I'm not sure  
24 about that. That's a good question I hadn't thought  
25 of. Because, apparently, you know, I'm talking to the

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1 AID folks here. The AID folks are telling me that the  
2 -- actually, sir, I need to go and talk to the  
3 Ambassador. I apologize, sir. I'm sorry about that.

4 The Ambassador wants to see us. Excuse me.

5 MALE PARTICIPANT: Okay. Fine.

6 MALE PARTICIPANT: Sorry. All right.

7 Bye-bye.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Hey, how you doing?

MALE PARTICIPANT: Okay. How are you?

MALE PARTICIPANT: Good, good.

Hey, Dan, an update for you, the most  
important being is [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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MALE PARTICIPANT: Okay. I don't know really where we're headed with it, though.

MALE PARTICIPANT: Well, I'm just trying -- we watched TEPCO executives say that they have evacuated the site.

MALE PARTICIPANT: And yesterday we watched TEPCO executives say that the Unit 2 wet well was no longer intact, and by the afternoon they said that it was. So, you know, we have been dealing with conflicting information from those folks for a while.

You know, I don't doubt you. And, I mean, if I was a gambling man, I know where I would put my chips. So, I agree with you.

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1 [REDACTED] [REDACTED] [REDACTED]  
2 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
3 [REDACTED] [REDACTED]  
4 [REDACTED] [REDACTED]  
5 [REDACTED]  
6 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
7 [REDACTED] [REDACTED] [REDACTED]  
8 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
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10 [REDACTED] [REDACTED]  
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18 [REDACTED]  
19 [REDACTED] [REDACTED]  
20 [REDACTED] [REDACTED] [REDACTED]  
21 [REDACTED] [REDACTED] [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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MALE PARTICIPANT: Yes, I agree with that.

MALE PARTICIPANT: Yes, we've got to go.

MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: (Inaudible, possibly  
2 "And it will go to him.")

3 MALE PARTICIPANT: Very well. He'll take  
4 care of that for you.

5 MALE PARTICIPANT: Thanks, Jim.

6 MALE PARTICIPANT: You bet. Take care.

7 MALE PARTICIPANT: Good luck over there.

8 AMY: Hello.

9 MALE PARTICIPANT: Hello.

10 AMY: This is Amy.

11 DAN DORMAN: Hi, Amy. This is Dan Dorman.  
12 I'm the Executive Team Director here at NRC  
13 headquarters.

14 I just wanted to check in. We have a team  
15 of nine folks that are headed over there, and most of  
16 them should have arrived from Heathrow at Norita about  
17 five hours ago.

18 AMY: Correct. I have heard from them.  
19 So, the seven that were on that flight are confirmed  
20 here en route to the hotel. And they do have my phone  
21 number. They have already checked in, and I told them  
22 -- one of them clearly is very familiar with the area.

23 So, I imagine that they'll show up at the Embassy,  
24 but I told them to call me if they had any problems.

25 DAN DORMAN: Well, will you arrange a time

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1 when they (inaudible, possibly "convene together")?

2 AMY: Arrange time, sorry, when they get  
3 here to convene? Is that what you said?

4 DAN DORMAN: Yes. Once they get there, we  
5 would like to get on the phone with them.

6 AMY: Absolutely. Absolutely. Now it  
7 will be a little bit later for -- hold on. I've got  
8 the list here. I did send out a car because I know  
9 there's interest in having Chuck get here very  
10 quickly. I haven't heard yet. It takes quite a while  
11 between Norita Airport and back. So, I haven't heard  
12 yet that he's en route, but I expect he will be.

13 So, I guess the only other one we're  
14 waiting for is Richard DeVercelly, is that right?

15 DAN DORMAN: Yes.

16 AMY: Okay.

17 DAN DORMAN: Amy, let me tell you what I'd  
18 like you to do for us then.

19 AMY: Okay.

20 DAN DORMAN: Once Chuck is checked into  
21 his hotel room and changed, freshened up a little bit,  
22 what I would like to do is convene a meeting with  
23 Chuck and the team members in your offices, so that we  
24 can talk to them by phone.

25 AMY: Okay.

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1 DAN DORMAN: So, if you could set that up  
2 for us, that would be really helpful.

3 AMY: Sure. Absolutely.

4 DAN DORMAN: And give us a little bit of  
5 heads-up as to, once Chuck has landed and he's in  
6 Tokyo, maybe, then, you could establish a time for  
7 that meeting, and, then, we could be here on this end  
8 and ready to receive his call.

9 AMY: Definitely. Can I get your contact  
10 information? I'm sure he has it, but just in case.

11 DAN DORMAN: It's area code 301 --

12 AMY: Uh-huh.

13 DAN DORMAN: -- 816 --

14 AMY: 816.

15 DAN DORMAN: -- 5100.

16 AMY: 5100.

17 DAN DORMAN: That will get you our  
18 Operations Officer and, then, ask to be connected to  
19 the Executive Team.

20 AMY: Executive Team. Okay, great. So,  
21 let me see if I can find out if he's en route now and,  
22 then, get a better sense of when he's going to get  
23 here. I wouldn't anticipate that he'll be at the  
24 hotel before 3:30 p.m. Tokyo time.

25 DAN DORMAN: Right, right. So, that's

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1 five o'clock maybe Tokyo time we could have that phone  
2 call?

3 AMY: Exactly. That's what I was thinking  
4 as well, which would give us a little bit of leeway  
5 for traffic and whatnot, which is the big determining  
6 factor. But let me get a better idea.

7 Can I also email you to confirm? Would  
8 that work?

9 DAN DORMAN: ET07 --

10 AMY: ET07.

11 DAN DORMAN: .hoc@nrc.gov. So,  
12 et07.hoc@nrc.gov.

13 AMY: Okay, et07.hoc@nrc.gov?

14 DAN DORMAN: Yes.

15 AMY: Okay. I will be in touch. And let  
16 me give you my BlackBerry number and email as well.

17 DAN DORMAN: Okay.

18 AMY: So, the BlackBerry number is [REDACTED]

19 DAN DORMAN: Yes.

20 AMY: -- [REDACTED] -

21 DAN DORMAN: Yes.

22 AMY: -- [REDACTED].

23 DAN DORMAN: [REDACTED]

24 AMY: Correct. And my email is asink, so  
25 A-S-I-N-K, @ofda.gov.

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1 DAN DORMAN: So, asink, A-S-I-N-K,  
2 @ofda.gov?

3 AMY: Yes, just to confirm, it's O-F, as  
4 in Frank, ofda.gov.

5 DAN DORMAN: O-F, as in Frank, D-A.gov?

6 AMY: Correct.

7 DAN DORMAN: Got it.

8 AMY: Okay, great. Then, I will be in  
9 touch.

10 DAN DORMAN: Thanks, Amy.

11 AMY: All right. Thanks. Bye-bye.

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(CONFERENCE CALL INITIATED)

DAN DORMAN: Good afternoon, Chuck. Are you there, Chuck?

CHUCK CASTO: This is Chuck.

DAN DORMAN: Hey, Chuck, this is Dan Dorman.

CHUCK CASTO: Hey, Dan, how you doing?

DAN DORMAN: I'm doing all right. How are you?

CHUCK CASTO: I'm great.

DAN DORMAN: We sent over a couple of hours ago to [REDACTED] a one-pager on NRC's understanding of current conditions at Fukushima Daiichi (inaudible, possibly "Nuclear Center"). Have you seen that?

CHUCK CASTO: I haven't seen it yet. We were just meeting with [REDACTED] a moment ago, but we hadn't gotten to that yet.

DAN DORMAN: Okay. All right. Our understanding is still pretty much consistent with that. I guess our biggest challenge continues to be getting reliable information from (inaudible, possibly "staff") [REDACTED]

[REDACTED]

[REDACTED]

1 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
2 [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
3 [REDACTED] [REDACTED] [REDACTED]  
4 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
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8 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
9 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
10 [REDACTED]  
11 [REDACTED]

12 CHUCK CASTO: Yes.

13 DAN DORMAN: But one of the things that --

14 CHUCK CASTO: Well, go ahead. No, go  
15 ahead.

16 DAN DORMAN: Okay. One of the areas that  
17 we have a question that's very important to our  
18 assessment is the current condition at Unit 4. The  
19 media continues to report on the fire at Unit 4. I'm  
20 looking at an MSNBC blurb right now that says that it  
21 involves the outer shell of the containment building.  
22 We've been assuming that it involves the fuel in the  
23 pool. And so, any clarification we can get as to the  
24 root of that fire and any threat that it may pose to  
25 the fuel in the pool is one important area.

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1 CHUCK CASTO: Yes.

2 DAN DORMAN: One other thing we've gotten,  
3 since we sent that one-pager, we got a report from  
4 IAEA regarding the decreasing level at Unit 5, and  
5 it's not specific as to whether it's talking about the  
6 pressure vessel or the spent-fuel pool, but it does  
7 say that at that time it was a 47-meter decrease over  
8 a five-hour period, and it gives the amount of water  
9 over the fuel remaining. And extrapolation of that  
10 weight of decreasing level would have fuel being  
11 uncovered about five hours from now at Unit 5.

12 But it also reported that they would be  
13 using an operational diesel generator for Unit 6 to  
14 provide water to Unit 5. And that was a new piece of  
15 information to us, that there was an operational  
16 diesel generator.

17 CHUCK CASTO: Yes, I had heard that  
18 Daiichi they had evacuated out 10 kilometers.

19 DAN DORMAN: Daiene was evacuated 10  
20 kilometers is our understanding. Daiichi, which is  
21 the stricken plant, was evacuated to 20 kilometers --

22 CHUCK CASTO: Right.

23 DAN DORMAN: -- and was sheltering out to  
24 30 kilometers.

25 CHUCK CASTO: Yes.

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1 DAN DORMAN: And, then, I guess the other  
2 piece, we had had some conversation with Jim Trapp  
3 earlier. There were media reports that all the  
4 workers had been evacuated from the site. Our current  
5 understanding is that they remain at the site, but  
6 they were evacuated from the four damaged units and  
7 are available with emergency dose limits to perform  
8 actions as needed.

9 On that one-pager, it says we understand  
10 that all the staff have been evacuated from the site.  
11 We've tempered that a little bit.

12 Those are some of the challenges and the  
13 current things that we're looking at in terms of  
14 information needs.

15 CHUCK CASTO: Well, we'll get you whatever  
16 we can get. You know how information is.

17 DAN DORMAN: Yes.

18 CHUCK CASTO: But who's with you? Is it  
19 just you?

20 DAN DORMAN: Yes. No, it was when we  
21 first brought you up, but I've got Marty Virgilio, Rob  
22 Lewis, Chris Miller, Tom Blount, and some other  
23 supporting staff in the room here.

24 CHUCK CASTO: Yes, we'll get you whatever  
25 information we can get. As you know, the

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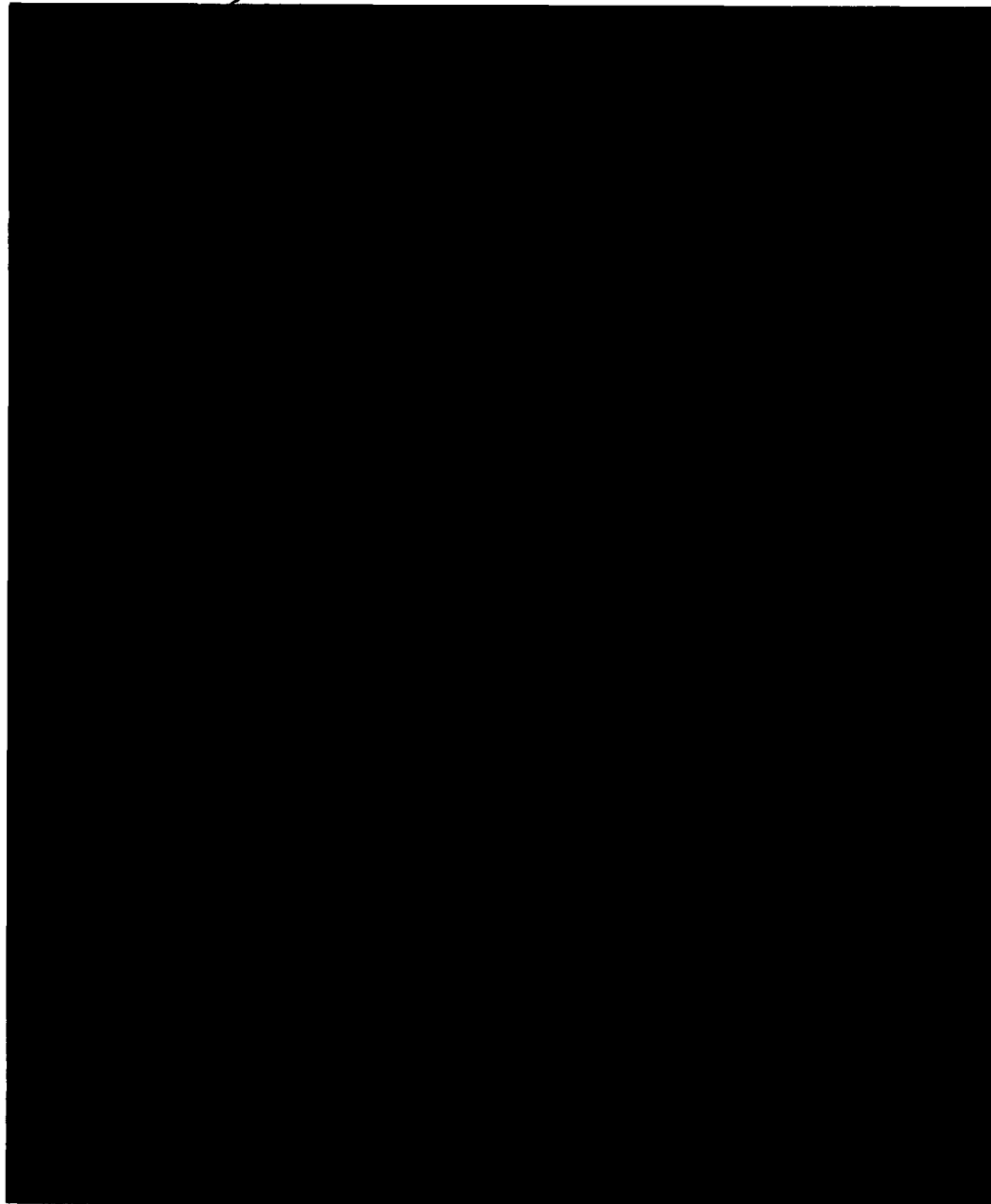
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1 communications channels are very limited.

2 DAN DORMAN: Yes.



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21 CHUCK CASTO: Right. And, also, I would  
22 say that, from what I've gotten from the Embassy here,  
23 is the Ambassador, who I haven't talked to yet, but,  
24 you know, they're worried about the 170,000 Americans  
25 over here. That's their primary goal. They're here

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1 to protect them.

2 DAN DORMAN: Right.

3 CHUCK CASTO: And that's their focus. So,  
4 you know, if we're here to support the Ambassador, I  
5 think, you know, that's got to be our focus.

6 MARTY VIRGILIO: Yes, Chuck, this is  
7 Marty. I mean, clearly, when we think about our  
8 priorities, that is the top priority that we've listed  
9 down, as we have outlined what are our objectives in  
10 Japan right now. And, clearly, the top priority is  
11 support to the Ambassador and the U.S. citizens there.

12 I would say second is support for the Japanese  
13 Government in the recovery of these reactors. And,  
14 then, third is gathering insights and lessons learned  
15 for us, so that we can assess the implications for our  
16 operating fleet and applicants.

17 CHUCK CASTO: Absolutely. Right.

18 MARTY VIRGILIO: So, think about it in  
19 those terms.

20 CHUCK CASTO: Right.

21 MARTY VIRGILIO: Just to switch subjects a  
22 little bit, at Jim's request, Jim Trapp's request, we  
23 have worked with INPO to try to get you access to  
24 daily or periodic meetings that are being conducted  
25 between WANO and TEPCO.

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CHUCK CASTO: Right.

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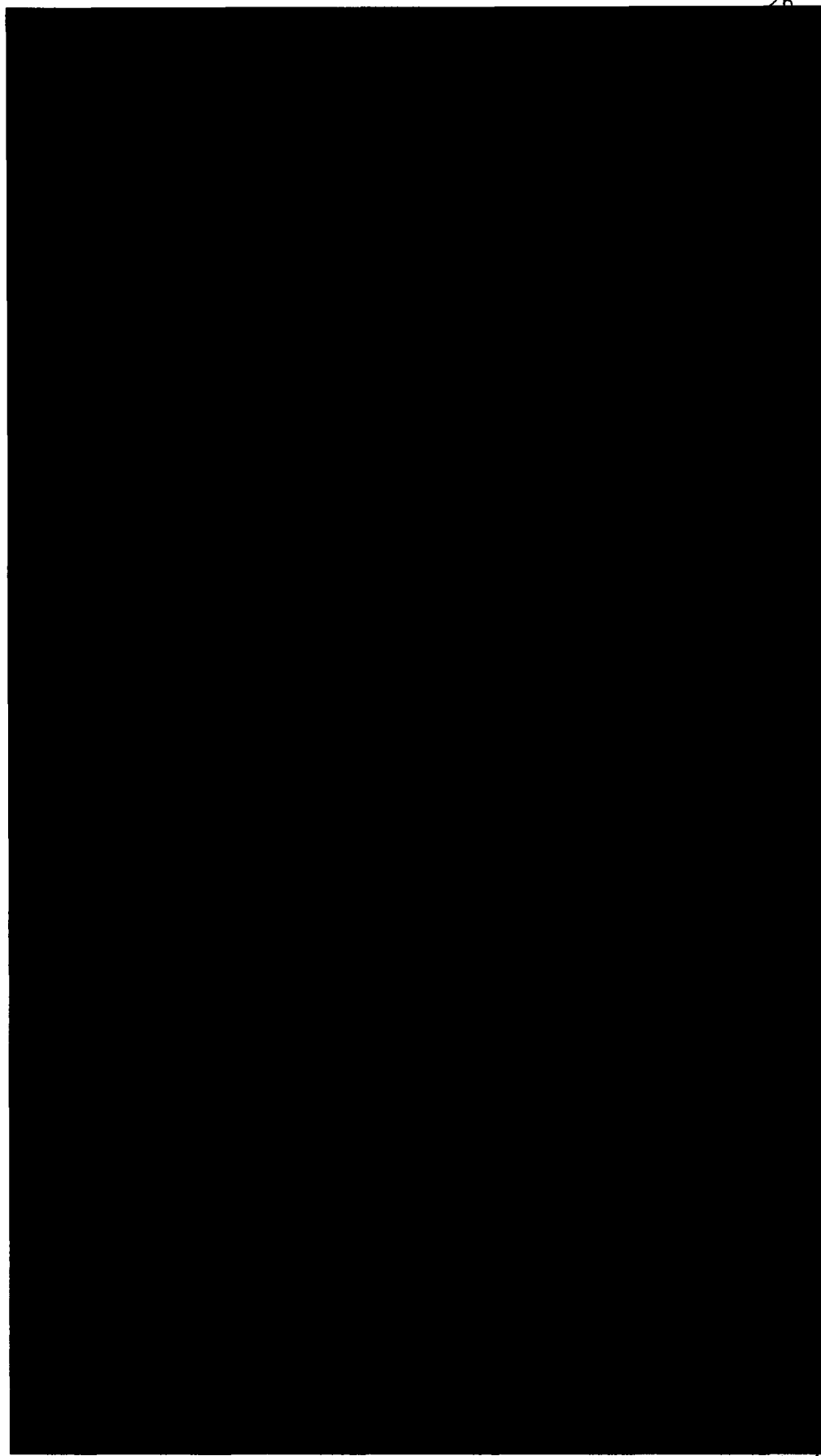
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1 pool at Unit 4.

2 But, as I said, we are seeing reports that  
3 say the shell of the building is burning, not the  
4 spent-fuel pool.

5 MALE PARTICIPANT: Yes, I think that we've  
6 got to project at the next level of event, the next --  
7 you know, what we are doing right now is kind of  
8 reacting to what we hear and saying, okay, if that's  
9 true, then here is the outcome. But we've got to  
10 maybe think one or two steps ahead, and that way we  
11 could keep more stable on our recommendations.

12 DAN DORMAN: Well, and I think over the  
13 last 24 hours the big items have been that Unit 4  
14 spent-fuel pool, and there was a period 24 hours ago  
15 where Jim and Tony were telling us that their  
16 assessment was that we had X vessel material in Unit  
17 2. And that was driving us 24 hours ago.

18 CHUCK CASTO: Right. And that's what I'm  
19 trying to say, Dan. If we keep responding to that,  
20 you know, to the anecdotal -- or, you know, what if we  
21 just assume that there's a zirc (phonetic) fire in  
22 that spent-fuel pool? What's the source-term there?  
23 And what would be the outcome of, you know, whether  
24 there is or isn't a fire, if there was, what's the  
25 outcome?

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1 DAN DORMAN: If there was, what you've got  
2 that attachment is that we would be recommending  
3 evacuations out to 50 miles, which is, obviously, a  
4 lot -- I don't know that you're aware that what  
5 they're -- I guess we already talked about it. Twenty  
6 kilometers is what they've currently evacuated. It's  
7 about 12 miles.

8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]

14 CHUCK CASTO: Yes, the only thing I'm  
15 reacting to -- and I hope we're just having a dialog  
16 here; I'm just trying to have a dialog with us all, so  
17 we can get aligned. [REDACTED]

18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]

25 But whatever we can do, just think about

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1 whatever we can do to stabilize our path here.

2 MALE PARTICIPANT: Well, Chuck, at this  
3 point we're really looking for you to help direct us  
4 --

5 CHUCK CASTO: Right.

6 MALE PARTICIPANT: -- you know, based on  
7 what are your needs, what do you think we ought to be  
8 doing --

9 CHUCK CASTO: Right.

10 MALE PARTICIPANT: -- in terms of those  
11 projections.

12 I mean, the other piece of that document  
13 that you got is, assuming, you know, looking ahead and  
14 assuming that we lose Reactor 2, what will be the dose  
15 consequences of release from Unit 2?

16 CHUCK CASTO: Yes.

17 MALE PARTICIPANT: So, we're trying to  
18 project ahead --

19 CHUCK CASTO: Right.

20 MALE PARTICIPANT: -- and do what you're  
21 suggesting.

22 CHUCK CASTO: Yes, and I think that's  
23 perfect. I think you can go to the Prime Minister or  
24 the Ambassador and say, "Look, we don't know if you're  
25 going to lose Unit 2 or not, but if you do, here is

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1 the outcome."

2 MALE PARTICIPANT: And that's what we hope  
3 we have given you in that piece of paper.

4 CHUCK CASTO: Yes. Yes, and I don't know  
5 how they're getting the other anecdotal, when they  
6 hear something and running us over there, but, you  
7 know, we're just getting stood up here, and I'll  
8 figure that out. But, you know, what's causing that  
9 whipsaw, but I would rather give the bounding scenario  
10 and some likely scenarios and move to something more  
11 stable.

12 But, anyhow, I just wanted to air that out  
13 with you. That was just my initial impression. I'll  
14 leave it at that.

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CHUCK CASTO: [REDACTED]

[REDACTED]

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1 MALE PARTICIPANT: No, we heard they  
2 weren't. And what we did is we put together a set of  
3 bullets of --

4 CHUCK CASTO: Yes.

5 MALE PARTICIPANT: -- [REDACTED] [REDACTED] [REDACTED] [REDACTED]

6 [REDACTED] [REDACTED]  
7 CHUCK CASTO: I'm sorry --

8 MALE PARTICIPANT: Go ahead.

9 CHUCK CASTO: I'm sorry, Marty. I meant

10 [REDACTED]  
11 MALE PARTICIPANT: Oh. Yes, well, what we  
12 heard, we heard something that is kind of halfway in  
13 between, and this may be the same thing that you're  
14 hearing. We heard at the [REDACTED] --

15 CHUCK CASTO: Right.

16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 CHUCK CASTO: Absolutely, and we'll work

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1 on that and see what the holdup is there.

2 MALE PARTICIPANT: Yes.

3 CHUCK CASTO: And that's something I can  
4 work with the Ambassador and, you know, say, "Hey,  
5 look, this is important to get a more precise estimate  
6 of where we're going with the Americans."

7 MALE PARTICIPANT: Yes, and we have a  
8 document that we sent to [REDACTED] [REDACTED]. We could send it  
9 to you. Are you --

10 CHUCK CASTO: I'll get it from [REDACTED]  
11 was in the conference room just as I walked out. And  
12 so, I'll get it from [REDACTED]

13 MALE PARTICIPANT: Okay. Sounds good.  
14 All right.

15 And until you tell us otherwise, we'll  
16 continue to send things to [REDACTED] email address.

17 CHUCK CASTO: Yes, and I think we should  
18 be stood up with a working conference room certainly  
19 by morning our time. They're wiring that conference  
20 room now with computers and internet and all that.  
21 So, eventually, we'll have access to it. Then, you  
22 know, we can cc all of us.

23 MALE PARTICIPANT: Okay. So, I think for  
24 right now let's just check. Did we send this to [REDACTED]

25 There's a couple of pieces of paper we

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1 probably ought to send you via [REDACTED] which one is our  
2 latest Operations Center status update. We'll send  
3 you also a two-pager which would have been titled,  
4 "NRC Talking Points".

5 CHUCK CASTO: Okay.

6 MALE PARTICIPANT: We've been talking  
7 about this dose assessment that we've sent to [REDACTED]  
8 And the other piece is what Chris was just talking  
9 about, the one-pager on why we need [REDACTED]

10 So, there are four things that I would  
11 like you to make sure you have --

12 CHUCK CASTO: Yes, I'll do it.

13 MALE PARTICIPANT: -- just for your  
14 background.

15 CHUCK CASTO: Right, right. And we should  
16 be, we're just about all here. We have one member of  
17 the group I think coming in soon or is in. And, then,  
18 we have a conference room. And we have KI. We have  
19 dosimeters. We have TLDs. So, we're in good shape  
20 with team protection, that kind of stuff.

21 And the Embassy has been really good about  
22 getting us supplies and printers and all that. So,  
23 there's been outstanding support.

24 MALE PARTICIPANT: Good, good.

25 MALE PARTICIPANT: Just as an aside, I'm

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1 personally a little worried about Jim and Tony and the  
2 hours that they've been working.

3 CHUCK CASTO: Yes, we've got to get them  
4 some crew rest.

5 MALE PARTICIPANT: Yes, yes.

6 CHUCK CASTO: And we've got to figure that  
7 out for everybody because we can't all start -- we've  
8 all flown over here. We can't all start and just work  
9 24 hours. So, one of the things in my organization of  
10 the team, I've got to figure who I can get crew rest  
11 and cycle in and out people.

12 MARTY VIRGILIO: Yes. I personally want  
13 to work the hours you're working, okay?

14 CHUCK CASTO: Right.

15 MARTY VIRGILIO: That's why I'm here now,  
16 and I'll shift to adjust to be with you.

17 CHUCK CASTO: Okay. And, Marty, just in  
18 case, I know I can get to you through the WHO  
19 (phonetic), but can I get your cell, your personal  
20 cell phone number?

21 MARTY VIRGILIO: Sure. [REDACTED] --

22 CHUCK CASTO: All right.

23 MARTY VIRGILIO: -- [REDACTED] --

24 CHUCK CASTO: Okay.

25 MARTY VIRGILIO: -- [REDACTED]

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1 CHUCK CASTO: [REDACTED] All right.

2 MARTY VIRGILIO: Bill Borchardt and I have  
3 talked, and so I sort of left my role back on the 17th  
4 floor --

5 CHUCK CASTO: Right.

6 MARTY VIRGILIO: -- and I'm here to  
7 support you.

8 CHUCK CASTO: Well, and I do want to get a  
9 briefing from Jim and Tony and, then, get them to the  
10 hotel, and they can be part of the second shift that  
11 we -- I'm fine now. I'm sure I'll work for quite some  
12 time. But I do need to worry about crew rest. I'm  
13 going to take the duplication that we have and split  
14 that in half, and we'll just work to allow shifts for  
15 each of the disciplines that we have, something like  
16 that.

17 MALE PARTICIPANT: Okay. I'm going to  
18 assume that you're going to try to work the days,  
19 daytime in Japan.

20 CHUCK CASTO: Yes.

21 MALE PARTICIPANT: That is probably where  
22 you would be most effective.

23 CHUCK CASTO: Yes. Hey, I get to put  
24 Marty on midnight shift. That's great.

25 (Laughter.)

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1 MARTY VIRGILIO: That's okay. I recognize  
2 the alternative.

3 CHUCK CASTO: Yes.

4 MARTY VIRGILIO: I could be there and you  
5 could be here.

6 (Laughter.)  
7  
8  
9  
10  
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12  
13



14 MALE PARTICIPANT: Right.

15 CHUCK CASTO: So, I think I got the  
16 priorities, and I will convey that to the team. And  
17 eventually, I think what we're thinking is that we  
18 would keep a live connection, at least for a while,  
19 right to the Ops Center from our conference room, when  
20 we get it stood up. So, we would establish a bridge  
21 to the conference room.

22 MALE PARTICIPANT: Okay. That would be  
23 great.

24 CHUCK CASTO: And so, that would be  
25 helpful. We'll just do a bridge right to the

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1 conference room.

2 Yes, hopefully, we are getting information  
3 from the back door from WANO -- I don't know if we are  
4 -- out of those meetings that they're having.

5 MALE PARTICIPANT: If you're not, let me  
6 know and we'll use [REDACTED]

7 CHUCK CASTO: Yes. I mean, if you -- I  
8 don't know if you all have been getting any  
9 information out the back door.

10 MALE PARTICIPANT: No. No.

11 CHUCK CASTO: That may be a way, if we  
12 can't actually get a seat at the table, if they would  
13 be willing or we find it acceptable to get the  
14 information out the back door --

15 MALE PARTICIPANT: Yes, yes.

16 CHUCK CASTO: -- from WANO, and get them  
17 feeding us, after they leave the meeting, they call us  
18 and give us a briefing, that's better than watching  
19 CNN.

20 MALE PARTICIPANT: Yes, agreed.

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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1 CHUCK CASTO: Well, and I don't know,  
2 Marty, if you want to think about having an executive  
3 call with IAEA and INPO and DOE, you know, the federal  
4 family plus INPO or WANO, and just strategize a little  
5 bit. Maybe closer connections between the industry  
6 and us and pool what knowledge there is and what  
7 resources there are.

8 MALE PARTICIPANT: [REDACTED] opened that  
9 door for us today, and, as a matter of fact, something  
10 for you to consider: he has made the offer to send  
11 somebody over there to work for you.

12 CHUCK CASTO: I actually think that that's  
13 a good idea.

14 MALE PARTICIPANT: I'll close with [REDACTED]  
15 then, tomorrow --

16 CHUCK CASTO: Yes.

17 MALE PARTICIPANT: -- or later today.

18 CHUCK CASTO: I think there's a lot of  
19 industry resource out there and knowledge that we  
20 could harvest, and rather than -- I mean we're all  
21 smart people, but the more eyes on the thing that we  
22 can get and the experience, you know, particularly  
23 from our Mark 1 sources -- and I'll tell you the other  
24 place, Marty. You know, the Perspectives in Reactor  
25 Safety Course, that 800 course and that NUREG, you

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1 know, I don't know if you all have been looking at  
2 that or not, but it is dead-on. I mean it follows  
3 this event dead-on. Everything that's going on is in  
4 that NUREG. You can walk right down through it and  
5 see all the considerations.

6 And MELCORE, MAAP, all those computer  
7 models can be brought to bear on this from the Lab,  
8 from the National Lab. So, to hook in the National  
9 Lab, NEL, to do some modeling -- and I don't know if  
10 we have time for that -- but they've already run all  
11 these scenarios, you know, MAAP, and there's a  
12 hundred, well, not a hundred. I'm sorry. There are a  
13 number of computer models that have already modeled  
14 this event for BWR Mark 1 containment.

15 And I read the whole NUREG, which is quite  
16 lengthy, on my flight over here. And that thing just  
17 walks down all these events perfectly. So, if we  
18 don't have that in the Ops Center and people are not  
19 briefed on it, or if we have an instructor for the 800  
20 course to come into the Ops Center, that would be  
21 helpful.

22 And, then, look at the references in that  
23 NUREG and those core codes, you know, because they've  
24 got codes that will model the molten core in the  
25 drywell.

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1 MALE PARTICIPANT: You know, Pete Lyons in  
2 DOE has been just itching to find a niche here. And  
3 if there's some specific scenario you want INEL to  
4 run, just let us know and we can reach out to Pete.

5 CHUCK CASTO: I would just ask for their  
6 recommendations. You know, they've got all the  
7 science. They have these codes that can run this  
8 event, that have run this event. They ran it for  
9 Peach Bottom. They ran this event for a number of  
10 sites.

11 And, you know, you may just want to reach  
12 out, and we may just want to reach out and ask them  
13 what their recommendations are based on MELCORE, and I  
14 don't know, I can't remember all those code names, but  
15 there's a lot of different ones. Do they have  
16 recommendations about the crust that forms and keeping  
17 water on it, and keeping the right pH, all that stuff.

18 And, you know, if we end up with a molten  
19 core and then you talk about the time for the concrete  
20 to disassociate, you know, that NUREG says it's a  
21 couple of inches an hour, you know. And, of course,  
22 that Mark 1 containment is the worst one of all the  
23 containments we have, and it's literally, you know,  
24 this NUREG tells you that in a station blackout you're  
25 going to lose containment. There's no doubt about it.

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1 But, anyhow, I just would highlight that  
2 that is a valuable resource, that NUREG. I think it's  
3 -- is it 6150, CR-6150, Perspectives on Nuclear  
4 Safety? It completely walks all of this down. It's  
5 already been thought out. It's already been reviewed,  
6 looked at, modeled, everything.

7 So, the one thing the NUREG doesn't really  
8 do is tell you how to stop it, how to mitigate it,  
9 other than keeping water on it.

10 But the Lab may have some recommendations.

11 MALE PARTICIPANT: Right. So, we'll get  
12 the next shift working on that, to engage through Pete  
13 Lyons.

14 CHUCK CASTO: Yes. Yes. So, I would have  
15 somebody from WANO join us to open up that line.

16 MALE PARTICIPANT: Yes, we'll follow up.  
17 That's an action item for the next shift, too. And  
18 ask INPO to identify somebody to come over and join  
19 your team.

20 CHUCK CASTO: And, then, get WANO to brief  
21 us out the back door out of those meetings.

22 MALE PARTICIPANT: Yes. Well, first, I'm  
23 going to try to get you in the meetings. Okay?

24 CHUCK CASTO: Yes, well, yes, that's a  
25 priority, and get us in the EOC. I mean, you know,

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1 that would be the ideal.

2 MALE PARTICIPANT: Yes, that one I'm not  
3 sure I can do.



17 MALE PARTICIPANT: The equipment is and  
18 the people, yes.

19 CHUCK CASTO: Yes.

20 MALE PARTICIPANT: But I'm not sure where.  
21 We think they're at the air base --

22 CHUCK CASTO: FERMAC (phonetic) or  
23 something.

24 MALE PARTICIPANT: Yokota maybe.

25 CHUCK CASTO: I'm sorry, I was talking

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1 here. I'm sorry. Go ahead.

2 MALE PARTICIPANT: They may at the Yokota  
3 Air Base.

4 CHUCK CASTO: Yes, and it's, basically --  
5 it's Allen, right?

6 MALE PARTICIPANT: It's Allen.

7 CHUCK CASTO: Yes, Allen was just telling  
8 me he's part of, basically, a little mini-FERMAC or  
9 something, I think is what it is. And that's what we  
10 need.

11 And, also, you know, we need to get this  
12 team over here, our team, hooked up with DOE in a  
13 FERMAC, so that we can get those readings when they  
14 come. When they start coming in, whenever we get them  
15 flying and they start coming in, then they can feed  
16 that information to our team. And we're going to need  
17 somebody who can analyze that information and help us  
18 independently verify protective action  
19 recommendations.

20 MALE PARTICIPANT: See, this is why, you  
21 know, ideally, your role, if you can get the  
22 Ambassador to endorse it, would be to coordinate all  
23 of the U.S. Government activities, or at least be on  
24 some sort of a pivot point for this.

25 CHUCK CASTO: Right. Right. Yes. See,

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1 we need the fed family, you know, the fed family  
2 organization, and, then, bringing in WANO. I keep  
3 wanting to say "INPO". But get WANO plugged in and  
4 get the National Labs plugged in.

5 MALE PARTICIPANT: Yes.

6 CHUCK CASTO: Particularly, I think, given  
7 that's already been modeled, and I hate to keep  
8 repeating myself, but given that that's already been  
9 modeled, I've got to believe that the Lab can give us  
10 some information.

11 MALE PARTICIPANT: And we'll get that as  
12 an action item for next shift.

13 CHUCK CASTO: Okay.

14 MALE PARTICIPANT: We'll get, yes, we'll  
15 get somebody from INPO to come on over and join you.  
16 And that will be the link to the U.S. industry and  
17 their capability.

18 CHUCK CASTO: Right, right. But, somehow,  
19 we need to --

20 [REDACTED] I need to talk to you guys  
21 like ASAP.

22 CHUCK CASTO: Okay. I've got [REDACTED]  
23 in here; the Special Assistant to the Ambassador needs  
24 to see me here.

25 MALE PARTICIPANT: All right. Before you

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6

1 go, let me make you quickly aware of one other item.

2 CHUCK CASTO: Okay.

3 MALE PARTICIPANT: About 30 hours ago, the  
4 Defense Threat Reduction Agency made available four  
5 pumps that are three hours by ground from the plant,  
6 1200 to 1800 gallons per minute up to 150 psi. As of  
7 about four hours ago, the work from DTRA was those are  
8 sitting on the dock waiting for TEPCO to pick them up.

9 So, they're getting a little frustrated.  
10 They just want to know where to take these things.

11 CHUCK CASTO: Where are they at? Where  
12 are they at right now, the four pumps?

13 MALE PARTICIPANT: I'm not sure where  
14 exactly. I think the folks over in the Embassy know,  
15 but I'm thinking probably in the Akoska (phonetic)  
16 area, but I'm not sure.

17 CHUCK CASTO: Okay.

18 MALE PARTICIPANT: But they're there in  
19 Japan.

20 CHUCK CASTO: Okay.

21 MALE PARTICIPANT: And DTRA is just  
22 waiting for TEPCO to tell them where to take them.

23 CHUCK CASTO: Okay. Well, you know,  
24 there's a lot of other things, there's a lot of other  
25 assets that need to be brought to bear, but I'll worry

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1 about that down the road.

2 MALE PARTICIPANT: Yes. I just wanted to  
3 make you aware of it.

4 CHUCK CASTO: Yes. I think they're going  
5 to need a batch point, a concrete batch point. I  
6 think they're going to need lots of lead. And those  
7 are kind of recovery things down the road, but if we  
8 could --

9 MALE PARTICIPANT: But the pumps we're  
10 thinking can help get water where it's needed.

11 CHUCK CASTO: Yes. Yes. No, I got that.  
12 I got that. But, yes. Yes, there's also that  
13 there's things even further down the road there, too,  
14 that we have to start lining up, but we just need time  
15 to start lining that stuff up.

16 MALE PARTICIPANT: The Reactor Safety  
17 Team, I was just talking to them, and they're starting  
18 to brainstorm. You know, based on the TMI experience,  
19 we had wastewater processing plants. I mean there was  
20 just a whole list of things --

21 CHUCK CASTO: Yes.

22 MALE PARTICIPANT: -- in the long-term we  
23 need to start thinking about.

24 CHUCK CASTO: And, Marty, the reason I  
25 want WANO so bad is Exelon is our biggest BWR

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1 operator, and they have ex-TMI operators working for  
2 them. And I think George what's his name, the guy  
3 that was --

4 MALE PARTICIPANT: (Inaudible)?

5 CHUCK CASTO: Yes. Not Mortensen  
6 (phonetic), no. The operator that TMI --

7 MALE PARTICIPANT: Oh, oh, I'm sorry.  
8 Yes, yes.

9 CHUCK CASTO: Yes, the TMI operator, he  
10 works for them, but they're our biggest operator of  
11 BWRs. And if we can, through WANO, I know WANO wants  
12 to be the industry conduit, but, through WANO, we need  
13 to get, you know, people like Exelon plugged into us  
14 here and be getting some recommendations from them,  
15 you know, some advice, those kinds of things. The  
16 more eyes on the task we can get, the better off we  
17 are.

18 And the Reactor Safety Team, I would  
19 recommend they take a hard look at that NUREG.

20 MALE PARTICIPANT: Yes, we'll do that.  
21 We'll (inaudible, possibly "get them to deal with  
22 that").

23 CHUCK CASTO: And the Perspectives on  
24 Reactor Safety and give us some thoughts after they  
25 review that.

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1 MALE PARTICIPANT: Okay, we'll take that  
2 as an action.

3 CHUCK CASTO: Okay. I'm going to go see  
4 this Assistant to the Ambassador and talk with him.

5 MALE PARTICIPANT: All right.

6 CHUCK CASTO: I'll be talking. I'll call  
7 you soon. I'll call you back.

8 MALE PARTICIPANT: Thanks.

9 MALE PARTICIPANT: Don't worry. Just do  
10 what you've got to do.

11 CHUCK CASTO: All right. Thank you, sir.

12 MALE PARTICIPANT: All righty.

13 CHUCK CASTO: Yes.  
14  
15  
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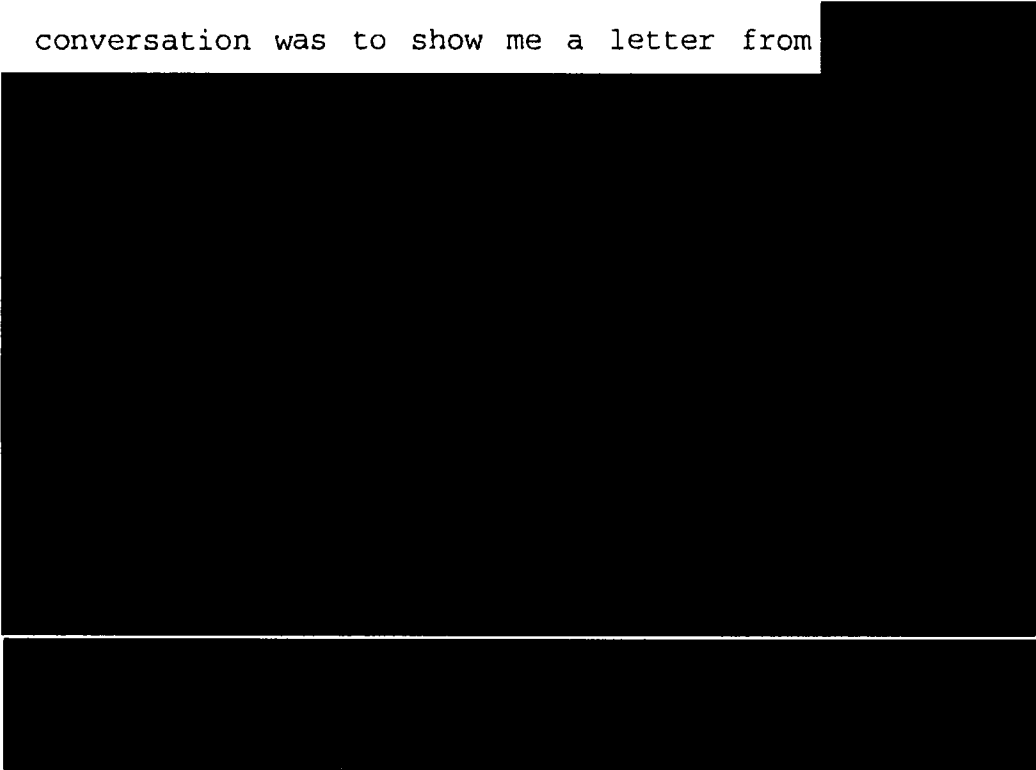
1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chuck Casto coming up  
3 on the ET conference as the Ops Officer. Stand by.

4 CHUCK CASTO: I'm here.

5 MALE PARTICIPANT: Hi, Chuck.

6 CHUCK CASTO: Hey, that little  
7 conversation was to show me a letter from



18 MALE PARTICIPANT: You know, we had some  
19 communication from Naval Reactors earlier tonight all  
20 about that.

21 CHUCK CASTO: So, there's another player,  
22 I guess, that we need to get coordinated with.

23 MALE PARTICIPANT: Yes, we have been,  
24 Chuck, early on.

25 MALE PARTICIPANT: I don't remember where

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1 you were at the time. You may have been flying. But  
2 the Naval Reactors, well, one of their ships, the  
3 Ronald Reagan, was picking up radiation --

4 CHUCK CASTO: Right, right.

5 MALE PARTICIPANT: -- a hundred miles  
6 offshore. And we were interacting with Steve Trautman  
7 from Naval Reactors at that point in time.

8 CHUCK CASTO: Yes, and, honestly, he  
9 walked to the Ambassador Office. You know, he throws  
10 this letter in front of me, and I had to scan it  
11 quickly, and he took it away from me. So, I wasn't  
12 able to look -- all I did notice was it was from the  
13 head of the Technology Department from Naval Reactors.

14 MALE PARTICIPANT: Okay. We can follow  
15 with that through our liaison team --

16 CHUCK CASTO: Yes.

17 MALE PARTICIPANT: -- and find out a  
18 little bit more about what is it that they're  
19 modeling.



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1 [REDACTED] 5  
2 MALE PARTICIPANT: Well, we'll get our  
3 liaison team following up on that.

4 CHUCK CASTO: Yes. So, you've got it.

5 MALE PARTICIPANT: Chuck, Naval Reactors,  
6 the Office of Naval Reactors, they asked for the one-  
7 pager that we sent.

8 CHUCK CASTO: Yes.

9 MALE PARTICIPANT: And we went through DOE  
10 and told DOE they could give it to them. But that  
11 might be where they got the 50 miles (inaudible).

12 CHUCK CASTO: Yes.  
13 [REDACTED] 5  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]

17 CHUCK CASTO: Right.

18 MALE PARTICIPANT: But we'll get with them  
19 and figure that out.

20 CHUCK CASTO: Yes. So, I just give you  
21 that piece of information, and then you'll handle it.

22 MALE PARTICIPANT: Yes.

23 CHUCK CASTO: And I think the letter was  
24 titled, the title of the guy was, you know, the  
25 Department Head for Technology in Naval Reactors,

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1 whoever that is.

2 MALE PARTICIPANT: Okay.

3 CHUCK CASTO: All right. Thanks, guys.

4 MALE PARTICIPANT: Thanks.

5 MALE PARTICIPANT: Hey, the (inaudible)  
6 Navy and the Reactor Safety Team are both coming in.  
7 Do you want to (inaudible) for a minute.

8 Have you got a second, Chuck?

9 CHUCK CASTO: Yes, I do.

10 MALE PARTICIPANT: Okay.

11 PAT: Hi, Chuck. Pat (inaudible, possibly  
12 "Island").

13 MALE PARTICIPANT: Go ahead. Go ahead.  
14 Go ahead, Pat. Did you have anything you wanted to --

15 PAT: No. Just, Chuck, we got the  
16 information on what your suggestions were. And those  
17 reference materials we have been using here in the  
18 Incident Response Center for a couple of days.

19 CHUCK CASTO: Good.

20 PAT: That's the 800 course material, the  
21 NUREG CR-6150.

22 CHUCK CASTO: Yes.

23 PAT: We've got that information. I guess  
24 we're looking for, do you have anything else? -- you  
25 know, I know you just got on the ground there -- that

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1 we could help you with?

2 CHUCK CASTO: Yes, that's what I said. I  
3 would reach out to the Lab on some of those models  
4 that they have and get some recommendations from the  
5 Lab about projection on dose. I'll tell you, from  
6 what I know and what I've seen, it doesn't have a good  
7 outcome in a station blackout for this length of time.

8 PAT: Right.

9 CHUCK CASTO: So, you could just about  
10 assume it's going to go its course --

11 PAT: Right.

12 CHUCK CASTO: -- with the Mark 1  
13 containment. Now the question is, you know, what  
14 happens to the vessel? But, you know, the containment  
15 is probably not going to last at all. So, then,  
16 you've got to start running some other models that  
17 they have that they reference in that NUREG. And I  
18 think the Lab can probably, you know, they've done the  
19 studies. They can probably give you some  
20 recommendations about what kind of releases you're  
21 talking about and how far.

22 PAT: Okay.

23 CHUCK CASTO: Yes, I think what we're  
24 looking for here is, what's the outer reaches of the  
25 distance, you know?

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1 PAT: Okay.

2 CHUCK CASTO: See what you can get from  
3 the Lab. They're really smart people there.

4 PAT: Okay.

5 TOM: This is Tom Lyle (phonetic).

6 Are you aware that GE Hitachi has got an  
7 EOC stood up in Tokyo?

8 CHUCK CASTO: No. That's another player  
9 we would like to get tied into somehow.

10 MALE PARTICIPANT: We've requested a  
11 contact phone number for you in Tokyo. And our GE  
12 contact here, Wilmington (phonetic), was going to try  
13 to get that number and a name, so that we could call  
14 up and introduce ourselves directly.

15 CHUCK CASTO: Yes, I would love to get  
16 somebody embedded in GE as well.

17 MALE PARTICIPANT: Yes, they haven't  
18 called us back yet. Eva (phonetic) is shaking her  
19 head, no, they still haven't called us back. But the  
20 promised to give us that information.

21 CHUCK CASTO: Then, we need to elevate who  
22 we're talking to, then.

23 MALE PARTICIPANT: Right.

24 CHUCK CASTO: I mean, if Marty can call  
25 whomever in the upper reaches of GE, forget about the

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1 liaison person.

2 MALE PARTICIPANT: All right. Okay.

3 CHUCK CASTO: Call the upper reaches of GE  
4 and see how we can get embedded in there, because that  
5 would be as good as being in TEPCO, or wherever, not  
6 quite as good as EOC, but pretty good.

7 Thank you.

8 I don't know how to tell you to get a hold  
9 of me. They've confiscated --

10 FEMALE PARTICIPANT: Do you have your  
11 BlackBerry?

12 MALE PARTICIPANT: Have you got your  
13 BlackBerry?

14 CHUCK CASTO: Yes, but, for today anyhow,  
15 they have confiscated our BlackBerrys at the guard  
16 shack and our computers. The Embassy is trying to get  
17 that fixed, but, for now, we don't have BlackBerrys or  
18 laptops inside.

19 So, [REDACTED] is the point of contact, you know,  
20 is going to be the point of contact.

21 MALE PARTICIPANT: We have a phone number  
22 for Amy's BlackBerry.

23 CHUCK CASTO: Yes, Amy or [REDACTED] because at  
24 this point -- and what I'll do is I'll just call in  
25 every hour or so. What is it? We're on the hour now.

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1 So, maybe, Marty, if you're okay with it, I'll just  
2 call in in the next hour.

3 MARTY VIRGILIO: Yes, that would be good.

4 Then, we will get to check in before -- because we'll  
5 start doing turnover here at 6:30, in a hour and a  
6 half.

7 CHUCK CASTO: Okay. So, I'll call --

8 MARTY VIRGILIO: So, if you check in in an  
9 hour, that would be great.

10 CHUCK CASTO: I'll call you in an hour and  
11 see if there's anything changed and what you have, and  
12 we'll share information.

13 Now I understand -- Allen, help me out  
14 about this again -- there's going to be a flight  
15 tomorrow, the FERMAC at 9:00 a.m.?

16 MALE PARTICIPANT: (Inaudible) that's  
17 supposed to be flying over the areas around --

18 MALE PARTICIPANT: We don't seem to know  
19 that.

20 CHUCK CASTO: ET, they're going to flying  
21 around ET. Between Tokyo, they're covering between  
22 Tokyo and the plant at 9:00 a.m. in the morning.

23 MALE PARTICIPANT: We haven't heard that.

24 MALE PARTICIPANT: We haven't heard that.

25 CHUCK CASTO: Well, I'm sitting here

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1 talking to -- Allen is the man --

2 ALLEN: Allen Remick (phonetic).

3 CHUCK CASTO: Allen Remick is the man on  
4 that, and I'm sitting right here next to him. He says  
5 they got the green light to go from Tokyo up to the  
6 plant at 9:00 a.m.

7 MALE PARTICIPANT: That's great. That's  
8 great.

9 MALE PARTICIPANT: That is very good.

10 CHUCK CASTO: AMS (phonetic). But that's  
11 -- what? -- 12, 15 hours from now.

12 MALE PARTICIPANT: Right. Right. But  
13 we'll be, obviously, interested (inaudible).

14 CHUCK CASTO: Yes. Okay. I'll call you  
15 in one hour.

16 MALE PARTICIPANT: Is there some way that  
17 we can get that information?

18 CHUCK CASTO: Yes, Allen, you can get me  
19 that information in the morning after they download it  
20 or something?

21 ALLEN: Yes, we can -- we will do an  
22 analysis of it and give you --

23 CHUCK CASTO: You're going to give a  
24 SITREP?

25 ALLEN: That's what I'm here for.

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1 CHUCK CASTO: Yes. Allen's the man. He's  
2 a great guy. He's going to get me a SITREP when  
3 they're done. When they get the data tomorrow  
4 morning, get it downloaded and analyze it, I'll get a  
5 SITREP from him.

6 MALE PARTICIPANT: Great.

7 MALE PARTICIPANT: Great.

8 MALE PARTICIPANT: Thank you.

9 CHUCK CASTO: So, they'll do it in 15  
10 hours, and, then, sometime in the next 24 you'll have  
11 some analysis.

12 ALLEN: I'm going to guess it will  
13 probably be, well, I'm not going to guess. I'm sorry,  
14 I can't now.

15 CHUCK CASTO: Yes.

16 ALLEN: I'm not quite sure how they're set  
17 up.

18 CHUCK CASTO: Sometime during the day  
19 tomorrow we should have a SITREP on between Tokyo and  
20 the site.

21 MALE PARTICIPANT: Good.

22 CHUCK CASTO: Okay. I'll talk to you in  
23 an hour.

24 MALE PARTICIPANT: All right.

25 MALE PARTICIPANT: All right. Thanks,

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1 Chuck.

2 CHUCK CASTO: Thank you, gentlemen. Thank  
3 you.

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(CONFERENCE CALL INITIATED)

DAN DORMAN: Hey, John?

JOHN MONAGER: Yes?

DAN DORMAN: I've got the Executive Team.

JOHN MONAGER: Hey, who's this, Mike?

DAN DORMAN: This is Dan Dorman.

JOHN MONAGER: Hey, Dan, how you doing?

DAN DORMAN: Okay. How are you?

JOHN MONAGER: Pretty good. Pretty good.

Hey, we all just got over here, all except for the guy on (inaudible) from TTT.

DAN DORMAN: Right.

JOHN MONAGER: And we arrived at the (inaudible) Embassy about an hour, hour and a half or so ago, and we've been getting some briefings, the lay of the land, et cetera. And it's actually quite interesting, quite busy.

But, with that, I guess the reason we're calling is they've invited the NRC to go to a meeting with TEPCO at eight o'clock here, which is approximately an hour and a half, a meeting with TEPCO, which is the licensee, and NISA, who is the regulatory body.

They are looking for insights, guidance, recommendations from the NRC for all four spent-fuel

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1 pools for the Daiichi site, Daiichi site, the C-H-I  
2 (phonetic) site.

3 MALE PARTICIPANT: That's Daiichi.

4 JOHN MONAGER: Daiichi site, yes, the  
5 C-H-I one.

6 MALE PARTICIPANT: Yes.

7 JOHN MONAGER: Unit 1 and 2 is boiling  
8 down, and Unit 3 and 4 is having zirc/water reaction.  
9 They believe there is essentially no walls on Unit 3.  
10 The explosion -- I'm sorry -- Unit 4. The explosion  
11 leveled the walls, leveled the structure for the Unit  
12 4 spent-fuel pool all the way down to the approximate  
13 level of the bottom of the fuels. So, there's no  
14 water in there whatsoever.

15 MALE PARTICIPANT: And no ability to  
16 retain water.

17 JOHN MONAGER: And no ability to retain  
18 water. Someone has talked about dropping sand in  
19 there, et cetera. To us, I mean the simple, obvious  
20 answer, of course, is water, water, water.

21 You know, there is, I guess, Units 1, 3,  
22 and 4, the reactor building, all three of those had  
23 the explosion. So, then, you've got the question, at  
24 least for Units 1 and 3, you know, would the water  
25 actually reach through all the massive debris? But,

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1 Unit 2, there is a partial hole cut in the top of the  
2 secondary containment. It's there it would seem like,  
3 you know, some type of aerial fire or (inaudible)  
4 truck, you know, just spraying that nozzle in there.

5 MALE PARTICIPANT: So, how far -- you may  
6 want to get some clarification, but our understanding  
7 is that partial hole is on the wall?

8 JOHN MONAGER: It could be. No matter  
9 where it is, I guess the thought would be, if you got  
10 some type of aerial lift fire truck with a nozzle --

11 MALE PARTICIPANT: They have cut the hole  
12 in there so that it wouldn't explode from hydrogen  
13 like the other two units.

14 MALE PARTICIPANT: Right, right. And I  
15 guess from what we've seen, we've seen some things  
16 that we infer that that's on the vertical wall of the  
17 building.

18 Let me go back to your original question.

19 I've got some other folks who came in here. We've  
20 got John Monager (phonetic) on the phone over at the  
21 Embassy. They've got a meeting in about an hour and a  
22 half with TEPCO and NISA who are seeking our best  
23 advice on what to do for the Unit 1 through 4  
24 (inaudible).

25 Unit 1 and 2 are boiling down. Unit 3 and

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1 4 are experiencing zirc/water reactions. They believe  
2 that the explosion in Unit 4 has left the Unit 4  
3 spent-fuel pool with no ability to retain water. They  
4 believe that, essentially, the walls of that spent-  
5 fuel pool are gone.

6 MALE PARTICIPANT: Correct.

7 MALE PARTICIPANT: So, they are looking  
8 for our best advice on how to address that situation.  
9 They're talking about things like dumping sand on it.

10 JOHN MONAGER: Right. That's from the  
11 military.

12 Even though we said an hour and a half, we  
13 probably have to leave here at 7:30. So, it gives us  
14 an hour.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: All right. So, let us  
17 -- is there any immediate --

18 MALE PARTICIPANT: Well, my immediate  
19 reaction is dump sand or dirt would be the  
20 (inaudible). If you confirm the walls are gone and it  
21 doesn't retain water, you've got to cover it up with  
22 (inaudible).

23 MALE PARTICIPANT: How would you do that?

24 MALE PARTICIPANT: What happens a week  
25 from now with that sand? The heat, it's just going to

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1 insulate it. I mean I don't know when sand melts and  
2 turns into glass, but I don't know if you want the  
3 sand in there.

4 MALE PARTICIPANT: Well, we'll go look it  
5 up. Let's do a little research on it and we'll get  
6 back with you.

7 MALE PARTICIPANT: (Inaudible) last night  
8 that has the different possible options for  
9 (inaudible).

10 MALE PARTICIPANT: Yes, the dirt and sand  
11 were two options. What I would add to that, I mean,  
12 if we find out that that is a viable option, instead  
13 of helicopters or buckets of sand, there are actually  
14 things, there's sand pumps. They fill beaches with  
15 them. And we need to bring those resources to bear if  
16 you're pumping sand in there.

17 MALE PARTICIPANT: Hey, let's go back to  
18 just the sand. For the three units, they have the  
19 entire roof and all that debris on top. You're not  
20 getting any sand through that roof. (Inaudible)  
21 potentially getting sand is the No. 4 that I guess  
22 they're all the way down to the side of the fuel pool,  
23 right? I mean, [REDACTED] [REDACTED] [REDACTED]  
24 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] it looks like  
25 there's just tremendous debris on top of these spent-

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1 fuel pools. So, I don't think sand's going through  
2 that.

3 And my battery's going dead.

4 MALE PARTICIPANT: Well, we're only  
5 talking about sand for Unit 4. The other ones can  
6 take water, right?

7 MALE PARTICIPANT: If that's our  
8 recommendation.

9 MALE PARTICIPANT: Yes. I mean, if you  
10 can get water in them, get water in them.

11 MALE PARTICIPANT: Yes.

12 MALE PARTICIPANT: Water and boron or  
13 just --

14 MALE PARTICIPANT: Are you guys still  
15 there?

16 MALE PARTICIPANT: Yes, we're still here.

17 MALE PARTICIPANT: Yes.

18 JOHN MONAGER: So, you know, I mean it is  
19 an obvious answer, the water, boron, et cetera. But I  
20 guess the question is, you know, yes, or if it is not  
21 possible, but, to me, the question is, you know, have  
22 we provided any recommendations to date? You know,  
23 it's my understanding that everything we've been doing  
24 is just information-gathering.

25 And looking through our charter, you know,

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1 there was not reluctance, but the notion to make sure

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 [REDACTED]

15 [REDACTED]

16 [REDACTED]

17 [REDACTED]

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20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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[REDACTED]

[REDACTED]

MALE PARTICIPANT: Right.

MALE PARTICIPANT: I mean, what's interesting, these seem like very elementary questions, though.

MALE PARTICIPANT: Well, can we give them a list of things and priority-wise what could work? That's all we want.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: I mean we're not telling them to do anything. We're giving them our best advice.

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1 JOHN MONAGER: Right, right.

2 MALE PARTICIPANT: That's about all we  
3 know.

4 JOHN MONAGER: So, guys, we're talking  
5 about 40-45 minutes?

6 MALE PARTICIPANT: Yes, and I think, in  
7 the meantime, you guys just need to square it with the  
8 Ambassador as to how you want to do this.

9 JOHN MONAGER: All right. All right.

10 Yes, yes, listening --

11 MALE PARTICIPANT: When you talk to them,  
12 just as a secondary question, what about Unit 5?  
13 Because we had seen a report from IAEA that indicated  
14 that Unit 5 pool -- we think it's the pool; it wasn't  
15 specific. It was (inaudible, possibly "leveled"), and  
16 it wasn't specific to that pool, but we're inferring  
17 it is the pool, was boiling down. And extrapolating  
18 the data from IAEA, we're within a couple of hours  
19 here of getting to the point where they're exposing  
20 fuel in Unit 5.

21 And there was some indication that they  
22 had an operable diesel generator in Unit 6 that they  
23 could use to pump water to Unit 5, but we haven't seen  
24 any confirmation that that's actually happening. So,  
25 secondary to, obviously, Units 3 and 4 are the

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1 (inaudible) gear. But if they have any current  
2 information on Unit 5, that would be good to know.

3 JOHN MONAGER: Okay. All right.



11 So, the question is, do we want to rerun  
12 some of the last calculations --

13 MALE PARTICIPANT: Hang on a second.

14 MALE PARTICIPANT: No, go ahead.

15 MALE PARTICIPANT: Okay. I just talked to  
16 a Mr. Roberts (phonetic) at Naval Reactors.

17 JOHN MONAGER: Okay.

18 MALE PARTICIPANT: And what he provided is  
19 that Naval Reactors put together some talking points  
20 which were not necessarily intended to be this is the  
21 dose or consequences or any of that, but, basically,  
22 broad dialog. And their dialog is around three  
23 points.



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[REDACTED]

MALE PARTICIPANT: It sounds like it's the same email. You're saying they're talking points.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Yes, it seems like the same thing back here. [REDACTED]

[REDACTED] was a talking point.

MALE PARTICIPANT: Was a talking point, but the point that was trying to be made around that was, if they're focusing their attention restoring offsite power, and that particular point, what they will end up with is a problem that could extend out to hundreds of miles.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: That was what it was intended to be. The context of this conversation is being lost in translation.

MALE PARTICIPANT: It definitely sounds like it.

MALE PARTICIPANT: So, what is it they're suggesting to avoid hundreds of miles?

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1 MALE PARTICIPANT: To bring more people,  
2 to bring more resources in there.

3 MALE PARTICIPANT: On that particular  
4 point, it was don't focus on restoring offsite power  
5 because that's something down the line. Focus on the  
6 four pumps that we provided for you that are sitting  
7 at Yokosuka Naval Base Station that you haven't done  
8 anything with.

9 MALE PARTICIPANT: John, does that make  
10 sense?

11 JOHN MONAGER: Yes, that makes sense.

12 MALE PARTICIPANT: And we have heard that  
13 some of those pumps are (inaudible) --

14 MALE PARTICIPANT: They didn't  
15 mention (inaudible). They mentioned the four that we  
16 have (inaudible).

17 MALE PARTICIPANT: John, what else can we  
18 do for you?

19 JOHN MONAGER: I think that's it for now.  
20 You know, we're trying to do the turnover. We're  
21 going to be working here pretty much 24/7. And they  
22 have another center called the --

23 MALE PARTICIPANT: Called the Conti.

24 JOHN MONAGER: -- Conti. It is a  
25 government EOF (phonetic), essentially.

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1 MALE PARTICIPANT: Correct. It's the  
2 Prime Minister's EOC, basically.

3 JOHN MONAGER: So, we're going to have  
4 Tony down there tonight, and we'll have at least one  
5 person, or if not two, up here tonight. But we're  
6 still trying to work through that.

7 MALE PARTICIPANT: Okay.

8 JOHN MONAGER: Chuck is up now with the  
9 Ambassador going through some items, also.

10 MALE PARTICIPANT: All right, we'll talk  
11 to you guys later, then, unless you need anything else  
12 from us.

13 JOHN MONAGER: No. So, I guess, if you  
14 call back, you're going to call my cell phone?

15 MALE PARTICIPANT: (Inaudible). You have  
16 a cell phone?

17 JOHN MONAGER: Yes, we're on a cell phone  
18 right now.

19 MALE PARTICIPANT: We've got a --

20 JOHN MONAGER: We do have a land line  
21 going down.

22 MALE PARTICIPANT: Yes, if you could call  
23 the Ops Center on your land line and get hooked up to  
24 the executive bridge in about a half an hour, we'll  
25 give you our best thinking.

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1 JOHN MONAGER: Yes. Actually, we've got a  
2 land line now. So, when we hang up here, we'll just  
3 go right into that for the ET bridge and just keep it  
4 going.

5 MALE PARTICIPANT: Fine. Good enough.

6 MALE PARTICIPANT: Great.

7 JOHN MONAGER: All right. Thank you.  
8 Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: It was intended to be  
3 talking points, not intended to be something on  
4 letterhead to TEPCO or anything. And there is a bit  
5 of frustration on the Naval Reactor (inaudible). Fix  
6 the problem now, thank you very much, not (inaudible).

7 MALE PARTICIPANT: What are we going to do  
8 about protective action, and the like of that, with  
9 the current information that we know? If they get a  
10 (inaudible, possibly "knee-jerk") reaction  
11 (inaudible), and no water, (inaudible), but that's  
12 (inaudible).

13 MALE PARTICIPANT: I know, but they  
14 haven't really done anything with the (inaudible).

15 MALE PARTICIPANT: We came down to  
16 validate our (inaudible).

17 MALE PARTICIPANT: I mean, actually,  
18 that's what they're doing piecemeal anyway. Now, with  
19 our update on the --

20 MALE PARTICIPANT: We also have the Kyoto-  
21 produced report at 33 percent fuel damage in Unit 2,  
22 and NHK reported NISA with the partial containment  
23 failure.

24 I'm thinking, do we want to (inaudible,  
25 possibly "run a 3-4 percent fuel pool) and (inaudible)

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1 33 percent damage was reached?

2 MALE PARTICIPANT: Maybe if we have all of  
3 those (inaudible) within the first term, what are they  
4 going to do there? Is it going to be radically  
5 different?

6 MALE PARTICIPANT: From what they tell me,  
7 it won't be radically different.

8 MALE PARTICIPANT: Tell me again, what  
9 would be the conditions?

10 MALE PARTICIPANT: Unit 2, Unit 2, 33  
11 percent --

12 MALE PARTICIPANT: Thirty-three percent.

13 MALE PARTICIPANT: -- fuel damage  
14 (inaudible, possibly "containment reached"). Units 3  
15 and 4, (inaudible, possibly "uphold") the 50 percent  
16 that we've had.

17 MALE PARTICIPANT: Both of them?

18 MALE PARTICIPANT: Both of them  
19 (inaudible) with containment?

20 MALE PARTICIPANT: No.

21 MALE PARTICIPANT: No?

22 MALE PARTICIPANT: No. (Inaudible).

23 MALE PARTICIPANT: But the problem that we  
24 have is, if they wait until tomorrow at nine  
25 o'clock --

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1 MALE PARTICIPANT: (Inaudible).

2 MALE PARTICIPANT: -- and we know that  
3 they've got, you know, a bunch of stuff being put out  
4 into the air --

5 MALE PARTICIPANT: (Inaudible).

6 MALE PARTICIPANT: The question is, do we  
7 want to press the issue of (inaudible)?

8 MALE PARTICIPANT: (Inaudible) from John,  
9 3 and 4 have (inaudible, possibly "clear reactions  
10 going on"). What about Unit 1?

11 MALE PARTICIPANT: Units 1 and 2 are  
12 boiling down, but they're not in play right now.

13 MALE PARTICIPANT: Well, I wonder if the  
14 fuel is uncovered at this point and whether they can  
15 leave it, get water in there. With the radiation  
16 shields in that area --

17 MALE PARTICIPANT: And if they're not  
18 boiled off yet, how long until they are?

19 MALE PARTICIPANT: Yes. I mean, are they  
20 recoverable?

21 MALE PARTICIPANT: Well, when these are  
22 boiling down, I think that could mean that they are  
23 steaming off, but --

24 MALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: That ought to be a high

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1 priority.

2 MALE PARTICIPANT: Right. Yes.

3 MALE PARTICIPANT: You might have one core  
4 going, but if you have three cores going  
5 (inaudible) --

6 MALE PARTICIPANT: Keep it down to two,  
7 yes.

8 MALE PARTICIPANT: I mean it's  
9 inconceivable that (inaudible) core --

10 MALE PARTICIPANT: There's a minimum of 23  
11 feet of water above those. They're now getting to the  
12 point of saying that, "We need water."?

13 MALE PARTICIPANT: I don't think they --

14 MALE PARTICIPANT: There was a minimum of  
15 23 feet above them four days ago.

16 MALE PARTICIPANT: Right.

17 (Laughter.)

18 MALE PARTICIPANT: But (inaudible) to be a  
19 priority, if it's humanly possible. But they're just  
20 wondering if it's even possible.

21 MALE PARTICIPANT: And 1 may be the most  
22 accessible one.

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: With the (inaudible)  
25 structure over the top, that may be the easiest one to

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1 put water in.

2 MALE PARTICIPANT: Yes, and we're talking  
3 about four, covering with dirt. I mean, can it even  
4 be done? I mean I guess that's also the challenge.  
5 How do you get in there to do it?

6 MALE PARTICIPANT: I think you've got to  
7 break a hole in the roof.

8 MALE PARTICIPANT: Well, no. I mean, no,  
9 there is no roof on (inaudible).

10 MALE PARTICIPANT: No, this is 4.

11 MALE PARTICIPANT: Yes. I mean, what kind  
12 of equipment can you get in there to --

13 MALE PARTICIPANT: (Inaudible).

14 MALE PARTICIPANT: I think a good bet is  
15 (inaudible) coming from the pool.

16 MALE PARTICIPANT: It's probably  
17 (inaudible, possibly "at this") level?

18 MALE PARTICIPANT: I think it's down here,  
19 maybe here. Here.

20 The question is, do you have a (inaudible,  
21 possibly "hand pump")?

22 MALE PARTICIPANT: Yes, yes.

23 MALE PARTICIPANT: Do you have 10 percent  
24 efficiency in getting a fan in there?

25 MALE PARTICIPANT: If you had a

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1 (inaudible, possibly "front-loader"), could you even  
2 get close enough?

3 MALE PARTICIPANT: What is the radiation  
4 field in and around that?

5 MALE PARTICIPANT: It's been 10 to 11  
6 (inaudible). (Inaudible, possibly "The pump, if you  
7 could just get the pump and get one shot") in the hose  
8 there, you could pump it in.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: But it might take them  
11 days to get the hoses. And I don't know if those sand  
12 pumps need (inaudible, possibly "source material to  
13 pump"). They really don't have any compressed air.  
14 (Inaudible) they'll pump dirt out of the ground.

15 MALE PARTICIPANT: Yes, yes.

16 MALE PARTICIPANT: (Inaudible).

17 MALE PARTICIPANT: Okay. We can  
18 (inaudible, possibly "run") that.

19 What I wanted to tell you, another piece  
20 of information we got from the (inaudible) call, is  
21 they did get the plane up over the air base, and they  
22 have detectable iodine and cesium in the ground, but  
23 we were unable to get any quantitative values for  
24 those.

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: The air base is  
2 (inaudible, possibly "150 miles west") (inaudible).

3 MALE PARTICIPANT: I'm not sure. It's 75  
4 or 100, but it's directly west of (inaudible "you").  
5 Because it's about the same radius from the plant.

6 And if you need any more specifics on  
7 that, what we've got --

8 MALE PARTICIPANT: Okay. We'll start  
9 running this.

10 MALE PARTICIPANT: So, we're going to run  
11 it with (inaudible), put in their (inaudible)? We  
12 didn't hear anything about the (inaudible, possibly  
13 "plant").

14 MALE PARTICIPANT: Did we include any on  
15 (inaudible)?

16 MALE PARTICIPANT: Do you want to mark it  
17 up further? I'm going to give it back to her. And,  
18 then, I'm doing the (inaudible).

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: I'm going to put in a  
21 statement that says NRC has been requested to provide  
22 solutions to whatever the --

23 MALE PARTICIPANT: Well, I think the  
24 second page we ought to identify the fact that we've  
25 sent, you know, to the Embassy or we've had our folks

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1 --

2 MALE PARTICIPANT: This the Headquarters  
3 Operations Officer, Mr. Monager (phonetic), is coming  
4 up on the ET bridge.

5 Mr. Monager, are you there, sir?

6 MR. MONAGER (phonetic): Yes, sir.

7 MALE PARTICIPANT: All right.

8 JOHN MONAGER: Hey, we were just  
9 reestablishing a line, and we're just going to keep a  
10 line open.

11 MALE PARTICIPANT: Okay.

12 JOHN MONAGER: Okay?

13 MALE PARTICIPANT: Sounds good enough,  
14 John.

15 JOHN MONAGER: We'll put it on mute, too.

16 MALE PARTICIPANT: Okay. Thanks.

17 MALE PARTICIPANT: On the second page, we  
18 have our key messages and talking points. We  
19 recognize that we have said a rationale for why the  
20 rad team needs to get (inaudible).

21 In fact, our assessment, our new dose  
22 assessment, and --

23 MALE PARTICIPANT: (Inaudible).

24 MALE PARTICIPANT: Hey, John, are you up  
25 there?

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1 JOHN MONAGER: Yes, we're here.

2 MALE PARTICIPANT: All right. I think if  
3 you put it on mute, or whatever you just did, it's  
4 music.

5 JOHN MONAGER: Yes. I think we're  
6 probably going to have to hang up. They're still  
7 setting up the phones here.

8 MALE PARTICIPANT: All right.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: Okay.

11 JOHN MONAGER: All right. So, we'll give  
12 you guys a buzz back.

13 All right. Thank you. Bye-bye.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Do we want to say anything about the protective actions, in the public document about the protection action guidelines? Right now, we say ours aren't inconsistent with what theirs (inaudible, possibly "were").

MALE PARTICIPANT: In the public document?

MALE PARTICIPANT: Well, I'm sorry, the public, it's sent out to all agencies, which it would be expected to go public.

And I don't know if we want to say anything different or just leave the points in (inaudible) right now.

MALE PARTICIPANT: What is it, the (inaudible)?

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Marty, I have Chuck Casto coming on the bridge.

MARTY VIRGILIO: Okay.

Chuck, are you there?

CHUCK CASTO: Yes, I'm here.

MALE PARTICIPANT: Okay, Chuck, we're here.

CHUCK CASTO: Hey, we just had a very dynamic phone call with the Ambassador and the

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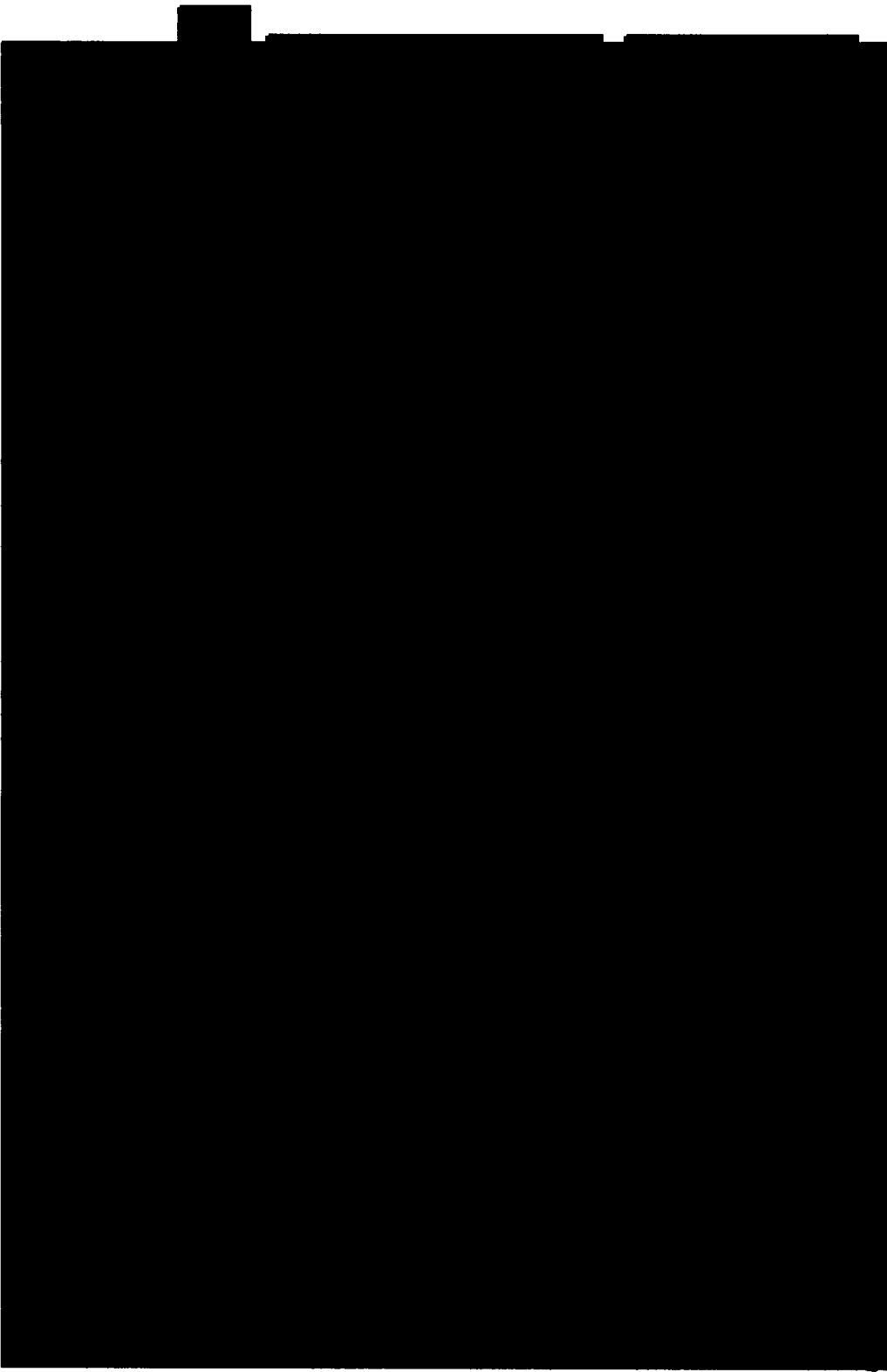
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1 Director of Nuclear Technology for the Naval Nuclear  
2 Propulsion Program, Admiral Mueller, Ren (phonetic),  
3 and Thomas.



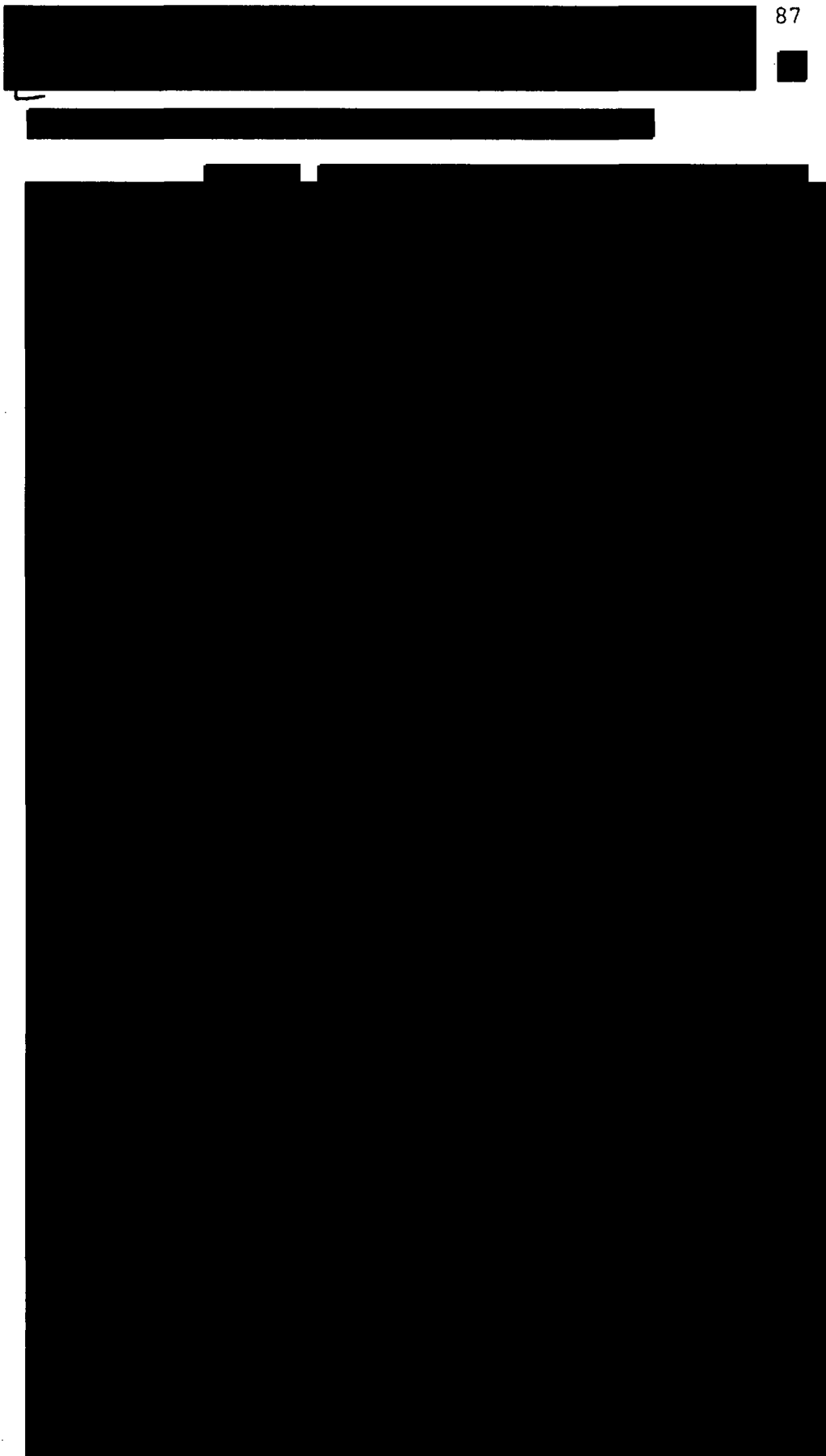
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1 MALE PARTICIPANT: Okay. Yes, we'll get  
2 on it, Chuck, but I'm not sure that Naval Reactors has  
3 done a calculation.

4 CHUCK CASTO: They haven't, no.

5 MALE PARTICIPANT: They're just shooting  
6 from the hip.

7 CHUCK CASTO: Right, it's visceral.

8 MALE PARTICIPANT: Yes.

9 CHUCK CASTO: But we need to at least come  
10 to some agreement. And I have Mueller's phone number,  
11 I think, here, to call him.

12 MALE PARTICIPANT: Is he the person who  
13 signed this document?

14 CHUCK CASTO: It says, it has Mueller, Ren  
15 (phonetic), and Thomas send on it, an email.

16 MALE PARTICIPANT: Okay. But if you've  
17 got Mueller's phone number, we'll follow up with him.

18 CHUCK CASTO: [REDACTED] [REDACTED] [REDACTED]  
19 [REDACTED]

20 You know, and the other thing is Offendorf  
21 (phonetic) has a lot of background in this area with  
22 Naval Reactors and the Admiral and stuff. You know,  
23 he may be able to help out a little bit here, trying  
24 to get us to work together well. It's just a  
25 suggestion.

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1 MALE PARTICIPANT: Okay. We'll work it.

2 CHUCK CASTO: And, then, so we need, the  
3 Admiral -- or, the Admiral? -- the Ambassador would  
4 like a one-pager or something, bullet points, that  
5 reconcile these differences or explain the two sides  
6 by the time he has the call with the White House at  
7 nine o'clock our time, which is two hours from now.

8 Meanwhile, in an hour, TEPCO has asked for  
9 us to come over and meet with them. So, they may be  
10 reaching out for some advice.

11 MALE PARTICIPANT: Beyond what John  
12 Monager has asked for?

13 CHUCK CASTO: I don't know what John has  
14 asked for.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: We talked with John  
17 about 20 minutes ago, and what he indicated was that  
18 they're looking for advice on the spent-fuel pools,  
19 that Units 1 and 2 are boiling off.

20 CHUCK CASTO: Yes, that's probably the  
21 advice they're looking for. So, whatever we have for  
22 that, if we can share it --

23 MALE PARTICIPANT: Right. We're working  
24 on a timeline to support John right now.

25 CHUCK CASTO: Okay. So, you've got two

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1 things you're working on there.

2 MALE PARTICIPANT: Got it.

3 MALE PARTICIPANT: Well, Chuck, the phone  
4 number you gave was for whom?

5 CHUCK CASTO: It's Troy J. Mueller,  
6 M-U-E-L-L-E-R. He's the Director of Nuclear  
7 Technology for the Naval Nuclear Propulsion Program.

8 MALE PARTICIPANT: M-U --

9 CHUCK CASTO: E-L-L-E-R.

10 MALE PARTICIPANT: Thank you.

11 MALE PARTICIPANT: And he's over here in  
12 Washington?

13 CHUCK CASTO: Yes, I believe so, right.  
14 Yes.

15 MALE PARTICIPANT: So, it's 202 area code?

16 CHUCK CASTO: Yes. Yes, probably. Yes,  
17 probably a 202. He's in Washington. We just had a  
18 videoconference with him and the Ambassador.

19 MALE PARTICIPANT: Okay.

20 CHUCK CASTO: And it was very heated.

21 Okay. So, you'll get, reconcile something  
22 is bought off? Because he's going to ask if the  
23 Chairman's bought off in this. I know he's going to  
24 ask us that.

25 He wants to go to the Japanese. He wants

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1 to go to the Prime Minister and tell them.

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16 MALE PARTICIPANT: Well, it sounds like  
17 they did send it to the Ambassador.

18 MALE PARTICIPANT: Okay.

19 CHUCK CASTO: Yes, we need to get --

20 MALE PARTICIPANT: Did I get it right,  
21 Chuck?

22 CHUCK CASTO: Yes, they sent it to the  
23 Ambassador.

24 MALE PARTICIPANT: Okay.

25 CHUCK CASTO: They need to come through

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1 us. I mean they need to work with us.

2 MALE PARTICIPANT: Yes.

3 CHUCK CASTO: But they're not very --

4 MALE PARTICIPANT: Well, yes, I'm not sure  
5 that within NR they've got it well-coordinated because  
6 we've been working with them all through the time, and  
7 nobody mentioned this.

8 CHUCK CASTO: Yes. Well, they're  
9 certainly visceral.

10 But, anyhow, I'll let you go, so you can  
11 get busy.

12 MALE PARTICIPANT: Okay.

13 CHUCK CASTO: All right, thanks. Thanks.

14 MALE PARTICIPANT: Who should be doing  
15 what?

16 MALE PARTICIPANT: Okay. I'm following up  
17 with NR. The Procedures Team is working on spent  
18 fuel.

19 MALE PARTICIPANT: Should we do  
20 (inaudible, possibly "IC")?

21 MALE PARTICIPANT: Does IC have any  
22 actions out of this?

23 MALE PARTICIPANT: We're running  
24 (inaudible) 33 percent and these are (inaudible)  
25 percent. But the gut reaction, it's not going to be

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1 much different.

2 MALE PARTICIPANT: That's fine.

3 MALE PARTICIPANT: Who's coming up with  
4 these talking points for the Ambassador? He's going  
5 to need two hours.

6 MALE PARTICIPANT: I think let's get what  
7 we need for John in 10 minutes, so we can focus on  
8 what we need for the Ambassador. I mean I think  
9 that's the same call that Mike's on at eight o'clock  
10 our time.

11 MALE PARTICIPANT: He hasn't shared it  
12 with the Ambassador yet.

13 MALE PARTICIPANT: I'm not sure what we're  
14 going to do with it right now, do with the Chairman.  
15 What will we tell him? I mean there's no decisions to  
16 be made yet. At some point, we need to give him an  
17 update on the status.

18 MALE PARTICIPANT: (Inaudible, possibly  
19 "Where was") the Japanese (inaudible, possibly  
20 "regulator in all this")?

21 MALE PARTICIPANT: Well, they were in the  
22 meeting that Tony had just come from that (inaudible).  
23 They were in the meeting. It was with (inaudible)  
24 and TEPCO (inaudible).

25 They came back from that meeting because

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1 (inaudible, possibly "there was going to be a")  
2 meeting to go into detail about what (inaudible).

3 MALE PARTICIPANT: Dan, are you  
4 comfortable that you've got a list of action items?

5 MALE PARTICIPANT: I'm not sure that  
6 that's (inaudible).

7 MALE PARTICIPANT: Yes, yes. Make sure  
8 that we get that updated of all the different things  
9 that we're now working on.

10 MALE PARTICIPANT: I could start that list  
11 and get back to him, if you want to take a look at --

12 MALE PARTICIPANT: Yes. We'll combine the  
13 changes on each different (inaudible).

14 MALE PARTICIPANT: Do you want to review  
15 this and I'll work on (inaudible)?

16 MALE PARTICIPANT: (Inaudible, possibly,  
17 "I can do whatever you want.")

18 MALE PARTICIPANT: If you wouldn't mind?  
19 I started TEPCO, make this public.

20 MALE PARTICIPANT: (Inaudible)?

21 MALE PARTICIPANT: Interagency, the  
22 interagency one that is likely to be shared with the  
23 public. So, (inaudible) for the general (inaudible).

24 MALE PARTICIPANT: Right. Anything  
25 additional? (Inaudible).

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1 MALE PARTICIPANT: (Inaudible).

2 MALE PARTICIPANT: Marty's calling in  
3 about 30 minutes to review both documents that we  
4 merged together, and, then, also, the document  
5 recommending that --

6 MALE PARTICIPANT: Is this going out to  
7 other agencies?

8 MALE PARTICIPANT: No, this is not. The  
9 private one, you can put it in that one; Rod  
10 (phonetic) can't put it in his. That's the one that  
11 kind of is a (inaudible, possibly "shotgun following  
12 us").

13 But what's the other one? The one we sent  
14 to [REDACTED] on --

15 MALE PARTICIPANT: (Inaudible).

16 MALE PARTICIPANT: Correct. Yes.

17 MALE PARTICIPANT: That picks up  
18 (inaudible).

19 MALE PARTICIPANT: Yes, it will be up  
20 tomorrow.

21 MALE PARTICIPANT: Yes. Yes. Yes, that's  
22 right we don't need to put that in, that we  
23 recommended it, now that it's coming. Yes. Okay. It  
24 makes sense.

25 (Pause.)

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6

1 MALE PARTICIPANT: Our talking points  
2 (inaudible).

3 MALE PARTICIPANT: We're not sure of the  
4 bigger thing.

5 MALE PARTICIPANT: So, is there anything  
6 in there that's not in the bigger document?

7 MALE PARTICIPANT: No, not at all.

8 MALE PARTICIPANT: But what I was trying  
9 to do, if we're trying to get to a one-pager for the  
10 Ambassador, this looks a lot closer to that.

11 MALE PARTICIPANT: Well, the problem,  
12 though, this is more of a, this is definitely  
13 (inaudible).

14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]

22 MALE PARTICIPANT: (Inaudible).

23 MALE PARTICIPANT: And did give that to  
24 DOE. (Inaudible).

25 MALE PARTICIPANT: I'm not sure

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1 (inaudible).

2 MALE PARTICIPANT: Do you want me to hang  
3 this line up?  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Dan?

3 DAN DORMAN: Yes?

4 MALE PARTICIPANT: Admiral Donald  
5 (phonetic) wants to talk to both you and the Chairman.  
6 So, they're getting the Chairman on the line, and  
7 they're patching in (inaudible).

8 DAN DORMAN: Okay.

9 MALE PARTICIPANT: Admiral Donald is Naval  
10 Reactors.

11 MALE PARTICIPANT: Okay, my work here is  
12 done.

13 (Laughter.)

14 MALE PARTICIPANT: Okay, let's get you  
15 guys (inaudible).

16 MALE PARTICIPANT: This is what we sent.  
17 Do you want send that to somebody in Naval Reactors?

18 MALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: (Inaudible) send it to.  
20 I'll try to get a hold of (inaudible).

21 MALE PARTICIPANT: (Inaudible).

22 MALE PARTICIPANT: I know. It's either go  
23 with what we got there or else just erase it and don't  
24 even put it on there because we're working it. If we  
25 say that they're not good anymore, then that worries

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1 people.

2 MALE PARTICIPANT: Our understanding is we  
3 (inaudible).

4 (Inaudible.)

5 MALE PARTICIPANT: They're saying that the  
6 initial high readings we got were coming from  
7 (inaudible, possibly "readings") from Unit 4, but were  
8 actually from Unit 3. (Inaudible).

9 (Inaudible.)

10 MALE PARTICIPANT: Admiral Donald is  
11 asking to just speak to the Chairman. So, we want to  
12 be kind of keyed into that.

13 MALE PARTICIPANT: Don't we want to brief  
14 the Chairman beforehand? I mean you can't let the  
15 Chairman get caught cold. How about we need to talk  
16 to the Chairman first?

17 MALE PARTICIPANT: First, brief the  
18 Chairman, and if they don't want (inaudible).

19 (Inaudible).

20 MALE PARTICIPANT: (Inaudible) the issue.  
21 The Chairman's coming in cold. (Inaudible).

22 MALE PARTICIPANT: All right. Let me know  
23 when he's available.

24 MALE PARTICIPANT: We're trying to the  
25 Chairman. (Inaudible). The recommendation is to

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1 first brief the Chairman and then have the phone call.

2 (Inaudible.)

3 MALE PARTICIPANT: (Inaudible) hot items  
4 that we ought to get up on the track or (inaudible).

5 MALE PARTICIPANT: We should say that, in  
6 light of current wind conditions, protective measures  
7 (inaudible).

8 (Inaudible).

9 MALE PARTICIPANT: Amazing point in that,  
10 if the wind changes, then (inaudible). I don't think  
11 we can hide from that.

12 (Inaudible).

13 MALE PARTICIPANT: Actually, NUREG-1353  
14 does provide an Alternative 6 which we pulled out  
15 after we had contacted the five NRC experienced  
16 structural civil engineers, reached out, and they were  
17 (inaudible). Essentially, all say the same, that this  
18 Alternative 6 which was developed in the NUREG talks  
19 about (inaudible) all the materials from the  
20 (inaudible, possibly "drained") spent-fuel pool.

21 And it gives the types of materials that  
22 we've brainstormed. There's sand, clay, dolomite,  
23 (inaudible) compounds, lead, et cetera. And we're  
24 getting this emailed over to our contacts.

25 I thought Chuck said he had this NUREG,

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1 but there is actually an Alternative 6, which if  
2 you've got nothing else left, is Brookhaven National  
3 Laboratory, the Chernobyl event. The (inaudible)  
4 there. So, that's the answer that we could give right  
5 now.

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: Yes, it's quick and  
8 dirty.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: I mean I think you  
11 really have to get your real experts to sit down, and  
12 we don't understand the condition. Is the pool wall  
13 caved over or is it just the liner's cracked and the  
14 concrete's cracked? Naval Reactors is pour water on,  
15 pour water on, pour water on.

16 Concrete, I've got a lot of negative  
17 reaction to concrete. Naval Reactors suggested  
18 concrete. My concrete specialist said, "Well, no, I'm  
19 not sure about concrete."

20 MALE PARTICIPANT: How long are you going  
21 to take to set up a batch?

22 MALE PARTICIPANT: Yes, where's the batch  
23 (inaudible), right? I mean you're right.

24 But I like this Alternative 6, a five-  
25 minute answer, this is it.

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1 MALE PARTICIPANT: And that came out of  
2 where again?

3 MALE PARTICIPANT: It came out of NUREG --  
4 here's on the top. I wrote that on the top. It's a  
5 NUREG.

6 MALE PARTICIPANT: And this came out in an  
7 email to [REDACTED] and Amy (inaudible)?

8 MALE PARTICIPANT: We're doing that. And  
9 [REDACTED] (phonetic) is doing it as we speak.

10 MALE PARTICIPANT: She has [REDACTED]  
11 (inaudible)?

12 MALE PARTICIPANT: She does. Well, she  
13 may not have [REDACTED], but she's got [REDACTED]

14 MALE PARTICIPANT: [REDACTED] Okay.

15 MALE PARTICIPANT: I think she has to  
16 retype it. She tried --

17 MALE PARTICIPANT: I don't if we have a  
18 fax number, but we're working on it.

19 MALE PARTICIPANT: (Inaudible) Chuck, he  
20 had a couple of things he read on the plane over to  
21 there when we first talked to him.

22 MALE PARTICIPANT: But we need to give you  
23 this other one, so we can reconcile the two.

24 MALE PARTICIPANT: Yes, I'll take a look  
25 at that. Yes, I'll get back to you.

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1 MALE PARTICIPANT: How long (inaudible)  
2 the Admiral with Naval Reactors?

3 MALE PARTICIPANT: Admiral Donald.

4 MALE PARTICIPANT: Pardon me?

5 MALE PARTICIPANT: Admiral Donald?

6 MALE PARTICIPANT: Admiral Donald?

7 MALE PARTICIPANT: (Inaudible).

8 (Inaudible).

9 MALE PARTICIPANT: Did you give the  
10 Chairman --

11 MALE PARTICIPANT: They know each other.  
12 They know each other.

13 (Inaudible).

14 MALE PARTICIPANT: Are we letting it out  
15 that we received the GE (inaudible) (inaudible,  
16 possibly "where the breach is")?

17 MALE PARTICIPANT: (Inaudible).

18 MALE PARTICIPANT: Was that the breach in  
19 the RTS?

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: It's okay, yes.  
22 (Inaudible, possibly "It has got a whole upper valve  
23 break"), and in the containment I don't think we were  
24 -- well, we don't really know it, do we?

25 (Inaudible).

26

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: I have Jack Foster  
3 coming up on the bridge.

4 MALE PARTICIPANT: Jack?

5 JACK: Hi. This is Jack.

6 John Monager is stepping out for a  
7 meeting. He wanted me to talk to you about, I don't  
8 believe you're aware or I think that you've just been  
9 talking to Greg Casto, Chuck Casto, just a little  
10 while ago about the conversation with Naval Reactors.

11 MALE PARTICIPANT: Yes.

12 JACK: Let me put you on hold just for a  
13 second, okay, because I've got some people here I've  
14 got to quiet down?

15 MALE PARTICIPANT: Thank you.

16 (Pause.)

17 JACK: Okay. Sorry about that.

18 So, I guess the idea, that Chuck mentioned  
19 that Naval Reactors and somehow the ET are working  
20 together to figure out a path forward. That path may  
21 include some kind of calculations associated with  
22 protective action or a (inaudible, possibly "Rad Code  
23 1") or something like that.

24 I'm just kind of fishing right now because  
25 most everybody has left the room and there's a lot of

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1 things going on here.

2 MARTY VIRGILIO: Hey, Chuck -- I'm sorry  
3 -- Jack, this is Marty.

4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]  
9 [REDACTED]

10 JACK: Definitely. Exactly. And that  
11 makes sense.

12 MARTY VIRGILIO: We're trying to connect  
13 with NR, and we're trying to connect with the Chairman  
14 right now to get that accomplished.

15 JACK: Marty, you know, we have been  
16 talking a little bit behind the scenes here, too,  
17 about the possibility of (inaudible) with sort of the  
18 knowns that we have, the two --

19 MARTY VIRGILIO: Jack, that's how we  
20 developed our talking points.

21 JACK: Okay, okay. Things haven't --

22 MARTY VIRGILIO: That's exactly what we've  
23 done.

24 JACK: Okay.

25 MARTY VIRGILIO: Now Naval Reactors, I

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1 don't know that they did anything that sophisticated.

2 I think they developed their talking points based on  
3 engineering judgment.

4 JACK: Okay. Okay.

5 MARTY VIRGILIO: But we're trying to  
6 understand that.

7 JACK: Okay. I appreciate it, Marty.  
8 Thanks a lot.

9 MARTY VIRGILIO: Okay, Jack.

10 JOHN MONAGER: Hey, Marty, this is John.  
11 We're getting ready to head out to that  
12 TEPCO meeting.

13 MARTY VIRGILIO: Okay. Did you get the  
14 information that we sent on (inaudible) for the  
15 (inaudible)?

16 MALE PARTICIPANT: [REDACTED] we sent it  
17 to [REDACTED]

18 MARTY VIRGILIO: We sent it to [REDACTED]

19 JOHN MONAGER: We only have (inaudible,  
20 possibly "some").

21 MARTY VIRGILIO: Well, we sent it to [REDACTED]  
22 [REDACTED] There's a set of recommendations on what we  
23 should be doing with regard to those pools.

24 JOHN MONAGER: All right. So, you sent it  
25 to [REDACTED] We'll grab that and roll.

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1 MARTY VIRGILIO: Yes. Okay.

2 MALE PARTICIPANT: It was quick and dirty,  
3 John. If you can't get water in, dump anything in,  
4 dirty, sand, dolomite, clay, whatever you can get into  
5 those pools.

6 It comes out of a NUREG that Chuck had  
7 referenced us earlier today. So, it's about the best  
8 source you can have at this point in a half an hour.

9 JOHN MONAGER: Okay. Perfect.

10 MARTY VIRGILIO: Good luck.

11 CHUCK CASTO: Hey, Marty?

12 MARTY VIRGILIO: Yes?

13 CHUCK CASTO: This is Chuck.

14 MARTY VIRGILIO: Yes, Chuck.

15 CHUCK CASTO: One (inaudible) came up.

16 Are we interested in any -- and I've got to be careful  
17 here -- [REDACTED] 51

18 [REDACTED]

19 MARTY VIRGILIO: We're working that.

20 MALE PARTICIPANT: [REDACTED]

21 MARTY VIRGILIO: Yes, we're working that.

22 We've been working that all night and trying to see  
23 what's better information we can get off those  
24 (inaudible, possibly [REDACTED]) 51

25 CHUCK CASTO: Yes, who are you working

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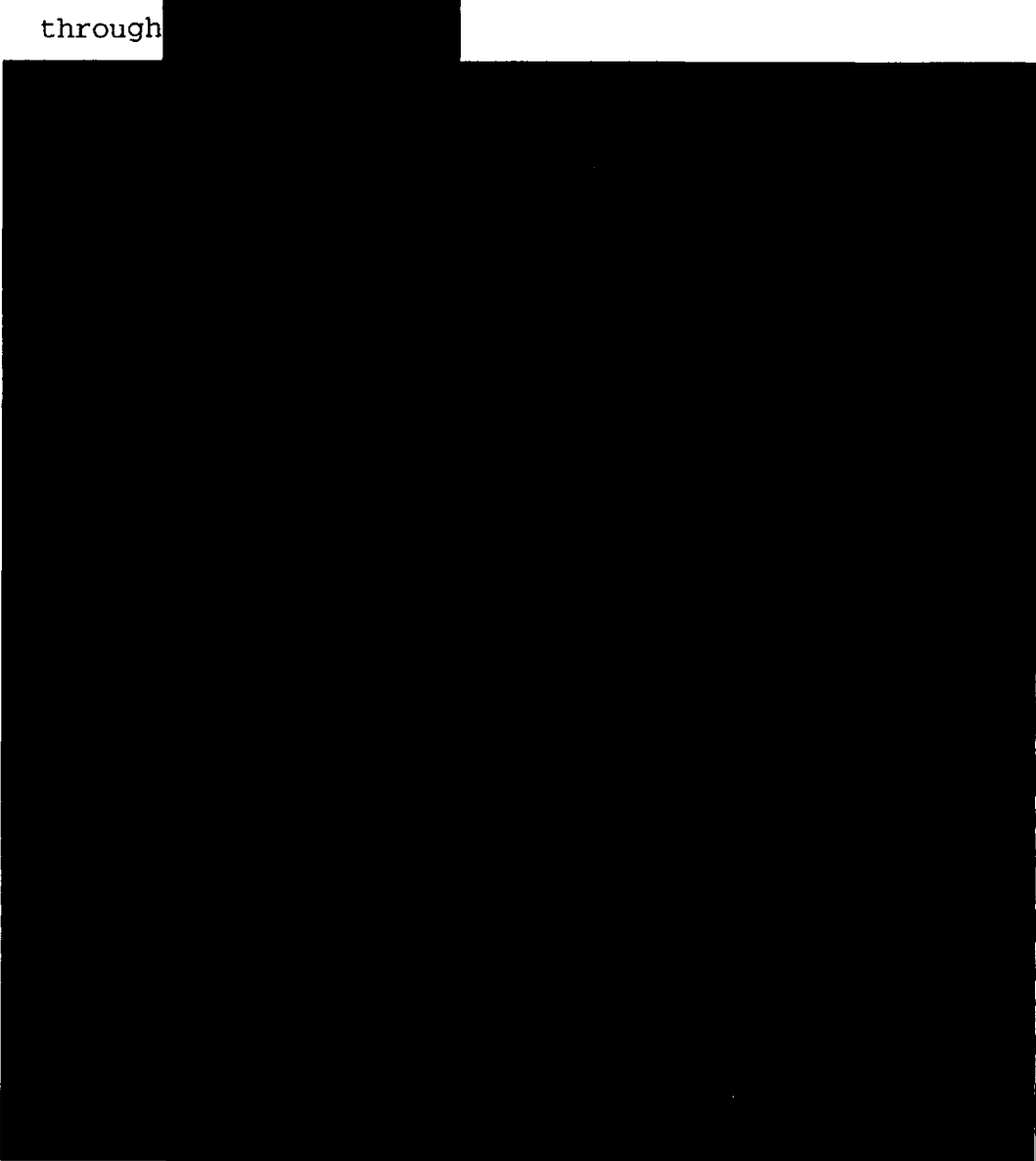
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1 that through?

2 MALE PARTICIPANT: We're working it

3 through



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20 MALE PARTICIPANT: Yes. Okay.

21 MALE PARTICIPANT: Hang on.

22 Chuck, do you need anything else from us?

23 CHUCK CASTO: No. You're working the  
24 Muller issue, right?

25 MALE PARTICIPANT: Yes, we've got Trautman

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5

1 on the line now, and we're going to start engaging  
2 with him.

3 CHUCK CASTO: Okay. Thank you, sir.  
4 We're done.

5 MALE PARTICIPANT: Thank you, Marty.

6 MARTY VIRGILIO: You're welcome.  
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(CONFERENCE CALL INITIATED)

STEVE TRAUTMAN: Hello. This is Steve Trautman. I was trying to reach Dan Dorman.

MARTY VIRGILIO: Steve, it's Marty Virgilio and Dan.

STEVE TRAUTMAN: Hey, Marty, how you doing?

MARTY VIRGILIO: All right. How are you this morning?

STEVE TRAUTMAN: Well, we've been in a while working on this thing based on the events of the day.

Hey, we have been trying to reach Chairman Jaczko because we've got ourselves in a bit of an argument with the NRC reps in Japan. And we'd like to have some engagement with the Chairman to have a direct hashout on this thing.

MALE PARTICIPANT: Okay, but we haven't briefed the Chairman yet.

STEVE TRAUTMAN: You haven't briefed the Chairman on what yet?

MALE PARTICIPANT: On this particular issue. Here's my characterization of where we are.

STEVE TRAUTMAN: Yes.

MALE PARTICIPANT: Naval Reactors

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1 developed a set of talking points that included what  
2 actions needed to be taken and what consequence would  
3 occur if the actions weren't taken. NRC developed a  
4 set of talking points saying this is our assumptions  
5 with regard to the reactors and spent-fuel pools, and  
6 if nothing changes, this is what we see as the  
7 consequence.

8 STEVE TRAUTMAN: And are they the same?

9 [REDACTED]

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]

25 [REDACTED]

19 STEVE TRAUTMAN: Okay. I mean, to me,  
20 they're nearly, they're identical. You talked about  
21 50 miles for protective actions. We talked about  
22 contamination out there, and that was --

23 MALE PARTICIPANT: Exactly. That's  
24 exactly right.

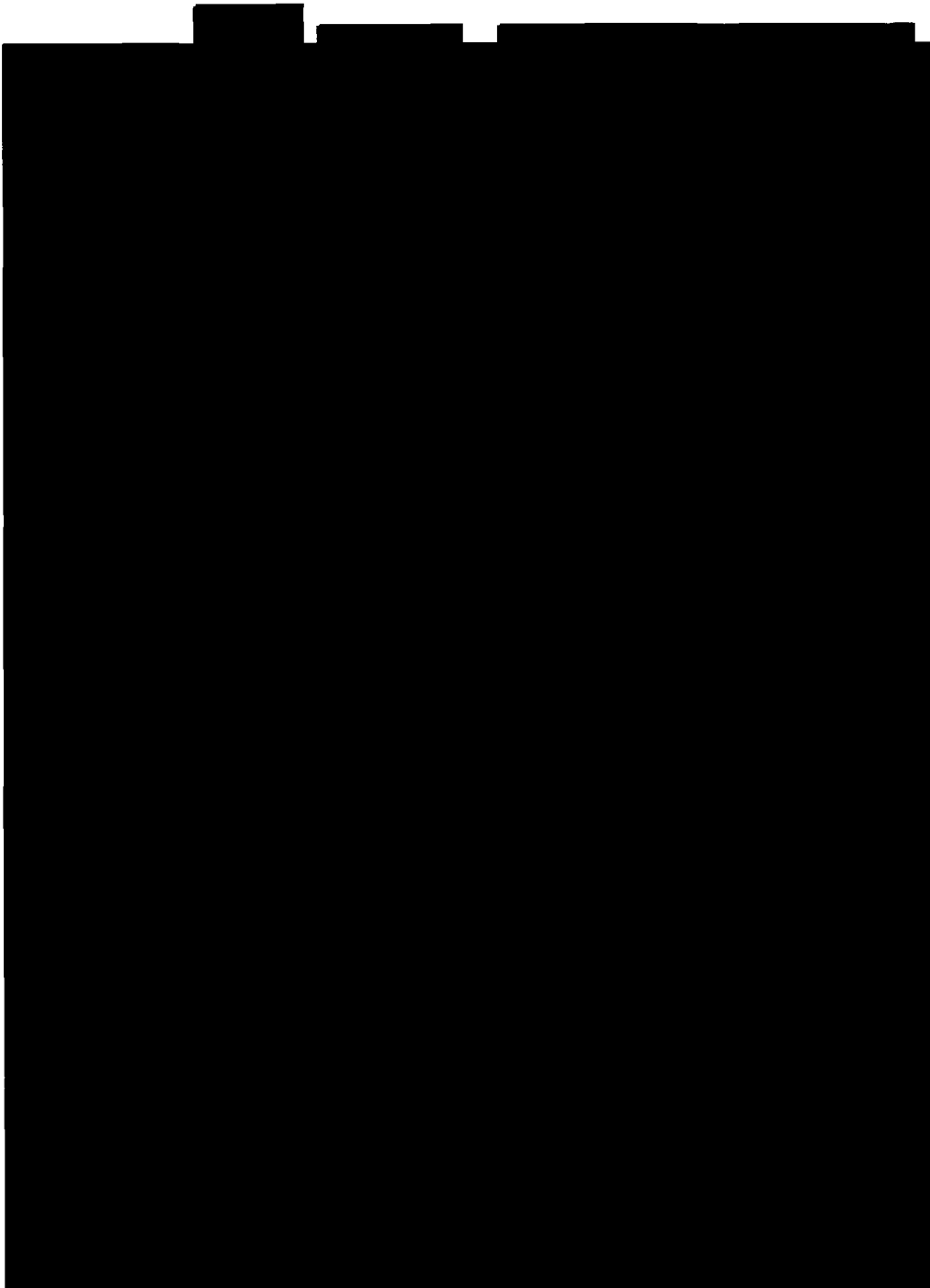
25 STEVE TRAUTMAN: So, they're not apples

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1 and oranges -- or they're not apples and apples.

2 MALE PARTICIPANT: Right.



23 MALE PARTICIPANT: No, I don't see it that  
24 way.

25 STEVE TRAUTMAN: And I wouldn't argue that

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1 you wouldn't. I'm just telling you my guys on the  
2 ground in the conversation with the Ambassador, that's  
3 what they came away with.

4 MALE PARTICIPANT: Okay.

5 STEVE TRAUTMAN: Okay? And so, that's the  
6 kind of engagement we're trying to have. I agree with  
7 you that I don't believe the consequences that both of  
8 our organizations have laid out are different.

9 MALE PARTICIPANT: Right. And I think the  
10 Ambassador, you know, once again focused on the U.S.  
11 citizens, is trying to say, "What should I do for our  
12 people?"

13 STEVE TRAUTMAN: Now, obviously, honest  
14 people can argue the same point many different ways.  
15 And if we end up losing one of these plants, there's a  
16 good possibility we're going to lose all of these  
17 plants --

18 MALE PARTICIPANT: Yes.

19 STEVE TRAUTMAN: -- because you're going  
20 to have to be away. And, right now, everything I've  
21 seen for your consequence is based on a single, it was  
22 based on Plant 2, if I recall correctly. So, I worry  
23 that we may be undershooting here a little bit.

24 And the whole issue that we're trying to  
25 get to is, if this thing goes down badly in the near

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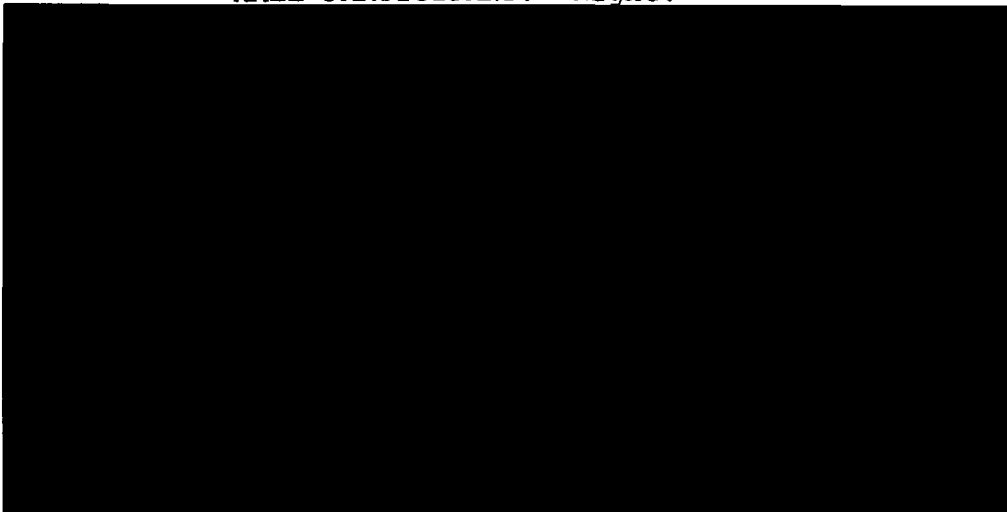
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1 future, there's a lot of American citizens, both  
2 dependents of military as well as others, that we're  
3 going to have to deal with and give advice to.

4 MALE PARTICIPANT: We're with you. What  
5 do you see as the next step?

6 STEVE TRAUTMAN: Well, there is a Deputies  
7 meeting today at eight o'clock.

8 MALE PARTICIPANT: Right.



16 MALE PARTICIPANT: Yes. Now Mike Weber,  
17 who has joined us, is going to be in that eight  
18 o'clock meeting.

19 STEVE TRAUTMAN: Okay.

20 MALE PARTICIPANT: The Chairman is going  
21 to be at a hearing --

22 STEVE TRAUTMAN: Okay.

23 MALE PARTICIPANT: -- downtown this  
24 morning. So, Mike's with us.

25 Mike, do you know Steve?

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1 MIKE WEBER: Yes. Morning, Steve.

2 STEVE TRAUTMAN: Hi, Mike. How are you  
3 doing?

4 MIKE WEBER: Okay.

5 STEVE TRAUTMAN: So, I'm sorry, go ahead.

6 MIKE WEBER: (Inaudible, possibly "Things  
7 are") better than they are in Japan.

8 STEVE TRAUTMAN: Yes, I agree with that.

9 So, that's what I see as the issue here on  
10 the table, is at least our guys' view of what the NRC  
11 guidance has been to the Ambassador, and what our  
12 picture of this has been is they're not consistent.

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20 MALE PARTICIPANT: Right, right.

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[REDACTED]

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MALE PARTICIPANT: As an aside, while you all have been focused on the reactor, this morning we have been focused on the spent-fuel pools.

STEVE TRAUTMAN: Yes, I agree with you, that's --

MALE PARTICIPANT: And we have just provided to our guys over there a list of maybe a half a dozen actions that we are going to be making recommendations to TEPCO --

STEVE TRAUTMAN: Okay.

MALE PARTICIPANT: -- on what's the next best step with regard to those pools.

STEVE TRAUTMAN: I mean I agree with you. Both the spent-fuel pools and the reactors need to be dealt with.

MALE PARTICIPANT: Yes.

STEVE TRAUTMAN: It's not either/or here.

MALE PARTICIPANT: And it sounds like they've lost the integrity of the walls on the Unit 4 pool.

STEVE TRAUTMAN: Yes.

MALE PARTICIPANT: So, it is just fuel at

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1 this point.

2 STEVE TRAUTMAN: Yes, sir.

3 MALE PARTICIPANT: So, we've provided our  
4 best recommendations on how they should be dealing  
5 with that.

6 STEVE TRAUTMAN: Okay.

7 MALE PARTICIPANT: So, just for your  
8 awareness.

9 STEVE TRAUTMAN: All right. I appreciate  
10 that.

11 So, how do we bring this to conclusion, so  
12 that the Ambassador feels like we're on the same page?

13 MALE PARTICIPANT: Well, Mike is here and  
14 Mike will be on the eight o'clock.

15 STEVE TRAUTMAN: Yes, but that's going to  
16 be -- I don't want you guys to have to unscrew this  
17 disagreement during the Deputies' meeting. We've got  
18 to get to the Ambassador and come to some unity prior  
19 to that eight o'clock meeting.

20 MALE PARTICIPANT: And you're wanting to  
21 do that via a call with the Chairman and Admiral  
22 Donald? Or is there some other way you --

23 STEVE TRAUTMAN: The bottom line is, from  
24 my standpoint, if we can come to agreement that we're  
25 on the same page, we just need to figure out how to

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1 get that word back to the -- I mean, if you want, we  
2 can all hook up together with the NRC guy right now on  
3 a bridge, your guy in Japan, so that we can all come  
4 to some mutual agreement. And, then, they can go in  
5 with a unified front to the Ambassador prior to the  
6 eight o'clock meeting.

7 MALE PARTICIPANT: Let's do it.

8 STEVE TRAUTMAN: Okay.

9 MALE PARTICIPANT: Should we set up the  
10 bridge or do you want to do it?

11 STEVE TRAUTMAN: Let me think a minute.

12 MALE PARTICIPANT: We're trying to get  
13 Chuck Casto on the phone now, Steve.

14 STEVE TRAUTMAN: Say that again, please?

15 MALE PARTICIPANT: We're getting Chuck  
16 Casto on the phone. Chuck Casto is the head of our  
17 team over in the Embassy.

18 STEVE TRAUTMAN: Okay. And I will figure  
19 out how to get my -- I will ask my command-and-control  
20 bridge to ask Mr. Muller to call in to your DOE -- or,  
21 I'm sorry - NRC EOC. Will that work? Do you guys  
22 want to set that bridge up?

23 MALE PARTICIPANT: Yes, that will work.

24 STEVE TRAUTMAN: All right. I'll have him  
25 call in right now.

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1 Yes, that's the number, please.

2 All right, we'll have him make that phone  
3 call.

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1 (CONFERENCE CALL INITIATED)

2 STEVE TRAUTMAN: This is Steve Trautman.

3 Mr. Muller should be calling in on a  
4 bridge imminently.

5 MALE PARTICIPANT: Okay. We're still  
6 trying to get Chuck on the line.

7 STEVE TRAUTMAN: Okay.

8 MALE PARTICIPANT: This is the  
9 Headquarters Operations Officer. The team from Japan  
10 has called into the ET conference.

11 MALE PARTICIPANT: Okay. Thank you.

12 MALE PARTICIPANT: Muller just joined the  
13 bridge.

14 MALE PARTICIPANT: Mr. Muller, you have  
15 Mr. Trautman on the bridge.

16 MALE PARTICIPANT: Still on the bridge.

17 MALE PARTICIPANT: Chuck Casto, are you  
18 there?

19 CHUCK CASTO: Yes, I'm here.

20 MALE PARTICIPANT: Okay. I think we're  
21 all patched up together.

22 MALE PARTICIPANT: Okay, if I could try  
23 this, Mike, if that's okay with you?

24 MALE PARTICIPANT: Go for it.

25 MALE PARTICIPANT: Okay. What we've been

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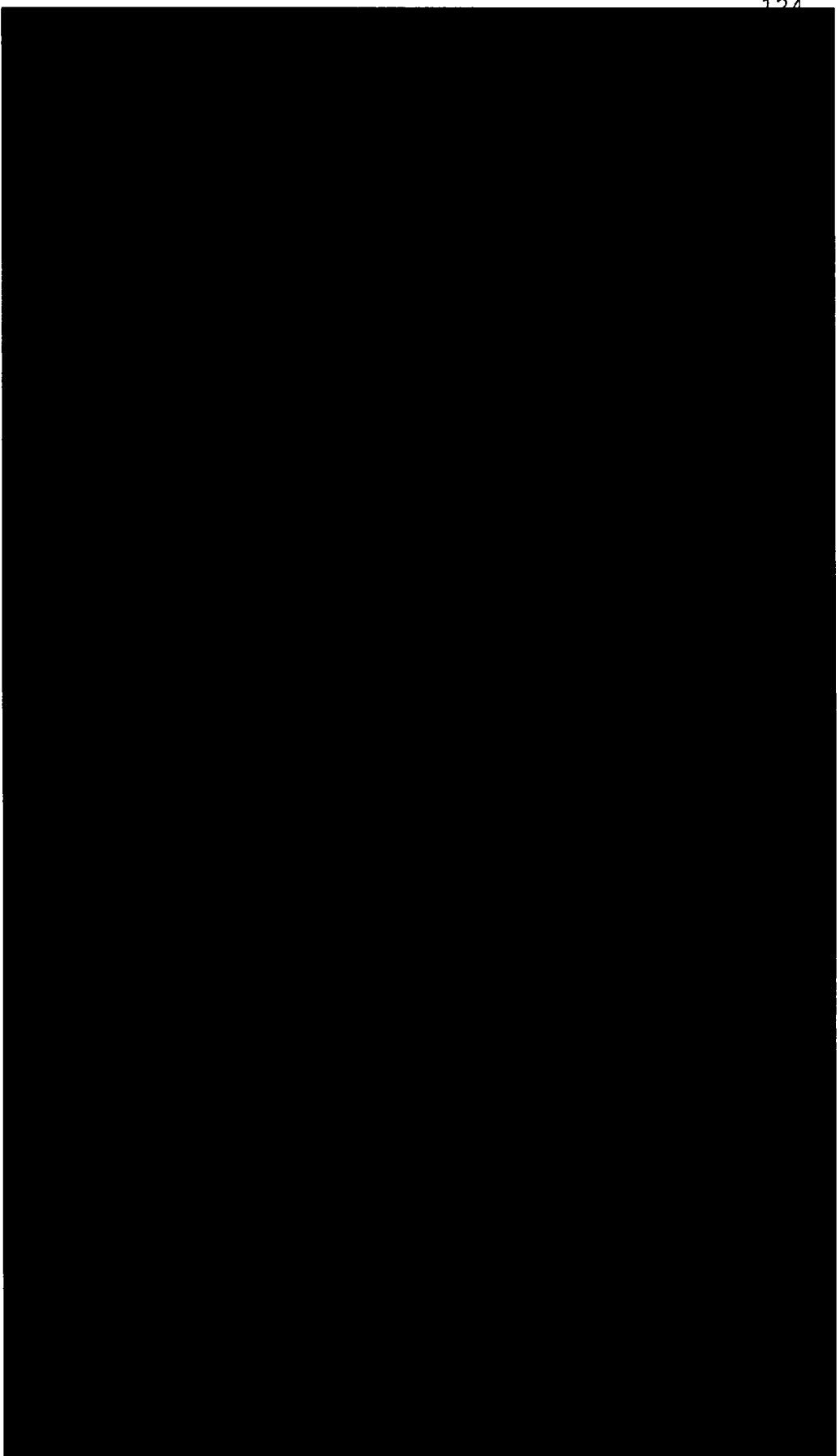
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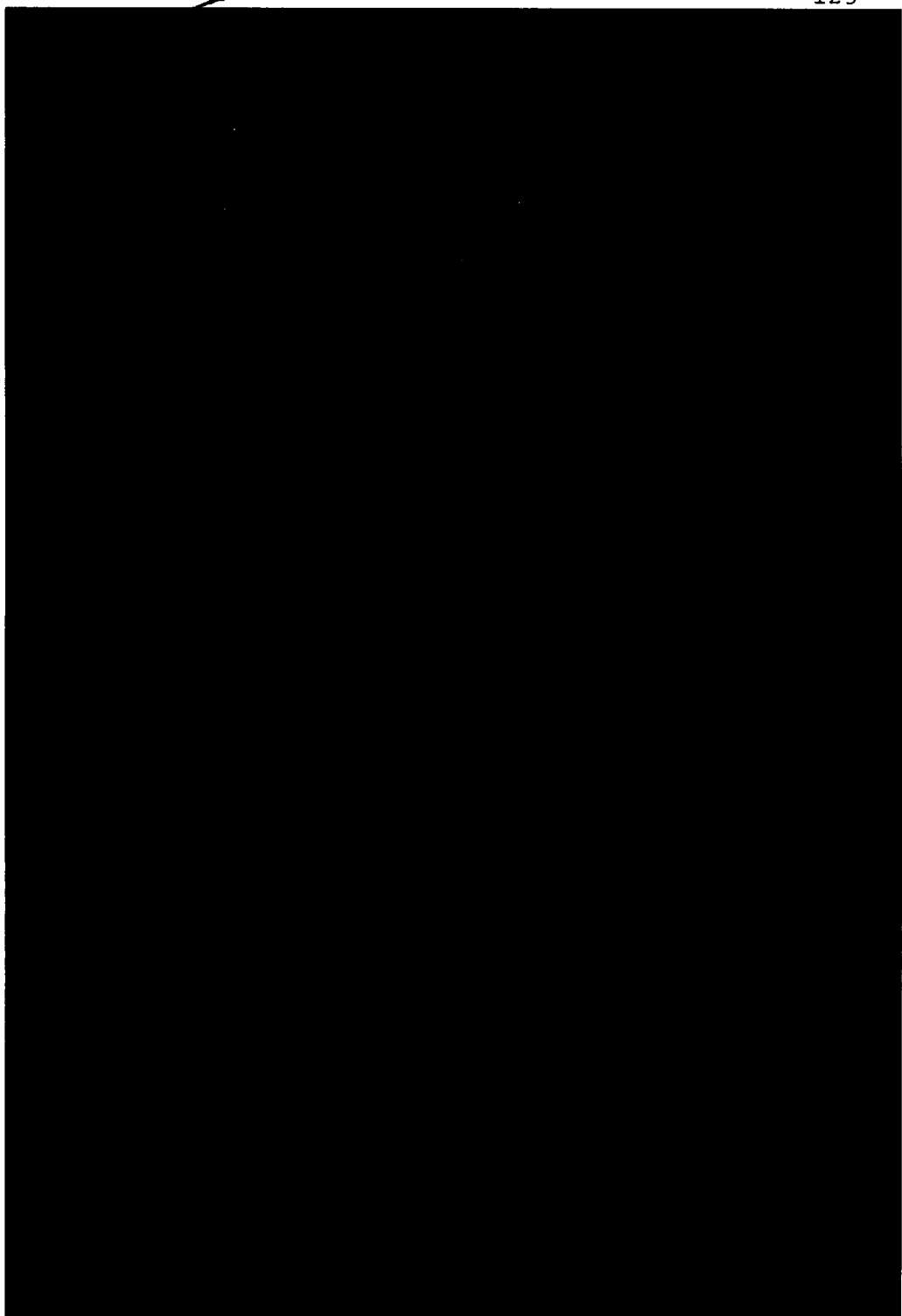
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CHUCK CASTO: Yes, and we agreed on that  
with you on the phone call.

MALE PARTICIPANT: Okay.

CHUCK CASTO: That's urgent. Urgent is to

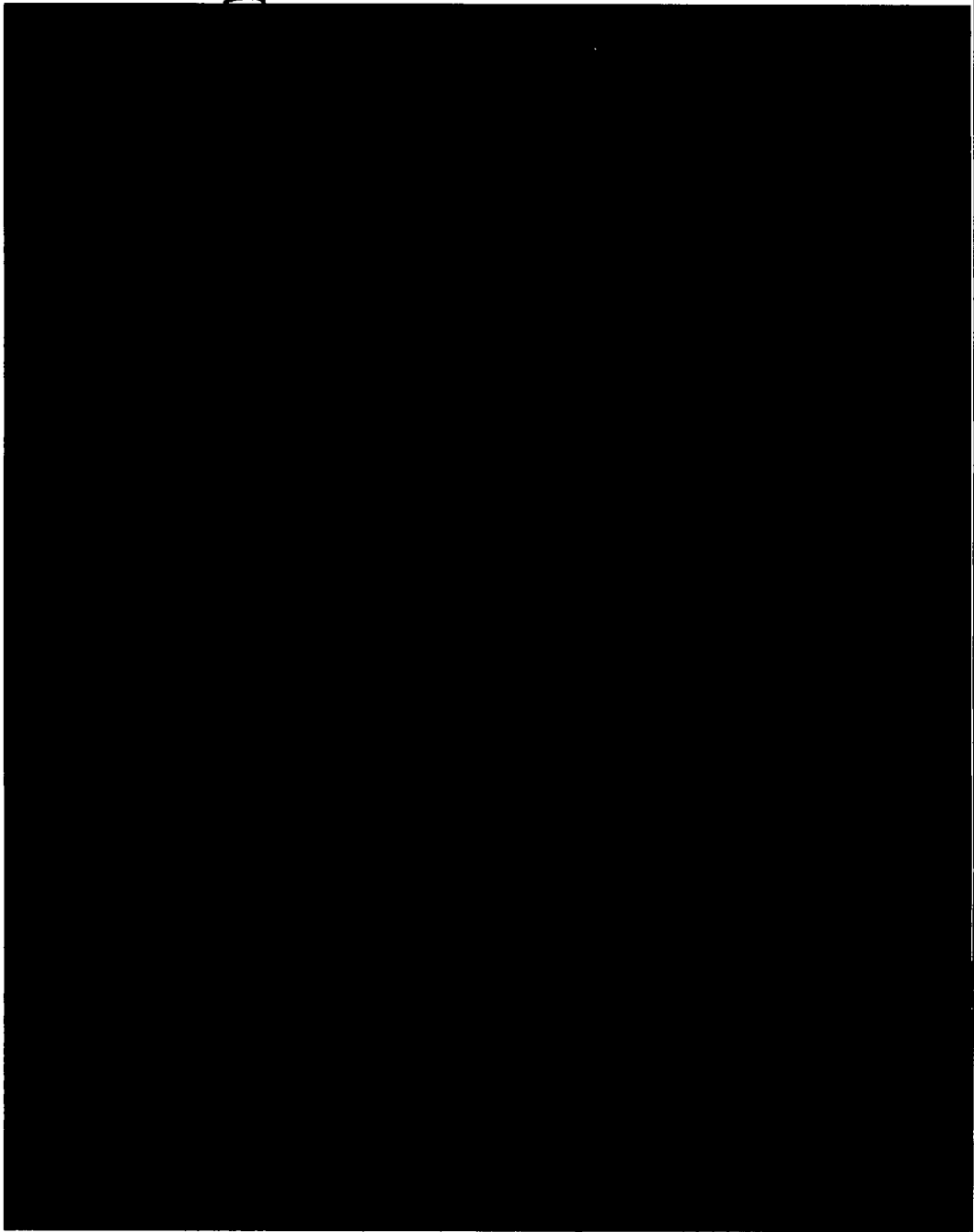
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21 MALE PARTICIPANT: Agree. Recovery is,  
22 yes, that is sort of a different question.

23 MALE PARTICIPANT: It is, but I think  
24 we've got mixes with apples and oranges here. So, we  
25 certainly agree that your paper says PEGs of greater

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14 [REDACTED]

15 [REDACTED]

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18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 MALE PARTICIPANT: Which one then? Maybe

22 headquarters can help me. What is the recommendation

23 on this? I'm looking at page 5 that we're talking

24 about on the 7:30 Eastern Daylight Time. Is that

25 still valid, that recommendation?

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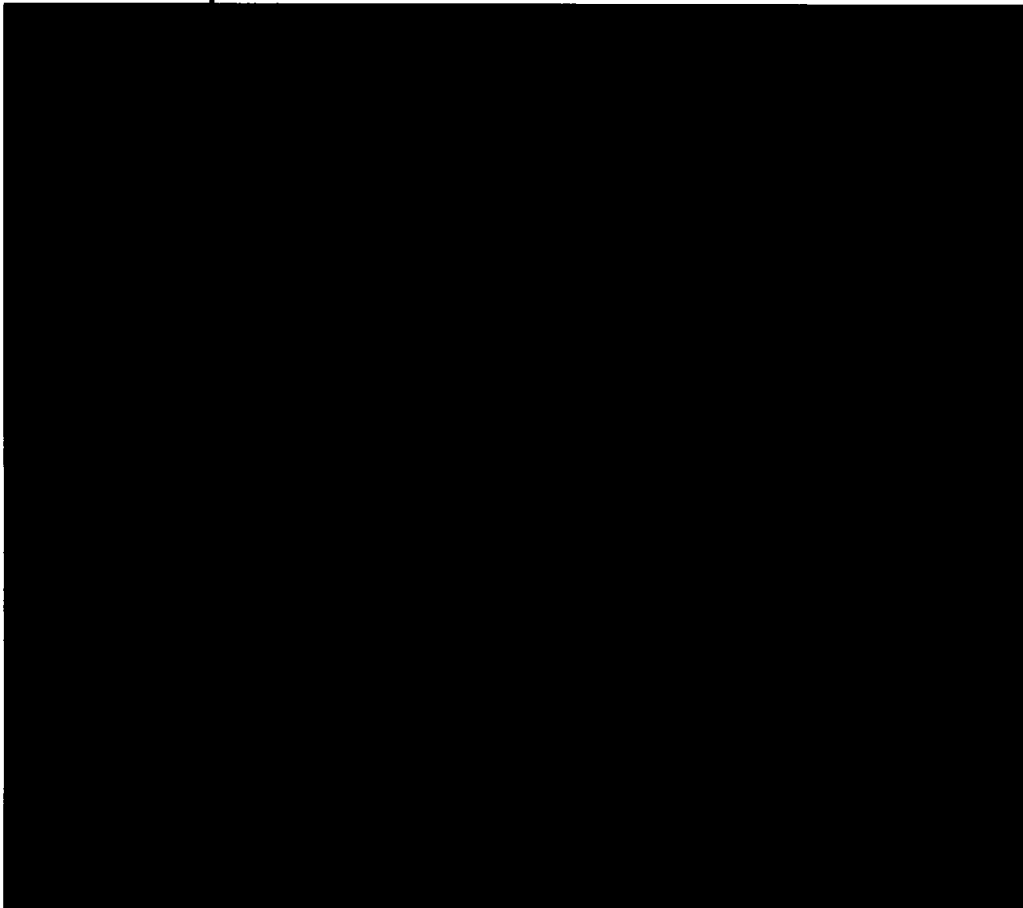
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1 DAN DORMAN: This is Dan Dorman.

2 I would have to -- I don't have that 7:30  
3 in front of me.

4 MALE PARTICIPANT: Well, it's the one that  
5 you issued this morning has the same language.

6 MALE PARTICIPANT: The one that we sent  
7 over this morning was --



21 MALE PARTICIPANT: Yes, that discussion  
22 from 07:30 yesterday, we had, earlier in that mid-  
23 shift yesterday, we had information that we were  
24 inferring to represent an ex-vessel core condition in  
25 Unit 2.

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1 MALE PARTICIPANT: Chairman coming up.

2 MALE PARTICIPANT: That was the driver at  
3 that time. We subsequently had information about 150  
4 pounds in Unit 2. So, I think this morning we were  
5 looking at just the one spent-fuel pool.

6 I understand Chairman Jaczko has joined  
7 us.

8 NRC CHAIRMAN JACZKO: Yes.

9 MALE PARTICIPANT: Good morning, Chairman.

10 MALE PARTICIPANT: Good morning, Mr.  
11 Chairman.

12 MALE PARTICIPANT: How are you?

13 MALE PARTICIPANT: Mr. Chairman.

14 MALE PARTICIPANT: So, which one, Dan?  
15 Which one is valid for right now?

16 DAN DORMAN: I think the one that we sent  
17 over this morning that says evacuation out to 50 miles  
18 is the latest information.

19 MALE PARTICIPANT: But let me interject  
20 for a moment for the Chairman's benefit.

21 Chairman, we have Naval Reactors on, and  
22 we've got our team on in Japan, and we're here at  
23 headquarters of NRC.

24 NRC CHAIRMAN JACZKO: Okay.

25 MALE PARTICIPANT: And the issue is that

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1 the Ambassador thinks that Naval Reactors and NRC have  
2 provided different recommendations to the Ambassador.

3 NRC CHAIRMAN JACZKO: Okay.

4 MALE PARTICIPANT: And the issues that  
5 we're wrestling with are, first, place priority on  
6 taking care of the reactors and the spent-fuel pools,  
7 which are in much degraded condition this morning than  
8 they were last night. And, then, if --

9 NRC CHAIRMAN JACZKO: I'm sorry? They're  
10 in more degraded condition?

11 MALE PARTICIPANT: Yes.

12 NRC CHAIRMAN JACZKO: Okay.

13 MALE PARTICIPANT: And, also, then, the  
14 consequence management piece. But it's a matter of  
15 priority.

16 NRC CHAIRMAN JACZKO: Okay.



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24 STEVE TRAUTMAN: Because everything we're  
25 seeing this morning on media and reports, both at the

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[REDACTED]

We did provide information to the Ambassador about four or five hours ago that says the information that we have, based on the spent-fuel condition, Unit 4, would support evacuation up to 50 miles if the wind changes, which we don't expect before the weekend.

NRC CHAIRMAN JACZKO: Well, are the Japanese currently issuing an evacuation order to 50

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1 miles? [REDACTED]  
2 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
3 [REDACTED]  
4 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
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8 [REDACTED]

9 NRC CHAIRMAN JACZKO: So, right now, based  
10 on what we know, would we be recommending a 50-mile  
11 evacuation?

12 MARTY VIRGILIO: No. No, Chairman.

13 This is Marty.

14 What we're trying to do is get an  
15 assessment from the site as to what is the condition  
16 of those facilities. It's about where we were 24  
17 hours ago.

18 NRC CHAIRMAN JACZKO: Okay.

19 MARTY VIRGILIO: We haven't made a  
20 different recommendation, but what we have is a lot of  
21 unknowns that we're trying to make known.

22 NRC CHAIRMAN JACZKO: At this point, if we  
23 are leaning forward here, do we think this is going to  
24 get better or get worse?

25 MARTY VIRGILIO: It's going to get worse

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1 if you think about the spent-fuel pools. Right now,  
2 Unit 4 doesn't have a spent-fuel pool anymore. It  
3 appears that the walls have crumbled and you've just  
4 got fuel there.

5 NRC CHAIRMAN JACZKO: Okay.

6 MARTY VIRGILIO: And Units 1, 2, and 3, it  
7 appears that they're at various levels in the spent-  
8 fuel pool, and it doesn't appear that they're making  
9 up the levels.

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 STEVE TRAUTMAN: Yes, Mr. Chairman, this  
24 is Steve Trautman again.

25 NRC CHAIRMAN JACZKO: Yes.

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1 STEVE TRAUTMAN: I agree with everything  
2 you have just said. And so, my view of what the  
3 Ambassador needs is two pieces. Exactly what you just  
4 said is [REDACTED] [REDACTED]



15 MARTY VIRGILIO: And, Chairman, where I  
16 think we're complementary with Naval Reactors is they  
17 have provided some good advice with regard to the  
18 reactors and protecting the core, and I think we've  
19 provided the best advice we can with regard to the  
20 spent-fuel pool.

21 NRC CHAIRMAN JACZKO: I'm sorry. So, in  
22 three sentences, tell me what the message is we're  
23 delivering to the Ambassador.

24 MALE PARTICIPANT: We and NR are not  
25 disagreeing.

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1 simpler messages.

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1 NRC CHAIRMAN JACZKO: All right. I think,  
2 Chuck, do you have any good -- are you guys getting  
3 any access at all?

4 CHUCK CASTO: Very little.

5 NRC CHAIRMAN JACZKO: Okay. Here's where  
6 I think we are: this is not, in my mind, going to get  
7 better. Does anyone disagree with that?

8 MALE PARTICIPANT: No.

9 NRC CHAIRMAN JACZKO: This is going to  
10 progress to the point at which we probably have, we, I  
11 think, have to assume at this point that we're going  
12 to have three reactors out of control and possibly up  
13 to six spent-fuel pools.

14 MALE PARTICIPANT: Agreed.

15 NRC CHAIRMAN JACZKO: I think we need to  
16 take whatever actions are necessary to deal with that.

17 That is the message I think we need to deliver to the  
18 Ambassador as soon as possible. If that involves a  
19 general evacuation of U.S. citizens, we need to  
20 instruct that to be done immediately.

21 Does anyone disagree with that?

22 ADMIRAL DONALD: Chairman, this is Admiral  
23 Donald at Naval Reactors.

24 I agree with you.

25 NRC CHAIRMAN JACZKO: Okay. Let's get

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1 that message to the Ambassador.

2 Ops Center, I need you to get me on the  
3 line with Admiral Donald to the White House  
4 immediately.

5 MALE PARTICIPANT: Yes, sir.

6 NRC CHAIRMAN JACZKO: I need [REDACTED]

7 MR. MULLER: This is Muller.

8 That still doesn't take care of the cores  
9 and mobilizing their military to do so.

10 NRC CHAIRMAN JACZKO: Right now, I'm going  
11 to be worried about the U.S. citizens. That's a  
12 secondary matter with the core.

13 MALE PARTICIPANT: Mr. Chairman, I don't  
14 think we could practically get them out of here.

15 NRC CHAIRMAN JACZKO: Well, that's what --  
16 I want that information going out, and, then, we are  
17 going to have to deal with how we deal with that.

18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 NRC CHAIRMAN JACZKO: Okay.

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1 MALE PARTICIPANT: Second, we have to be  
2 considering actions, moving in the direction of  
3 actions to evacuate American citizens.

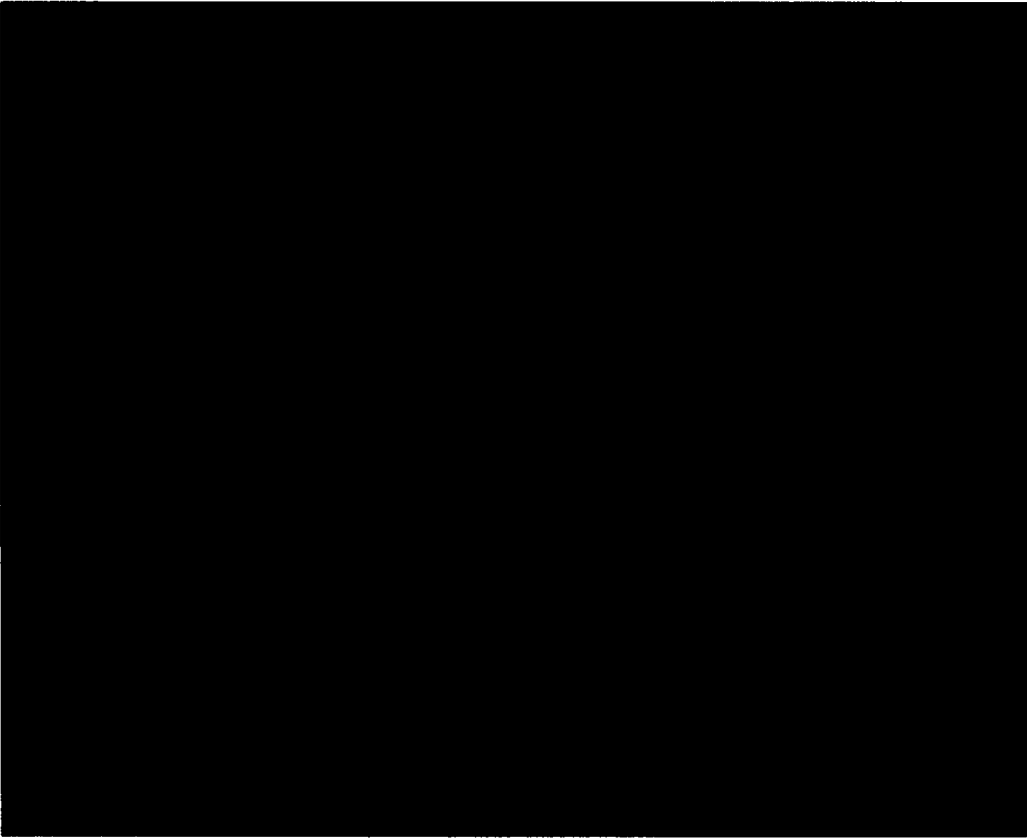
4 NRC CHAIRMAN JACZKO: Okay, good. That's  
5 fine. I'm fine with that.

6 CHUCK CASTO: To what degree?

7 This is Chuck Casto.

8 To what degree the American citizens out  
9 of Japan?

10 NRC CHAIRMAN JACZKO: At this point, I  
11 think, well, Chuck, you've got to give me a  
12 recommendation here. I'm not there and I'm don't have  
13 any information right in front of me.



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1 [REDACTED]  
2 NRC CHAIRMAN JACZKO: Okay. Well, I think  
3 -- and I appreciate that, Admiral Donald -- I think  
4 that's not something that the NRC can do.

5 ADMIRAL DONALD: Correct.

6 NRC CHAIRMAN JACZKO: What I need to do is  
7 just make sure that the White House knows what our  
8 recommendation is at this point. And I appreciate  
9 that that's going to lead to a lot of activity and a  
10 lot of other action, but I think we need to get that  
11 message as quickly as possible.

12 ADMIRAL DONALD: I agree.

13 NRC CHAIRMAN JACZKO: For your background,  
14 other countries -- I think right now what we're  
15 talking about is the status of U.S. personnel in  
16 Japan, not necessarily evacuations outside or around  
17 the facility, et cetera. If we still believe that 50  
18 miles is the appropriate distance, then we can also  
19 have that as a message, but I think there's broader  
20 U.S. personnel issues that need to be addressed.

21 BILL BORCHARDT: Yes, Chairman, this is  
22 Bill Borchardt.

23 If this happened in the U.S., we would go  
24 out to 50 miles. That would be our evacuation  
25 recommendation.

1 NRC CHAIRMAN JACZKO: Okay.

2 BILL BORCHARDT: And I think that would be  
3 the appropriate guidance to give the Ambassador to  
4 pass on at this point.

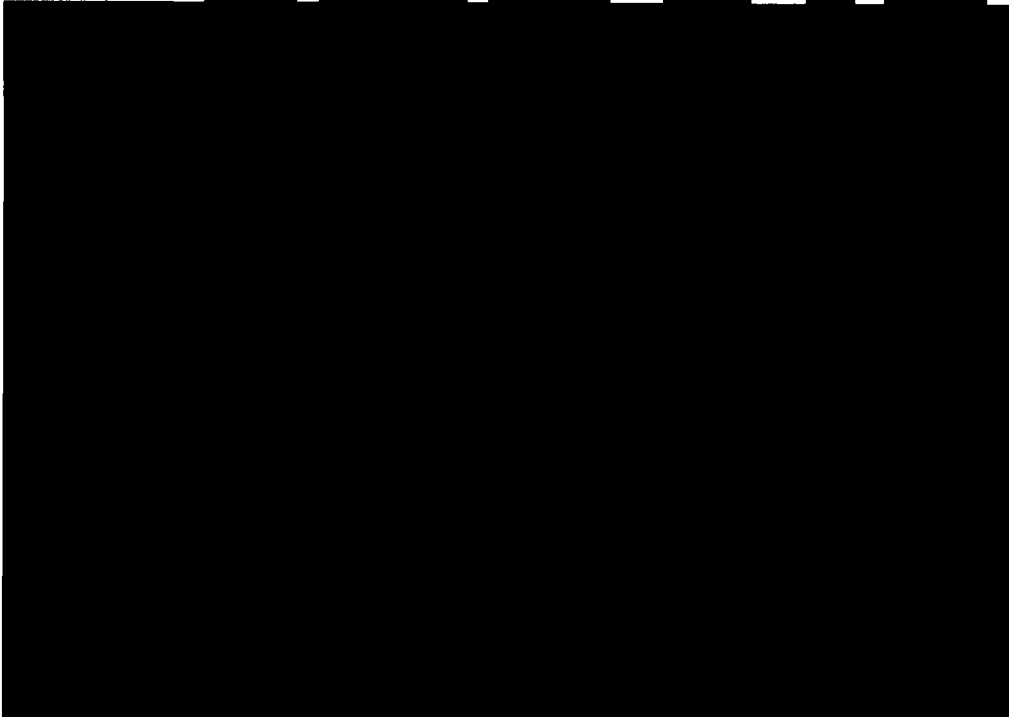
5 NRC CHAIRMAN JACZKO: Okay.

6 MALE PARTICIPANT: But I would think  
7 you're also passing out KI to everyone else as well.

8 MALE PARTICIPANT: Not necessarily.

9 MALE PARTICIPANT: I don't know that we  
10 have enough KI.

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22 Is that correct?

23 MALE PARTICIPANT: Just to put a finer  
24 point on No. 2, Chairman, also the spent-fuel pools.

25 NRC CHAIRMAN JACZKO: And the spent-fuel

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1 pools.

2 MALE PARTICIPANT: Chairman, I think as  
3 far as the evacuation is concerned, 50 miles as a  
4 starting point, I think that is suitable for your  
5 recommendation. I think, again, the DC and the larger  
6 group is going to have to discuss how do we deal and  
7 what procedures do we put in place to start moving  
8 toward the larger evacuation that could have to occur  
9 if this thing goes really badly.

10 NRC CHAIRMAN JACZKO: Yes. And I think  
11 that, at this point, as I said, I think we want at  
12 this point to lean forward in that regard, that at  
13 this point [REDACTED]

14 [REDACTED]

15 MALE PARTICIPANT: Okay.

16 NRC CHAIRMAN JACZKO: So, that is a fourth  
17 message. Okay?

18 MALE PARTICIPANT: If somebody could type  
19 those up and put those to me in an email, just so I  
20 get them right?

21 MALE PARTICIPANT: We're working on them.

22 MALE PARTICIPANT: Send it here, too.  
23 Send it to NR, too.

24 NRC CHAIRMAN JACZKO: And again, let me  
25 just be clear. Does anybody disagree with those four

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1 statements?

2 MALE PARTICIPANT: Do it.

3 ADMIRAL DONALD: Chairman, this is Admiral  
4 Donald.

5 I agree with those four statements.

6 NRC CHAIRMAN JACZKO: Okay. Thank you.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the  
Headquarters Operations Officer.

Chairman, we have [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] Is there a specific individual  
you would like to speak with?

NRC CHAIRMAN JACZKO: [REDACTED]

MALE PARTICIPANT: [REDACTED]

NRC CHAIRMAN JACZKO: [REDACTED] [REDACTED]  
[REDACTED]

MALE PARTICIPANT: [REDACTED]

NRC CHAIRMAN JACZKO: Yes.

MALE PARTICIPANT: Roger that, sir. Stand  
by.

Chairman Jaczko, when you're ready, sir, I  
can transfer your cell from the Admiral to a separate  
conference bridge along with the White House Situation  
Room.

NRC CHAIRMAN JACZKO: If we can keep  
everybody else on, just so we have the background,  
that's fine.

MALE PARTICIPANT: All right, sir. You  
want everyone on the ET?

NRC CHAIRMAN JACZKO: Yes.

MALE PARTICIPANT: Roger that, sir.

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1 NRC CHAIRMAN JACZKO: Just one voice  
2 speaking, Admiral Donald or myself.

3 MALE PARTICIPANT: Put a mute on that,  
4 please.

5 MALE PARTICIPANT: Okay, sir.

6 NRC CHAIRMAN JACZKO: Again, now that  
7 everybody's had a chance to catch their breath -- am I  
8 still on the bridge?

9 MALE PARTICIPANT: You're still on the  
10 bridge, sir.

11 NRC CHAIRMAN JACZKO: Now that everybody's  
12 had a chance to catch their breath, is there anybody  
13 who disagrees with those four points?

14 MALE PARTICIPANT: Mr. Chairman, we were  
15 just talking about the fourth point.

16 NRC CHAIRMAN JACZKO: Yes.

17 MALE PARTICIPANT: And I guess it [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 NRC CHAIRMAN JACZKO: Yes, that's a  
23 decision we'll leave up to the Administration.

24 MALE PARTICIPANT: Okay.

25 NRC CHAIRMAN JACZKO: How they do that.

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1 But, again, does anyone disagree with me  
2 making those four statements?

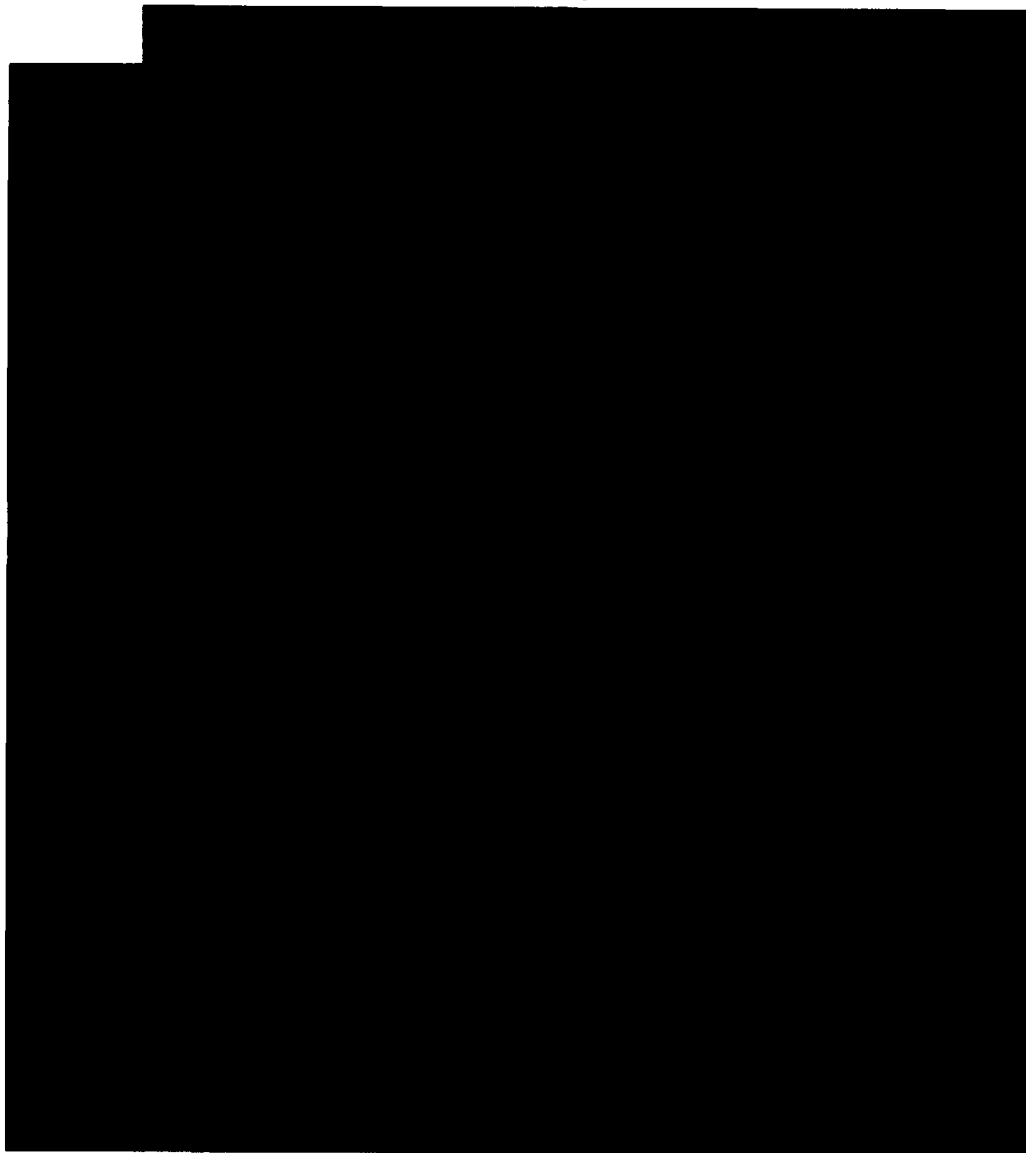
3 MALE PARTICIPANT: No.

4 BILL BORCHARDT: No disagreement here,  
5 sir.

6 NRC CHAIRMAN JACZKO: Thank you.

7 BILL BORCHARDT: Chairman, Bill Borchardt  
8 here.

9 NRC CHAIRMAN JACZKO: Yes?



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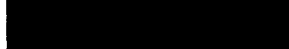
NRC CHAIRMAN JACZKO: Admiral Donald, are  
you on?

ADMIRAL DONALD: I'm on.



MALE PARTICIPANT: Mr. Chairman, they're  
working on it. They do have the Situation Room on the  
line and they'll relay that message.

MALE PARTICIPANT: Hey, Chairman, this is  
the Headquarters Operations Officer.

 is coming up on the  
conference very soon.

NRC CHAIRMAN JACZKO: Okay, great.

MALE PARTICIPANT: Yes.

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1 [REDACTED]  
2 [REDACTED]: Greg, this is [REDACTED] 6

3 How are you?

4 NRC CHAIRMAN JACZKO: I have four points  
5 to relay to you. I want to get them clear. I've got  
6 a couple of other people on the line just to make sure  
7 we get them right.

8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 And, No. 2 --

14 [REDACTED] Greg, is this for the  
15 reactor at Daiichi or is this broader than that? 5

16 NRC CHAIRMAN JACZKO: I would just say  
17 right now it's broader to the entire site.

18 [REDACTED] Okay.

19 NRC CHAIRMAN JACZKO: Yes, the entire, the  
20 reactors and the spent fuel at Daiichi.

21 No. 2 -- 6

22 [REDACTED] And that is as of, let's  
23 say, seven o'clock this morning?

24 NRC CHAIRMAN JACZKO: I'd say probably as  
25 of 6:45 this morning.

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1 [REDACTED] Got it.

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

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 Actually, No. 3 or No. 4?

24 [REDACTED] I'm on No. 3: recommend

25

evacuation 50 miles.

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ADMIRAL DONALD: And, plus -- this is

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1 Admiral Donald of Naval Reactors -- the effort that  
2 it's going to take and the time that it's going to  
3 take to be able to do something like that, we really  
4 have to get things moving sooner rather than later.

5 NRC CHAIRMAN JACZKO: [REDACTED] are those  
6 points clear?

7 [REDACTED] They are, Greg. Let me  
8 check them back off for you.

9 [REDACTED]  
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]  
25 [REDACTED]

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MALE PARTICIPANT: [REDACTED] has joined  
the conference, sir.

6

[REDACTED] Hey, [REDACTED] good morning.  
This is [REDACTED] I've got Greg and Admiral Donald of  
Naval Reactors and a few others on the line.

6

I guess I'll turn to you, Greg, to turn  
those four items back over to John, Greg.

6

NRC CHAIRMAN JACZKO: Okay. Hi, [REDACTED]

[REDACTED] Hi there, Greg.

NRC CHAIRMAN JACZKO: There's four items  
that right now I have concurrence from my team here at

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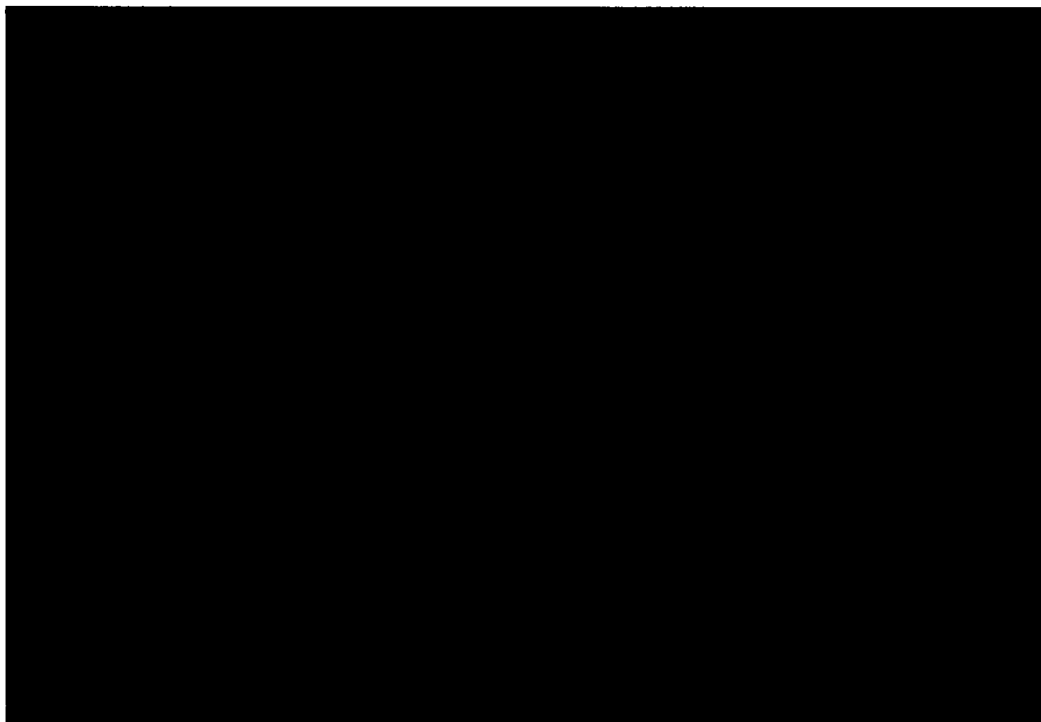
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1 the NCR as well as my team in Japan, as well as  
2 concurrence of Naval Reactors.



13 And, No. 4, given the likelihood that --

14 [REDACTED] I'm sorry, Greg. You broke  
15 up there. You're going to have to go start again.

16 And I just spoke to [REDACTED] and  
17 he's going to get on the line now.

18 NRC CHAIRMAN JACZKO: Okay.

19 [REDACTED] Because it sounds like this  
20 is important. So, I think he's going to be added.

21 NRC CHAIRMAN JACZKO: Each time I repeat  
22 it I get better at it.

23 (Laughter.)

24 MALE PARTICIPANT: Greg, I'm sorry, what  
25 was that last?

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1 NRC CHAIRMAN JACZKO: I'm sorry?

2 MALE PARTICIPANT: What was that last  
3 transmission? I didn't copy.

4 [REDACTED] I'm sorry. [REDACTED]  
5 is going to be joining us momentarily. So, I think  
6 we'd wait.

7 MALE PARTICIPANT: Okay. Got it.

8 Can I ask one question in the interim?  
9 Have you chatted with your colleagues at DOE, and do  
10 they concur with your assessment?

11 NRC CHAIRMAN JACZKO: I have not. We can  
12 work to get them on the line as well. I just thought  
13 it was important to relay this as soon as possible.

14 MALE PARTICIPANT: No, no, I agree. I  
15 just wanted to make sure that I hadn't blocked up  
16 here.

17 NRC CHAIRMAN JACZKO: I actually tried to  
18 get some sleep tonight. So, I got woken up to this.  
19 It sounds like it was (inaudible).

20 MALE PARTICIPANT: We'll (inaudible,  
21 possibly "work after" or "factor") DOE through our  
22 protective (inaudible, possibly "interest")  
23 (inaudible).

24 NRC CHAIRMAN JACZKO: Okay. Good. Thank  
25 you.



1 [REDACTED] you on yet?

2 [REDACTED] Yes, I'm here, John.

3 [REDACTED] Okay. Good.

4 NRC CHAIRMAN JACZKO: Okay, I'll start  
5 again.

6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]  
9 [REDACTED]  
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]

25 [REDACTED] And

1 furthermore, it appears that this event will likely  
2 only get worse, and not better, at this point.

3 And again, if I can just have my team,  
4 Chuck and everybody, anybody disagree with those  
5 statements as I've said them?

6 MALE PARTICIPANT: Chuck stepped out. He  
7 went to talk to the Ambassador, and we have no, the  
8 folks in the room have no comments.

9 NRC CHAIRMAN JACZKO: Okay. Thank you.

10 So, those are the four messages I wanted  
11 to deliver.

12 ADMIRAL DONALD: This is Admiral Donald  
13 from Naval Reactors.

14 And I agree with those messages.

15 [REDACTED] Greg, when you say it's  
16 only likely to get worse, not better, and thinking  
17 about the general evacuation of U.S. citizens from  
18 Japan, I ask, once again, what do you see now as the  
19 worst scenario as far as what the impact will be on  
20 Japan?

21 NRC CHAIRMAN JACZKO: At this point, I  
22 would see a worst scenario probably being three  
23 reactors eventually having, for lack of a better term,  
24 a meltdown. So, the reactors would likely eventually,  
25 you would eventually breach primary containment and

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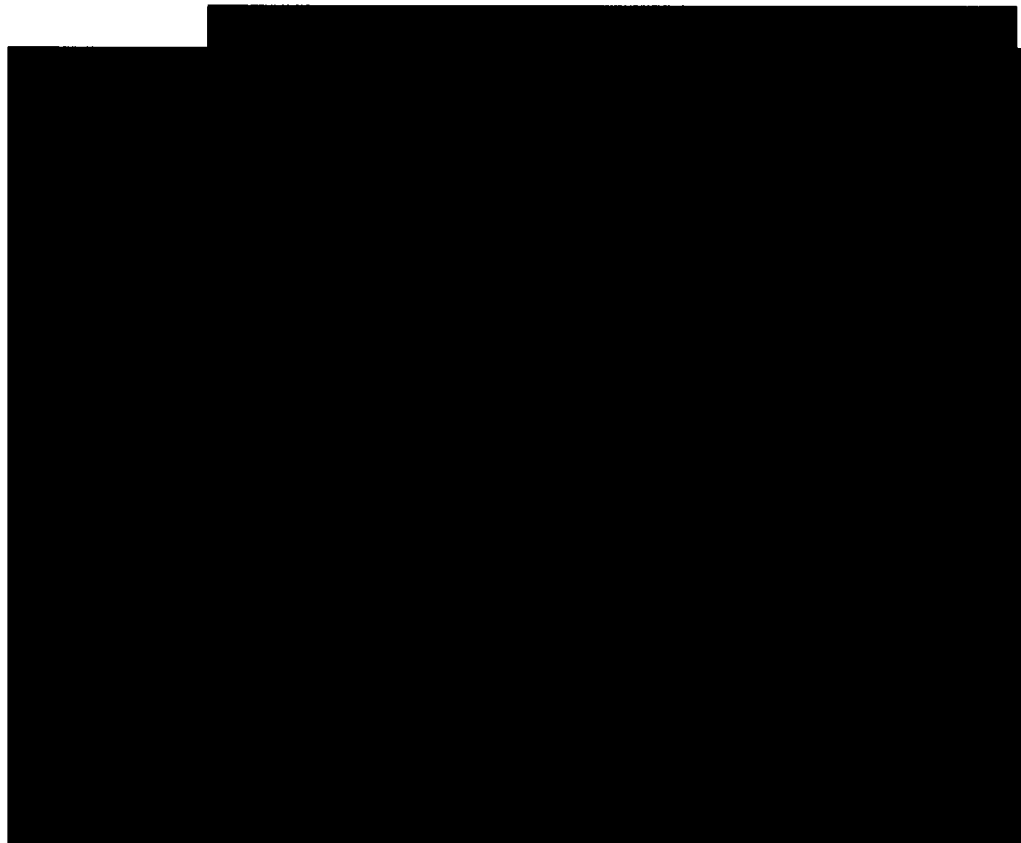
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1 have some type of release. Again, it's difficult to  
2 predict the magnitude of that released, coupled with  
3 potentially up to six spent-fuel pools in a degraded  
4 condition, possibly with spent-fuel pool fires. Those  
5 are all significant events.



18 Three reactors melting  
19 down, six spent-fuel ponds go up in flames. And what,  
20 then, would be the impact for Tokyo, for example, if  
21 the wind kept blowing in that direction?

22 NRC CHAIRMAN JACZKO: At this point, I  
23 think I would still go with the 50 miles right now is  
24 what we see as the actual direct evacuation. But it  
25 is uncertain and it would possibly have to get beyond

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1 50 miles. I don't know that we've run a model out yet  
2 to Tokyo.

3 But, again, we looked last night at one  
4 reactor having essentially a core melt. That took us  
5 out to 50 miles. If you add in two other reactors, it  
6 doesn't necessarily -- it essentially adds additional  
7 doses. And so, you don't necessarily go that much  
8 farther with adding an additional reactor in. And a  
9 spent-fuel fire doesn't seem to be one that would take  
10 you out to 50 miles at this point, based on our  
11 analyses.

12 But I would caution -- and, again, for the  
13 fourth statement -- part of this is just simply we  
14 just don't know the condition of the core. We don't  
15 know the condition of the spent fuel. We don't have  
16 the direct details to really, truly do very accurate  
17 modeling.

18 So, these are, we think, conservative  
19 estimates at this point, but, you know, it's possible  
20 we're off by a little bit in a way that could have a  
21 significantly-larger implication. So, I think it's  
22 important to start thinking [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

23 [REDACTED]

24 [REDACTED]  
25 [REDACTED]

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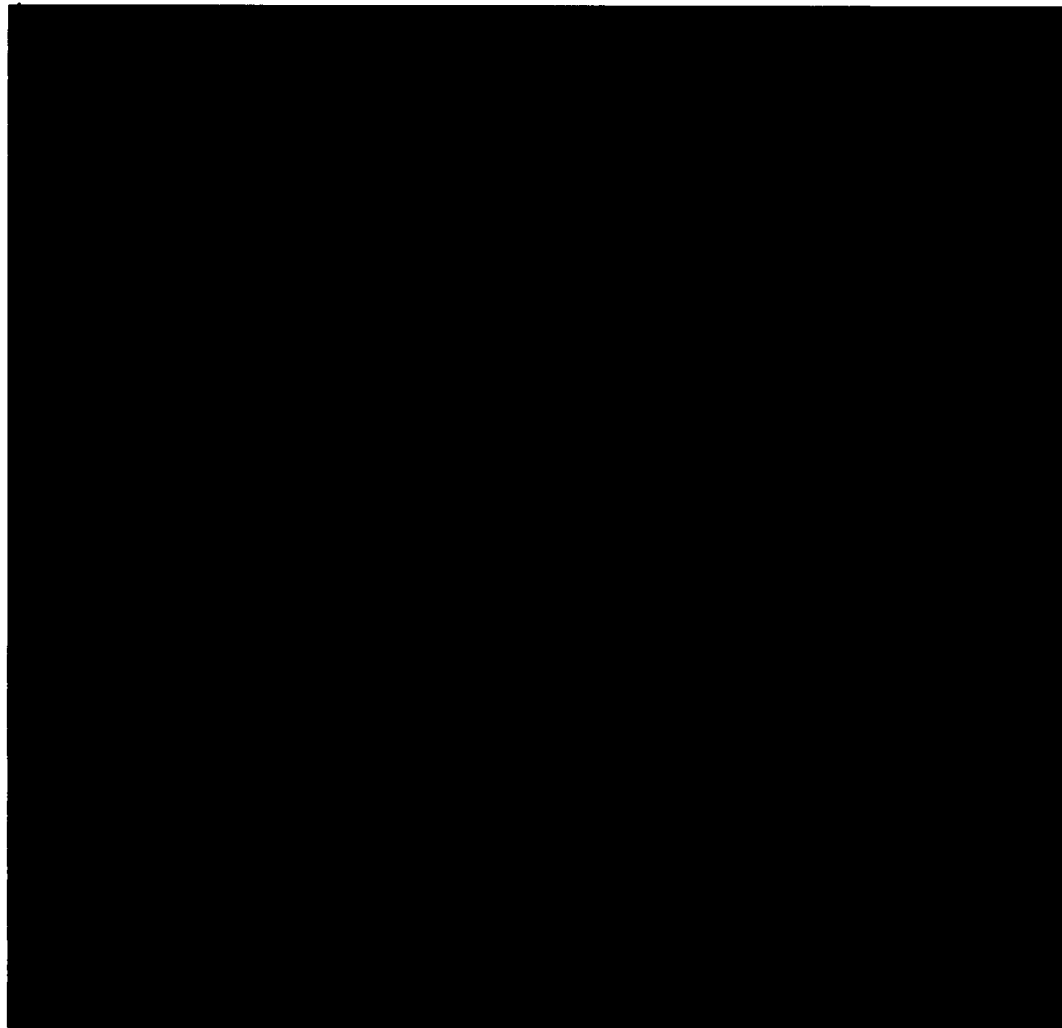
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1 [REDACTED]  
2 [REDACTED] I think that's something that we would have to  
3 continue to work through and work with the various  
4 parties that would need to be involved to do something  
5 like that.

6 [REDACTED] So, there would be no  
7 impact on the U.S. homelands, Hawaii, Alaska?

8 NRC CHAIRMAN JACZKO: No. And again, I  
9 would ask anybody on my team here to concur or refute  
10 that statement.



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[REDACTED]

[REDACTED] Did you say that [REDACTED]  
[REDACTED] is aware of this information now?

NRC CHAIRMAN JACZKO: I believe he has  
been given by the NRC team the same points that I just  
reiterated to you.

[REDACTED] Greg, it's [REDACTED].

NRC CHAIRMAN JACZKO: Hi.

[REDACTED] When you give us those  
points, are you saying that you see those points being  
public or those are just what your data tells you  
right now?

NRC CHAIRMAN JACZKO: Those points are --  
I'm sorry, I didn't quite follow that.

[REDACTED]

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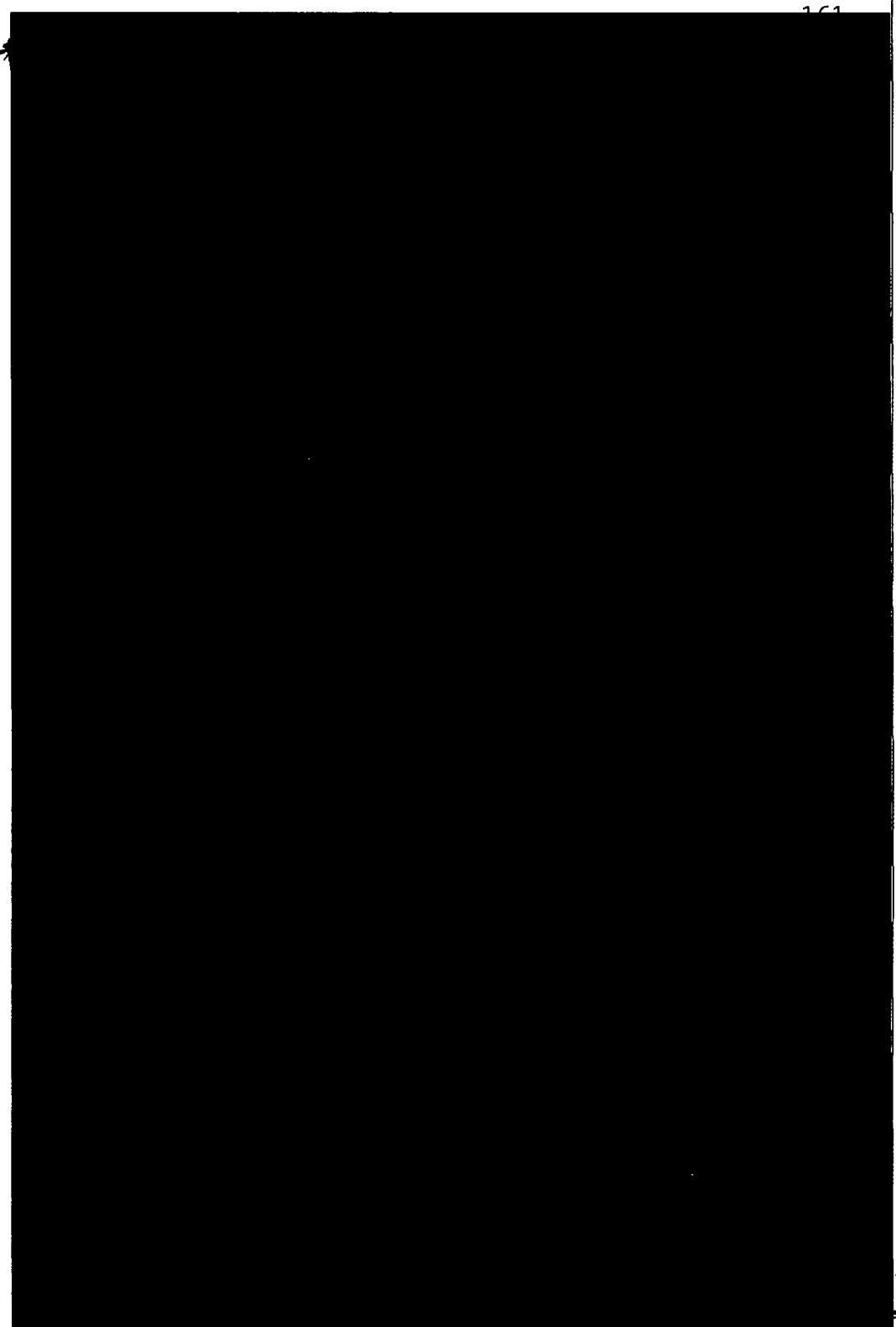
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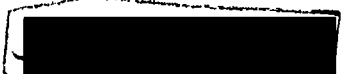
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So, do you guys, what's  
your view, Greg, on the fire in Unit 4 last night and  
the cause of that?

6

1 NRC CHAIRMAN JACZKO: If we can have,  
2 Marty or Mike, if you could answer that question? I  
3 have some of our technical folks on the line.

4 Mike, can you answer that question?

5 MIKE WEBER: Can you repeat the question,  
6 please?

7 [REDACTED] What do you assess was  
8 the cause of the fire in Unit 4 last night?

9 MIKE WEBER: [REDACTED]  
10 [REDACTED]  
11 [REDACTED]

12 MALE PARTICIPANT: [REDACTED]

13 MIKE WEBER: [REDACTED]  
14 [REDACTED]

15 Yes. Okay. So, it is  
16 in spent fuel rather than --

17 MIKE WEBER: That's right. The pool  
18 structure is no longer in existence. The walls have  
19 collapsed. So, you have spent fuel sitting there in a  
20 pile.

21 [REDACTED] Yes. Okay. Is State on  
22 the call?

23 MALE PARTICIPANT: State is not on the  
24 call.

25 [REDACTED] Okay.

MALE PARTICIPANT: But we have our team

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1 there in Japan, and they are working to brief the  
2 Ambassador.

3 [REDACTED] [REDACTED] Yes. Okay. And  
4 Reactors, how have you guys communicated this through  
5 DoD channels?

6 ADMIRAL DONALD: Sir, I've just had my  
7 Deputy brief the CNO just in the last couple of  
8 minutes, and the CNO will get it up to the Secretary  
9 of Defense.

10 [REDACTED] Okay.

11 ADMIRAL DONALD: I've also got Admiral  
12 Willard from PACOM calling in, in a couple of minutes  
13 here, and I'll brief him as well.

14 [REDACTED] Okay. Okay.

15 So, John, I think we ought to go ahead and  
16 get on the phone with [REDACTED] at least, if not [REDACTED]

17 [REDACTED] and [REDACTED]

18 [REDACTED] Yes.

19 [REDACTED] on?

20 [REDACTED] I don't believe so.

21 [REDACTED] is on.

22 [REDACTED] Okay.

23 Greg, will you just type up your four  
24 points and send them over?

25 NRC CHAIRMAN JACZKO: Okay, I will.

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1 [REDACTED] Then, [REDACTED], why don't we  
2 grab, why don't we hang up and then grab [REDACTED]  
3 and see if we can get [REDACTED]

4 [REDACTED] Yes.

5 [REDACTED] And we'll get --

6 [REDACTED] Hey, [REDACTED]

7 [REDACTED] Yes?

8 [REDACTED] This is [REDACTED]

9 Should we approach the 0800 (inaudible),  
10 the Deputies?

11 [REDACTED] What do you think, [REDACTED]

12 We probably should.

13 [REDACTED] Well, I have a -- probably,  
14 in light of this, I think we need to make sure that  
15 there's high-level attention on it.

16 [REDACTED] Yes.

17 [REDACTED] So, you and I can get  
18 together and talk about who should be there.

19 [REDACTED] Good. That's what we'll  
20 do. I'll come down and see you now, [REDACTED]

21 [REDACTED] Okay.

22 NRC CHAIRMAN JACZKO: And, folks, I'm  
23 scheduled to be on the Hill at 10 o'clock to testify.  
24 Or, actually, I'm sorry, 9:30. So, if necessary, I  
25 will cancel that, but would like to proceed with that,

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1 and I'll have Mike Weber available, if you need us.

2 But, of course, if you need me, contact me directly.

3 [REDACTED] Are you testifying on  
4 this, and to which committee?

5 NRC CHAIRMAN JACZKO: Energy and Commerce  
6 in the House on, it was ostensibly a budget hearing,  
7 but it will likely be all about Japan.

8 [REDACTED] Yes, obviously. And  
9 it's an open hearing?

10 NRC CHAIRMAN JACZKO: Yes. At this point,  
11 I would not make any of these messages public, unless  
12 you disagree.

13 [REDACTED] But you'll be able to  
14 get on the eight o'clock CVTs (phonetic)?

15 NRC CHAIRMAN JACZKO: Yes, I'll do the  
16 best I can. Yes.

17 Actually, it might be easier, I'm at home  
18 and I'm downtown. It might be easier if I can just  
19 come to the White House.

20 [REDACTED] Sure.

21 MALE PARTICIPANT: What's your date of  
22 birth?

23 NRC CHAIRMAN JACZKO: [REDACTED]

24 MALE PARTICIPANT: And what's your Social?

25 NRC CHAIRMAN JACZKO: [REDACTED]

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1 MALE PARTICIPANT: And, then, Greg, I  
2 always spell your last name wrong.

3 NRC CHAIRMAN JACZKO: It's J-A-C, as in  
4 cat, Z, as in zebra, K-O.

5 MALE PARTICIPANT: Okay, we'll get you  
6 waved-in now.

7 NRC CHAIRMAN JACZKO: Okay. And I'll  
8 either be there or I'll just be on a call. I'm  
9 looking at the time. I may not actually be able to  
10 get there by 8:00. So, I'll just probably be on the  
11 line. But, if I can, I'll get there.

12 MALE PARTICIPANT: Okay.

13 NRC CHAIRMAN JACZKO: Okay?

14 [REDACTED] I'll be right down.

15 [REDACTED] Okay. Okay, thanks.

16 [REDACTED] Thanks, guys.

17 MALE PARTICIPANT: Mr. Chairman?

18 NRC CHAIRMAN JACZKO: Yes?

19 MALE PARTICIPANT: Could you call back to  
20 the Ops Center on a circuit line?

21 NRC CHAIRMAN JACZKO: Okay. Right.

22 MALE PARTICIPANT: Thank you.

23 ADMIRAL DONALD: Okay. This is Admiral  
24 Donald. I intend to (inaudible, possibly "secure").

25 MALE PARTICIPANT: Roger that, sir.

6

(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Josh Batkin is coming up on the ET bridge.

JOSH BATKIN: Hello.

BRIAN McDERMOTT: Hi, Josh. This is Brian McDermott.

JOSH BATKIN: Hey, Brian. So, you've spoken with the Chairman?

BRIAN McDERMOTT: Say it again?

JOSH BATKIN: You've spoken with the Chairman, then? I just saw your four points.

IAN (phonetic): Josh, this is Ian (phonetic).

JOSH BATKIN: Okay. Okay. So, are we doing press as well?

IAN: No.

JOSH BATKIN: Okay. So, was a decision made or that is our recommendation to the group?

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1 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
2 [REDACTED]

3 JOSH BATKIN: Okay. Wow, you guys had an  
4 interesting night, I guess.

5 IAN: Yes, sir.

6 MALE PARTICIPANT: That's one way to put  
7 it.

8 JOSH BATKIN: All right. Good work.  
9 Thank you.

10 Do you know when the Chairman was first  
11 engaged? Was it when Admiral Donald called or was it  
12 earlier?

13 MALE PARTICIPANT: It was concurrent with  
14 the Admiral Donald call.

15 JOSH BATKIN: Okay. So, he got a little  
16 bit of rest before today starts?

17 MALE PARTICIPANT: Yes. We engaged him  
18 about an hour ago.

19 JOSH BATKIN: Okay. Great. Well, and  
20 certainly that was the right thing to do. So, thank  
21 you.

22 All right. Hang in there. Thank you very  
23 much.

24 MALE PARTICIPANT: Hey, Josh?

25 JOSH BATKIN: Yes?

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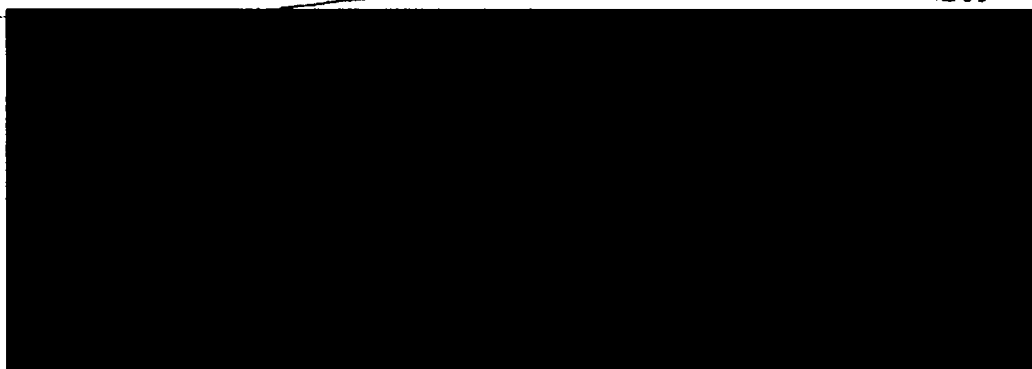
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JOSH BATKIN: Okay.

MALE PARTICIPANT: So, I'll use those same four points on the CVTs call --

JOSH BATKIN: Okay.

MALE PARTICIPANT: -- as our position, and I don't expect any pushback from the other agencies because, you know, we've already had the substantive call.

JOSH BATKIN: Okay. And DOE was in the loop with that as well?

MALE PARTICIPANT: Naval Reactors was on.

JOSH BATKIN: Right, right.

MALE PARTICIPANT: We're going back through the PMP (phonetic) to get DOE onboard. And we've also forwarded the email to Pete Lyons and Tom D'Agostino.

JOSH BATKIN: Okay. You might, for that call, Mr. Poneman is usually on it.

MALE PARTICIPANT: All right.

JOSH BATKIN: And, you know, play the

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1 role. So, just you would want to make sure that our  
2 folks; our modeling folks, our PNT (phonetic) folks,  
3 have coordinated closely with them, and to determine  
4 whether they're, you know, absolutely in agreement or  
5 have any questions before that call.

6 MALE PARTICIPANT: Understood.

7 JOSH BATKIN: And what are we doing with  
8 our folks?

9 MALE PARTICIPANT: Our folks in Japan?

10 JOSH BATKIN: Yes.

11 MALE PARTICIPANT: They would be part of  
12 the broader preparations to get U.S. citizens out of  
13 Japan.

14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 JOSH BATKIN: Okay.

21 MALE PARTICIPANT: Let me clarify that.  
22 John Monager and some others were going about 45  
23 minutes ago to the meeting with NISA and TEPCO. NISA  
24 and TEPCO were requesting information and  
25 recommendations on how to address the situation with

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1 the first four units' fuel pool, and particularly  
2 Units 3 and 4, which they described Unit 3 as having a  
3 zirconium/water reaction ongoing. And they described  
4 Unit 4 spent-fuel pool as having been substantially  
5 damaged to the point that the walls were no longer  
6 effective at retaining water.

7 JOSH BATKIN: Okay. And our analysis  
8 shows that you can get a fire out of that pool?

9 MALE PARTICIPANT: Yes.

10 JOSH BATKIN: Okay.

11 MALE PARTICIPANT: And pools 5 and 6 also  
12 have declining levels.

13 JOSH BATKIN: Wow.

14 MALE PARTICIPANT: Five. Five. There was  
15 an IAEA report that 5 was having decreasing levels  
16 which would get to a point in about another hour or  
17 two that would have fuel uncovered in the Unit 5 pool.

18 JOSH BATKIN: Okay. And, then, how long  
19 before you can see a fire?

20 MALE PARTICIPANT: Don't know.

21 JOSH BATKIN: Okay. Okay.

22 MALE PARTICIPANT: In conjunction with  
23 that report was that there was an operable diesel  
24 generator on Unit 6 that they could use to inject fuel  
25 to the Unit 5.

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1 JOSH BATKIN: Okay.

2 MALE PARTICIPANT: But that was an IAEA  
3 report of information that's now about a day old.

4 JOSH BATKIN: Right, right. Okay. Okay.

5 Well, let me not distract you. Thank you very much  
6 for the information and for handling it until you  
7 needed to wake him up. I appreciate that.

8 MALE PARTICIPANT: Good.

9 JOSH BATKIN: All right. Talk to you  
10 soon, guys. Thanks.

11 MALE PARTICIPANT: Good.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chairman Jaczko being  
3 transferred to the ET conference.

4 NRC CHAIRMAN JACZKO: Hello.

5 BRIAN McDERMOTT: Hi, Chairman. Brian  
6 McDermott.

7 NRC CHAIRMAN JACZKO: Hi, Brian.

8 Is everybody else on the CVTs call?

9 BRIAN McDERMOTT: Yes, we've got folks on  
10 the CVTs call, and we've got folks coming together for  
11 the Commissioners' assistance briefing.

12 NRC CHAIRMAN JACZKO: Okay. Let's  
13 postpone that right now.

14 BRIAN McDERMOTT: Okay.

15 NRC CHAIRMAN JACZKO: I don't want to  
16 distract people. Well, unless you can do it without  
17 taking away from whatever immediate actions we need to  
18 deal with.

19 BRIAN McDERMOTT: No, I think we're going  
20 to postpone that, sir.

21 NRC CHAIRMAN JACZKO: Okay.

22 BRIAN McDERMOTT: What can I do for you?

23 NRC CHAIRMAN JACZKO: Is there any way I  
24 can get in on that CVTs call or do I need to be on a  
25 secure phone?

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1 BRIAN McDERMOTT: You need to be on a  
2 secure videoconference or there in person.

3 NRC CHAIRMAN JACZKO: Okay. Then, I need  
4 to get over to the White House. Okay. Thanks.

5 BRIAN McDERMOTT: Do you need help to get  
6 there?

7 NRC CHAIRMAN JACZKO: Can you just -- I  
8 gave the information to the White House. So, can you  
9 just double-back and make sure that they have it, my  
10 Social and date of birth?

11 BRIAN McDERMOTT: Yes.

12 NRC CHAIRMAN JACZKO: Okay.

13 BRIAN McDERMOTT: We'll take care of that.

14 NRC CHAIRMAN JACZKO: Thank you. Bye.

15 BRIAN McDERMOTT: Bye.  
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1 (CONFERENCE CALL INITIATED)

2 BRIAN McDERMOTT: Bruce, this is Brian  
3 McDermott.

4 BRUCE: Yes, Brian?

5 BRIAN McDERMOTT: Can you guys connect me  
6 to the bridge with the Commissioners' assistance on  
7 it, please?

8 BRUCE: Okay. Stand by, Brian. I will.  
9 And be advised, I've informed the Commissioners'  
10 assistance briefing bridge that the Chairman didn't  
11 want to hold a Commissioners' assistance briefing.

12 BRIAN McDERMOTT: Got it.

13 BRUCE: So, the majority of participants  
14 have left the conference.

15 BRIAN McDERMOTT: That's fine. If you've  
16 got still some hanging on, I'll talk to everybody.

17 BRUCE: Roger that.

18 (Pause.)

19 Okay, the links are now in muted.

20 BRIAN McDERMOTT: Okay. Thank you.

21 Good morning, everyone. This is Brian  
22 McDermott.

23 I realize that we probably only have some  
24 of the participants still on the call.

25 Do we still have some?

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1 TOM HIPSCHEMAN: Yes, Tom Hipschman from  
2 the Chairman's Office is here.

3 BRIAN McDERMOTT: Okay, Tom. All right,  
4 well, we've got an audience of at least one. We'll  
5 give you what we have.

6 We're going to reschedule the  
7 Commissioners' assistance call in its normal format at  
8 a later time this morning. I just want to update you  
9 on significant events from over the evening, and we've  
10 got a lot going on right now. So, we're probably not  
11 going to take questions.

12 The bottom line: Unit 4 had a serious  
13 explosion last night. That explosion resulted in a  
14 degradation of the building to the point that the  
15 spent-fuel pool can no longer retain water. That's  
16 the most salient point. The walls are, we hear,  
17 collapsed. And, right now, it appears that they have  
18 basically the spent-fuel rods heating up there, some  
19 indication of smoke. So, that's Unit 4.

20 Unit 2, all right, is also challenged at  
21 this point. The spent-fuel pool at Unit 2 is also  
22 degraded, and there's a lot of focus on that.

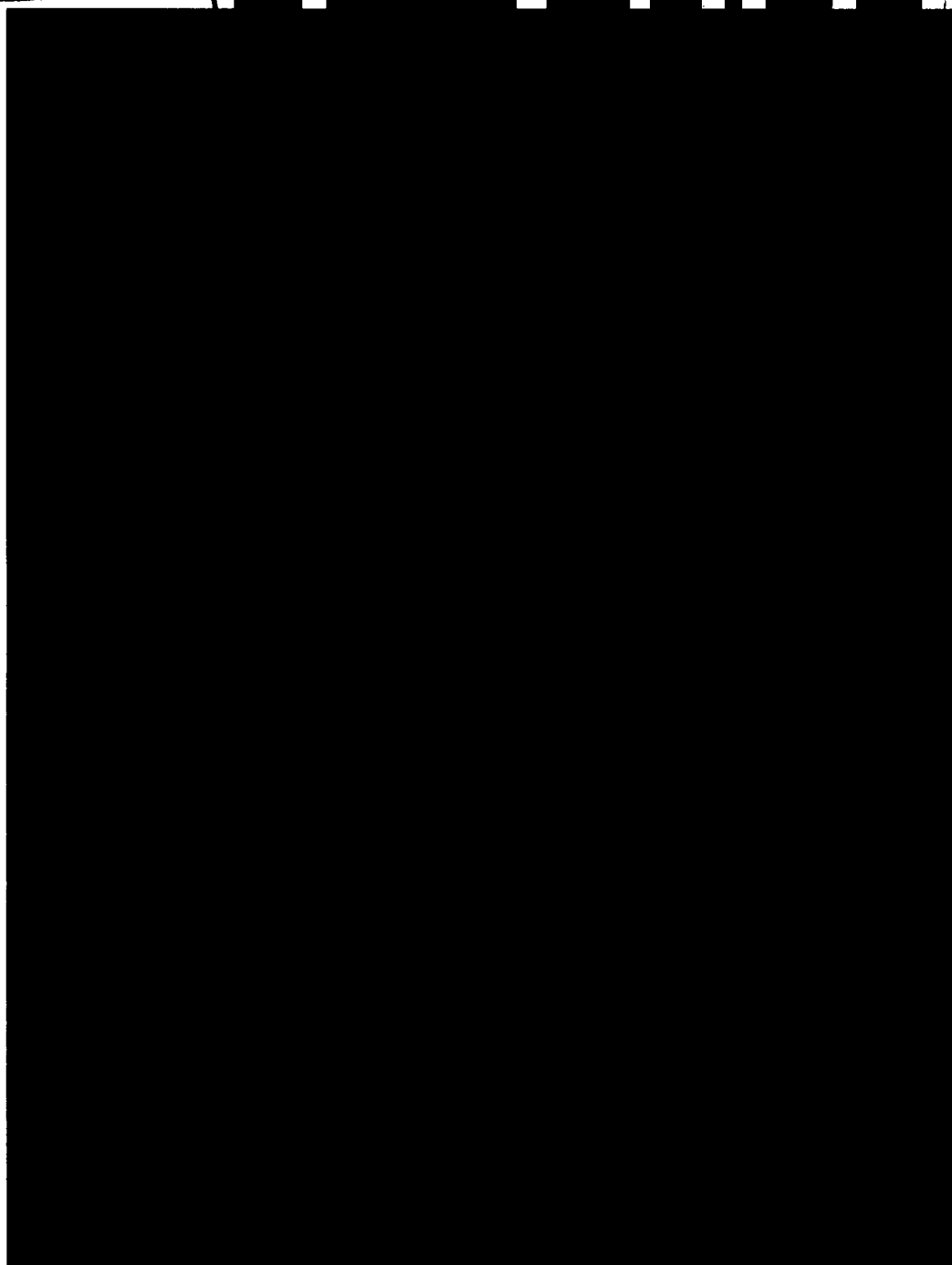
23 You know, Units 1 and 3 are probably not  
24 in a whole lot better shape. Right now, we're running  
25 sort of very difficult projections in terms of -- I

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1 say "difficult". You end up with a very large source-  
2 term, and we're having to work with NARAC to do the  
3 actual dose mapping and projections because just the  
4 one unit would take you out to 50 miles in terms of  
5 PEGs. So, we're working to do that.



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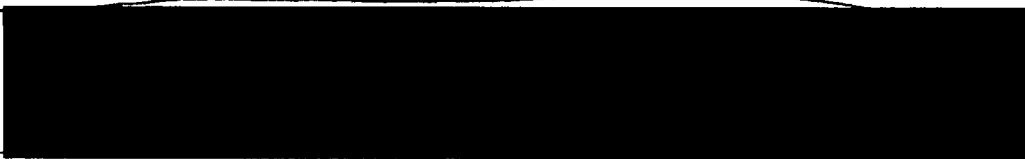
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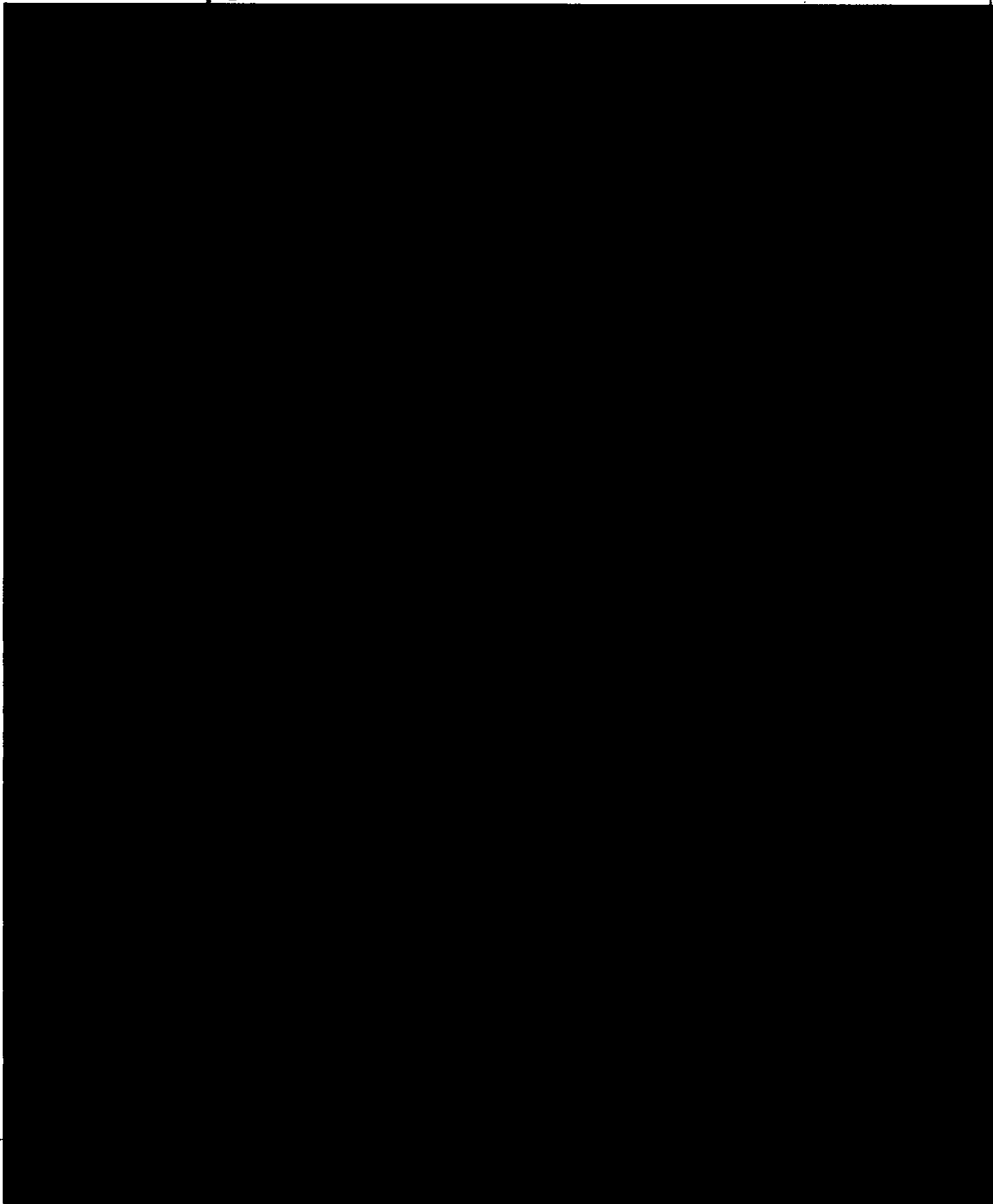
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MALE PARTICIPANT: Sometime, I think it is  
-- sometime this morning.

BRIAN McDERMOTT: Sometime this morning,  
very shortly, they're going to have a CVTs call where  
these recommendations are going to be discussed.



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TOM HIPSCHEMAN: Brian, this is Tom.

Would you like me to send out just a quick note to the other offices saying that you're going to have a brief later on and I can just give them, and if you want, I can just give them a brief summary?

BRIAN McDERMOTT: Fine. Yes, that would be fine, Tom.

BRIAN McDERMOTT: Yes.

TOM HIPSCHEMAN: I'm just basically going to talk about the units and just talking about you

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1 working on dose projections and evacuation  
2 recommendations are under consideration.

3 BRIAN McDERMOTT: Right. We're looking at  
4 dose projections that really ultimately would take  
5 into account the spent-fuel pools at all six units --

6 TOM HIPSCHEMAN: Okay.

7 BRIAN McDERMOTT: -- and three reactors.

8 TOM HIPSCHEMAN: Okay. I'll send a quick  
9 note and tell them to (inaudible), as I'm sure they  
10 will, and mark it appropriately.

11 BRIAN McDERMOTT: Okay. Thanks, Tom.

12 TOM HIPSCHEMAN: Oh, thanks for the info.

13 BRIAN McDERMOTT: Okay.

14 TOM HIPSCHEMAN: Bye.

15 BRIAN McDERMOTT: Bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chuck Casto coming up  
3 on the ET conference. Chuck Casto.

4 CHARLIE MILLER: Hi, Chuck. Charlie  
5 Miller here.

6 CHUCK CASTO: Hey, Dr. Miller. How are  
7 you doing?

8 CHARLIE MILLER: All right.

9 CHUCK CASTO: I'm just checking in. I had  
10 told Marty I would try to check in once an hour or so,  
11 and, really, I don't think I've done that yet --

12 CHARLIE MILLER: Okay.

13 CHUCK CASTO: -- for the last two hours,  
14 anyhow. Of course, we had other activities going on.

15 CHARLIE MILLER: Absolutely. Okay.



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[REDACTED]

[REDACTED]

CHARLIE MILLER: Absolutely.

CHUCK CASTO: And, also, I conveyed to him

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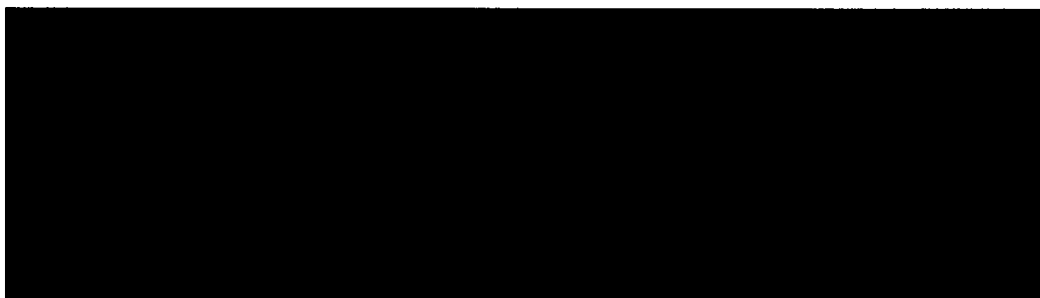
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1 that, you know, they recognize that that may be out of  
2 their jurisdiction to make that recommendation, but  
3 would leave it up to the DC, you know, just propose  
4 that to the DC for their call today, this morning.

5 CHARLIE MILLER: That's exactly correct.



10 CHARLIE MILLER: Okay. Did he seem to be  
11 more concerned about that recommendation as something  
12 that he wouldn't want to act on?

13 CHUCK CASTO: Yes, he did. That one, you  
14 know, I didn't get the feeling that that one was, you  
15 know, something he was looking for. I mean I think  
16 it's just so, what they said was, you know, you guys  
17 were telling us the other day that those rates are low  
18 and no long-term health effects; now you're coming up  
19 with sending every American out of here.

20 CHARLIE MILLER: Well, I think what he has  
21 to understand is the conditions have degraded for the  
22 last couple of days.

23 CHUCK CASTO: Yes, and that's what I told  
24 him. I said, you know, hey, at that time, we were  
25 thinking one reactor, maybe one spent-fuel pool, but

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1 --

2 CHARLIE MILLER: Right.

3 CHUCK CASTO: -- it's progressed to at  
4 least two reactors, multiple spent-fuel pools, and  
5 maybe four reactors and four spent-fuel pools.

6 CHARLIE MILLER: Right.

7 CHUCK CASTO: You know, that condition has  
8 changed.

9 CHARLIE MILLER: Yes. Yes, I mean, yes,  
10 clarity on that: it's our understanding, I think, the  
11 fourth reactor has been defueled. So, it's a spent-  
12 fuel pool leaning toward a negative problem.

13 CHUCK CASTO: Yes, and, then, the lost  
14 geometry on that.

15 CHARLIE MILLER: Right. Now, but I think,  
16 you know, combine that with No. 2, though, Chuck, for  
17 the Ambassador, if you get a chance to talk to him  
18 again. And that is that our recommendations were  
19 based upon the conditions at the time and the actions,  
20 as well as we knew them, that we thought the Japanese  
21 may be taking to try to use seawater. But it's  
22 obvious over the last number of days that the actions  
23 either have been discontinued, haven't worked, and  
24 haven't been augmented anyway, and conditions have  
25 gotten worse.

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1 So, as conditions have gotten worse, we  
2 have had to change our recommendation to make sure --

3 CHUCK CASTO: Yes.

4 CHARLIE MILLER: -- that we're prudent in  
5 protecting American citizenry.

6 CHUCK CASTO: Yes, and I think that's  
7 essentially what I told him, Charlie. I think that's  
8 what he got out of it.

9 NADER: Chuck, this is Nader.

10 Just real quick, I don't know if you're  
11 aware of this, but the Japanese have these monitors in  
12 various areas across their country that have live sort  
13 of data. Is there any downside for Kirk (phonetic) to  
14 try to get his hands on this live information?

15 CHUCK CASTO: Yes, I don't think so. I  
16 can pursue that.

17 And, also, you may not be aware that  
18 tomorrow morning at 9:00 a.m. FERMAC is going to start  
19 flights.

20 NADER: Tomorrow morning?

21 CHUCK CASTO: Yes. Well, our time  
22 tomorrow morning, which will be tonight for you.

23 MALE PARTICIPANT: Yes, it's 9:00 a.m.  
24 Tokyo time tomorrow morning.

25 CHUCK CASTO: Right. Yes. Yes, that they

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1 are going to have air assets and sample.

2 MALE PARTICIPANT: Okay.

3 CHUCK CASTO: So, DOE will download that  
4 information, and they have promised to get it over to  
5 us.

6 CHARLIE MILLER: All right. Chuck, do you  
7 know, did DOE get our fixed-wing aircraft over there?  
8 Are they putting portable equipment on aircraft  
9 that's available to Japan?

10 CHUCK CASTO: I don't know. I can ask  
11 Alan.

12 CHARLIE MILLER: (Inaudible) are located  
13 at Andrews Air Force Base and in Vegas. And I was  
14 just curious if they had [REDACTED]

15 [REDACTED]  
16 CHUCK CASTO: I can ask Alan when I see  
17 him here next.

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

22 CHARLIE MILLER: Yes.

23 CHUCK CASTO: Yes, [REDACTED]

24 [REDACTED] but we're  
25 pushing a little bit harder on --

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1 CHARLIE MILLER: Okay.

2 CHUCK CASTO: You know, if you can get  
3 some ■ on it, it would be helpful.

4 CHARLIE MILLER: That would really help.

5 CHUCK CASTO: Yes.

6 CHARLIE MILLER: The other thing is that,  
7 you know, (inaudible), and I know (inaudible) is  
8 concerned about the magnitude of the general  
9 evacuation of our citizens. I mean that's going to  
10 happen, that decision will get made in the White  
11 House, too.

12 CHUCK CASTO: Yes, absolutely. I mean  
13 you've got military bases here.

14 CHARLIE MILLER: And the question, I mean  
15 I think what they've got to work out, too, my personal  
16 opinion is whether you try to evacuate all these  
17 people from the country or you relocate them to a safe  
18 haven in a country, because there's many parts in the  
19 country that won't be affected by this.

20 CHUCK CASTO: Yes, that's a good point,  
21 right.

22 CHARLIE MILLER: Which may be a more  
23 reasonably-achievable evacuation in the near-term than  
24 trying to get everybody out of the country.

25 CHUCK CASTO: Yes. Yes. Somebody in one

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1 of those meetings or something brought up KI, you  
2 know, but I don't think, we don't have an inventory  
3 over here. We don't have enough inventory over here  
4 for 170,000 people.

5 CHARLIE MILLER: And more than that,  
6 there's been a lot on TV in the last number of hours  
7 --

8 CHUCK CASTO: Yes.

9 CHARLIE MILLER: -- medical doctors on  
10 there, because there's a run on KI on the West Coast  
11 of the United States out of panic.

12 CHUCK CASTO: Yes.

13 CHARLIE MILLER: And --

14 CHUCK CASTO: And it's oversold.

15 CHARLIE MILLER: Telling people not to  
16 take this stuff just as a precautionary measure when  
17 you're absolutely in no harm's way -- other health  
18 effects can occur from it.

19 CHUCK CASTO: Yes.

20 CHARLIE MILLER: So, it isn't something  
21 that you take light. For people who may at the risk  
22 of being ill, that's a different matter. But there's  
23 a lot of things that go into that. It could cause  
24 other health effects.

25 CHUCK CASTO: Right.

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1 Well, our team just walked in from TEPCO.

2 So, let me get a briefing from them, and I'll call  
3 you back in, unless you need something from me right  
4 now --

5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]

8 CHUCK CASTO: Yes. And that's why the  
9 guys just came in from TEPCO.

10 Also, I heard there's a possibility that  
11 we may get into EOC tomorrow morning.

12 CHARLIE MILLER: Okay.

13 CHUCK CASTO: The regulatory is EOC. And,  
14 then, we're still pushing to get into TEPCO's EOC.

15 CHARLIE MILLER: Okay.

16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]

20 CHARLIE MILLER: Absolutely.

21 CHUCK CASTO: So, I'll give you a call  
22 back if there's anything --

23 CHARLIE MILLER: All right.

24 CHUCK CASTO: -- significant out of the  
25 TEPCO briefing.

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1 CHARLIE MILLER: Okay. Thank you, Chuck.

2 CHUCK CASTO: All right. Thank you.

3 CHARLIE MILLER: Appreciate the call.

4 CHUCK CASTO: Yes. Thanks.

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(CONFERENCE CALL INITIATED)

CHUCK CASTO: Hey, Charlie.

CHARLIE MILLER: Chuck, are you there?

CHUCK CASTO: Yes, I'm here.

CHARLIE MILLER: Okay. Good.

CHUCK CASTO: Okay. You got something for me right away, anything? I want to give you some information from TEPCO.

CHARLIE MILLER: Okay. Maybe you should give it to me first, and, then, I need to give you some updated information, and we got a recommendation from the Reactor Safety people.

CHUCK CASTO: Okay.

CHARLIE MILLER: But we need to hear --

CHUCK CASTO: Good, because that's what we're talk now, is reactor safety.

CHARLIE MILLER: Okay.

CHUCK CASTO: And I'm going to put the guys on with you to give you the specifics. But here's the basic strategy we would like to propose to you guys:

That you talk with Admiral Mueller and DoD, and we're going to give you a list of equipment that needs to be moved to the closest American facility to that plant as possible, to move the

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1 equipment, to the air base or whatever military base  
2 is the closest possible place that Americans can do  
3 their own thing. We're going to give you a list of  
4 equipment.

5 Mueller, he's got pumps somewhere in-  
6 country.

7 CHARLIE MILLER: Okay.

8 CHUCK CASTO: Admiral Mueller has got four  
9 big pumps somewhere in-country here that he's been  
10 trying to sell. They're in Yokota.

11 MALE PARTICIPANT: Those are the ones that  
12 are probably at Yokota, the ones that I'm talking  
13 about.

14 CHUCK CASTO: Yes. Yes, diesel pumps?  
15 Are they diesel?

16 MALE PARTICIPANT: I don't know.

17 CHUCK CASTO: Well, whatever they are,  
18 Admiral Mueller has got four big diesel pumps at  
19 Yokota. That and all the other equipment we're going  
20 to give you a list of what needs to be moved to the  
21 closest American installation to the plant, so we can  
22 pre-stage it as soon as possible.

23 And we've kind of broken a little bit here  
24 with TEPCO. They haven't been -- they've been kind of  
25 stiff-arming us, but at least we're talking with them

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1 and discussing designs of cooling water systems. So,  
2 John and Tim and them have made some progress with  
3 TEPCO. So, they're at least starting to talk about,  
4 well, maybe we can pump some water to these things.

5 So, I'm going to put them on the phone and  
6 have them give you the attributes the pumps and  
7 equipment that's needed. Is that okay?

8 CHARLIE MILLER: Yes. Dave Skeen is here  
9 with me from RST. He's taking those. Okay?

10 CHUCK CASTO: Okay. All right. I'm going  
11 to put you on hands-free here. Hold on.

12 MALE PARTICIPANT: All right, Tim Cohn  
13 (phonetic) and John Monager and Tony.

14 JOHN MONAGER: So, what we were thinking  
15 about today, they need cooling for the four spent-fuel  
16 pools. So, we're looking for essentially this  
17 equipment. Multiply everything by four for the four  
18 units.

19 CHARLIE MILLER: All right. Let's get  
20 back, John, when you get finished, we'll get back to  
21 that because we've got an alternative recommendation  
22 on that for some of the pools.

23 JOHN MONAGER: Okay. Good.

24 MALE PARTICIPANT: Something that we can  
25 take to TEPCO? We've got a meeting tomorrow morning.

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1 CHARLIE MILLER: Yes. Yes. Yes.

2 MALE PARTICIPANT: Okay. Well, you can  
3 email us that as soon as possible.

4 MALE PARTICIPANT: Yes, where is the email  
5 to get you guys?

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: Hey, where is a good  
8 email to catch you? We understood they took your  
9 BlackBerrys away.

10 MALE PARTICIPANT: No, we've got them.  
11 So, email it to any of us.

12 MALE PARTICIPANT: (Inaudible) on the  
13 fourth floor, and we get the webmail.

14 MALE PARTICIPANT: We got them back.

15 MALE PARTICIPANT: And there's (inaudible,  
16 possibly "encrypt") on that computer up on the fourth  
17 floor.

18 MALE PARTICIPANT: So, if I send it to  
19 Chuck and Tim and --

20 MALE PARTICIPANT: That's fine. We'll get  
21 it.

22 MALE PARTICIPANT: Okay, John, okay.  
23 We'll do.

24 MALE PARTICIPANT: Please proceed.

25 MALE PARTICIPANT: Okay. So, the notion

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1 was fire departments have those ground-based rocket  
2 launchers for water. We want to get two different  
3 ways of shooting water approximately 30 meters up in  
4 the air from a distance of 50 meters away at 500  
5 gallons per minute.

6 You know, so one notion is you would have  
7 those fire rocket launchers on the ground, and as a  
8 backup to that, you would have the aerial ladder  
9 trucks, the aerial fire department snorkel truck.

10 So, you would have both means. You would  
11 have land-based pumps powering the fire rocket pumps  
12 from the ground shooting at a distance of 30 meters  
13 from 50 meters away, a capacity of 500 gallons per  
14 minute. We would also somehow look for those ladder  
15 snorkel trucks that could also reach that 30-meter  
16 elevation distance at somewhere around 500 gallons per  
17 minute.

18 MALE PARTICIPANT: Yes, they're called  
19 monitor nozzles.

20 MALE PARTICIPANT: Monitor nozzles?

21 MALE PARTICIPANT: Correct. And a ladder  
22 truck usually will have one on the very end of it.

23 MALE PARTICIPANT: Okay. So, that's the  
24 notion.

25 Now, I guess what they were saying, the

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1 issue with that is the head loft and that positive  
2 suction head sucking from the ocean.

3 MALE PARTICIPANT: Plus, you need a rigid  
4 pipe for the suction pipe.

5 MALE PARTICIPANT: Yes. Yes, plus, you  
6 need rigid pipe. And the distance is probably 800  
7 meters or so for each unit. So, you probably need  
8 some type of booster pump down by the -- you know,  
9 probably a diesel booster pump right down by the ocean  
10 there, sucking in there, so there's not much head  
11 there, you know, pressurizing that pipe, going up  
12 about 800 meters or so to the rocket fire launchers  
13 and, also, the same thing for the fire trucks  
14 positioned up there.

15 MALE PARTICIPANT: (Inaudible).

16 MALE PARTICIPANT: Yes, and that also, I  
17 guess, the suction from the ocean, you would need some  
18 type of strainers. Because if you just pulled in,  
19 eventually, you're just going to clog up --

20 MALE PARTICIPANT: Right.

21 MALE PARTICIPANT: -- the fire rocket  
22 things and the ladder truck.

23 MALE PARTICIPANT: So, you're looking for  
24 these booster pumps from our assets that DoD has?

25 MALE PARTICIPANT: Yes. Yes, or any place

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1 in the U.S. Government.

2 MALE PARTICIPANT: Right. And the fire  
3 trucks, however, probably would have to come from  
4 Japanese assets domestically, I would think --

5 MALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: -- unless you have  
7 information that's different.

8 MALE PARTICIPANT: We'll work it.

9 MALE PARTICIPANT: We'll work it. Okay?

10 MALE PARTICIPANT: Yes. But, I mean, even  
11 if we had military bases here, I mean, could they  
12 airlift them up, helicopter them up?

13 MALE PARTICIPANT: Okay. I got it. I got  
14 it.

15 MALE PARTICIPANT: Strap them on the  
16 bottom?

17 MALE PARTICIPANT: Well, let's just leave  
18 it to DoD to figure out.

19 MALE PARTICIPANT: We'll work it.

20 MALE PARTICIPANT: If we just give them  
21 the attributes, let them figure out --

22 MALE PARTICIPANT: Yes. Okay.

23 MALE PARTICIPANT: John, do you think the  
24 fire, what you're calling a rocket fire launcher, the  
25 long-range nozzle --

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1 JOHN MONAGER: That sit on the ground  
2 somehow, yes.

3 MALE PARTICIPANT: Yes, do you know if  
4 they makes those in a monitor version? Or is that  
5 only for at the top of the ladder truck?

6 JOHN MONAGER: They make both kinds. You  
7 can mount them on the ground or they're physically  
8 mounted on ladder trucks. I think they're called  
9 monitor nozzles.

10 MALE PARTICIPANT: But if it's a monitor  
11 nozzle on the ground, it's probably not going to get  
12 that high.

13 JOHN MONAGER: No, it will.

14 MALE PARTICIPANT: It can.

15 MALE PARTICIPANT: They've got both  
16 (inaudible, possibly "fog") --

17 MALE PARTICIPANT: Yes, yes. I mean, if  
18 one of those rocket things don't work, you know, and  
19 each one shoots 100 gpm, we would have five for each  
20 one. You know, whatever it takes to get 500 gpm's up  
21 there with the head launch from the ocean and, then,  
22 the height of the reactor building, which we're  
23 estimating to be 30 meters.

24 MALE PARTICIPANT: You said it was 800  
25 meters to the ocean.

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: What's the elevation  
3 change there?

4 MALE PARTICIPANT: We don't have a number  
5 for that.

6 MALE PARTICIPANT: We don't have the  
7 number, but you could probably --

8 MALE PARTICIPANT: Less than 30 meters.

9 MALE PARTICIPANT: Yes. So, it's probably  
10 30. But if you put the booster pump right down by the  
11 ocean, you should be fine, right?

12 MALE PARTICIPANT: Well, we don't know  
13 what we'll find.

14 MALE PARTICIPANT: Okay.

15 MALE PARTICIPANT: Yes, but it's something  
16 less than 30 meters.

17 MALE PARTICIPANT: Yes, but that's what  
18 they were worried about, is that high volume and the  
19 NPSH.

20 MALE PARTICIPANT: Got it.

21 MALE PARTICIPANT: So, I think, you know,  
22 you can't draw that much volume that far away with the  
23 fire trucks. So, that's why you need some booster  
24 pump --

25 MALE PARTICIPANT: Right, right.

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1 MALE PARTICIPANT: -- to pump by the  
2 ocean.

3 MALE PARTICIPANT: Well, the tsunami was  
4 10 meters, right? So, 30-feet tall.

5 MALE PARTICIPANT: It's 17.

6 MALE PARTICIPANT: So, okay, 17. So,  
7 that's --

8 MALE PARTICIPANT: Fifty.

9 MALE PARTICIPANT: -- 50 feet. So, it's  
10 probably more like 30 feet height difference, not 30  
11 meters, 30 feet, I would believe.

12 MALE PARTICIPANT: Yes, it's very likely  
13 that the local fire departments have the capability  
14 right now to do this. All you need to do is put up a  
15 tanker truck.

16 MALE PARTICIPANT: We've got the general  
17 idea.

18 MALE PARTICIPANT: One other thing they  
19 mentioned is that, since all these buildings blew  
20 apart, the debris is blocking them getting real close  
21 to the buildings. So, can you throw in a bulldozer?

22 MALE PARTICIPANT: Is there any type of  
23 remote-control equipment like that? I mean they  
24 probably designed stuff for Chernobyl and all.

25 MALE PARTICIPANT: Well, when asking for

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1 anything, ask for whatever we can get.

2 MALE PARTICIPANT: They need to clear a  
3 path.

4 MALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: They need to clear a  
6 path, and their radiation fields are screaming.

7 MALE PARTICIPANT: Do they have anything  
8 there in terms of shielded vehicles to do their  
9 surveys?

10 MALE PARTICIPANT: They have not told us  
11 that. Yes, but we can find that out as soon as we get  
12 out of this and make a phone call.

13 MALE PARTICIPANT: Okay. I know the  
14 Ukrainians have that.

15 MALE PARTICIPANT: I mean lead, how does  
16 lead come, just the blocks and all? Is there  
17 pelletized lead?

18 MALE PARTICIPANT: That's what I was  
19 wondering, pelletized lead. And I think we're also  
20 going to need --

21 MALE PARTICIPANT: This is the Operations  
22 Officer. Bill Borchardt is coming on the bridge.

23 MALE PARTICIPANT: I think, also, lots of  
24 dry chemicals.

25 MALE PARTICIPANT: Do you have other

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1 assets that you're recommending or have you gone  
2 through the list?

3 MALE PARTICIPANT: Well, I'm sure they  
4 have lead shielding from the outages.

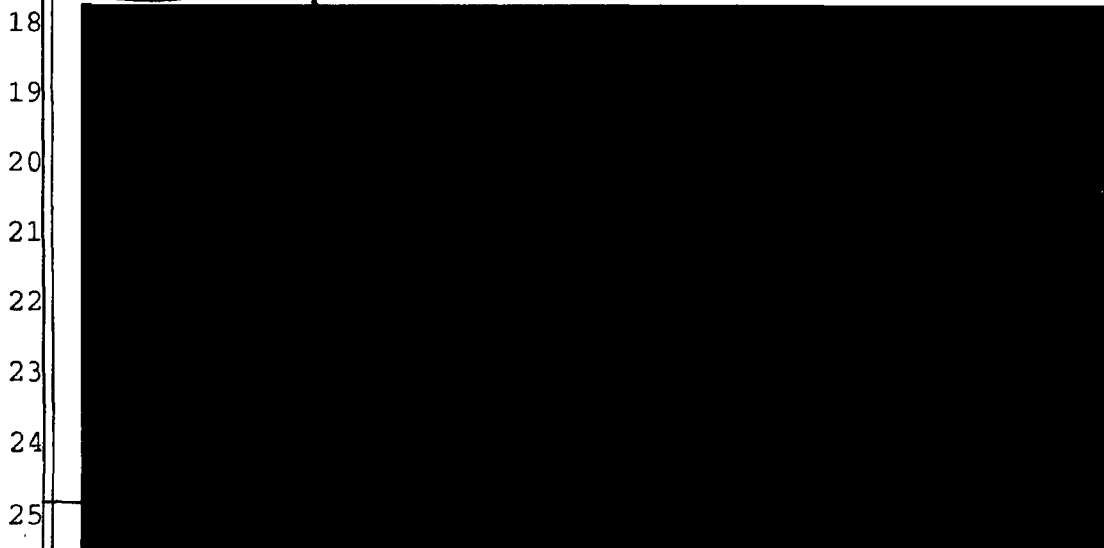
5 MALE PARTICIPANT: Of course, we're going  
6 to need a lot more than that.

7 MALE PARTICIPANT: Yes, but it's  
8 something.

9 MALE PARTICIPANT: Hey, Bill, you came on  
10 the line?

11 BILL BORCHARDT: Yes, I did. We're  
12 getting ready to meet with the Chairman and, then, go  
13 into the hearing. I'm calling to see if there was  
14 anything that changed that I need to let the Chairman  
15 know about.

16 MALE PARTICIPANT: Thanks, Bill. This is  
17 (inaudible).



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BILL BORCHARDT: All right.

MALE PARTICIPANT: Somebody that was on  
that phone call typed it up and sent it to him. I  
don't know who it was or how it was that he got a copy  
that had different numbers on it. So, we got that  
cleared up. I still think they have some reading

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1 angst about that No. 4..

2 You got any questions on that, Bill?

3 BILL BORCHARDT: No.

4 MALE PARTICIPANT: The other one is we had  
5 a TEPCO meeting. They seem much more receptive to  
6 maybe some help on the spent-fuel pool. Now we're  
7 working on trying to design some kind of systems and  
8 to move assets to American installations as close to  
9 the plant as we can to pre-stage assets, some pumps,  
10 piping, all to stray the spent-fuel pools.

11 And they've also given us quite an  
12 extensive list of items that they need for themselves,  
13 that they wanted for themselves.

14 So, we're just now getting started. As  
15 you came in, we're just now getting started on the  
16 pumping system for the spent-fuel pools and, then,  
17 their list of needs.

18 BILL BORCHARDT: Okay. And INPO, you  
19 know, has indicated their willingness to participate,  
20 especially with finding equipment and that kind of  
21 thing.

22 MALE PARTICIPANT: Well, that would be  
23 great. And I think our suggestion is that the  
24 Operations Center, your Operations Center, hook up  
25 with Admiral Mueller. He's got those pumps that he's

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1 been trying to push up there for a day or two. And  
2 we're saying, yes, move them up to the site or up to  
3 an American facility nearby.

4 And so, I think between INPO and DoD,  
5 maybe the Ops Center can help us locate all this  
6 equipment.

7 BILL BORCHARDT: Okay.

8 MALE PARTICIPANT: And we're adding some  
9 ourselves. For instance, lead and some other things  
10 that we know that they're going to need long-term.

11 BILL BORCHARDT: Right. Okay. Thanks,  
12 Chuck.

13 Mike Weber, anything else?

14 CHARLIE MILLER: No, it's Charlie, Bill.

15 BILL BORCHARDT: Oh, it's Charlie? Sorry.

16 CHARLIE MILLER: No. We haven't had a  
17 chance to tell Chuck yet, but the Reactor Safety Team  
18 has got some alternative recommendations with regard  
19 to dealing with the pools, given the fact that they  
20 basically have lost structural integrity. And we  
21 don't recommend that they put water on anymore. We  
22 need a way to be able to deliver sand.

23 MALE PARTICIPANT: Chairman Jaczko coming  
24 up onto the conference bridge.

25 BILL BORCHARDT: Yes, that's fine,

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1 Charlie. I think we do both, and there may be some  
2 pools that have geometry for water and some pools that  
3 might be sand.

4 CHARLIE MILLER: Right.

5 BILL BORCHARDT: So, we go both. You  
6 know, multiple solutions here. We have both staged.

7 DAVE SKEEN: Chuck, this is Dave Skeen.

8 Our understanding is that we want you to  
9 continue with spent-fuel pools 1 and 2 and put the  
10 reactors on 1, 2, and 3, (inaudible, possibly, "if  
11 you're putting water in there, that's a good thing.")

12 NRC CHAIRMAN JACZKO: Can I interject  
13 here? This Greg Jaczko.

14 CHARLIE MILLER: Yes, Mr. Chairman. This  
15 is Charlie Miller here.

16 NRC CHAIRMAN JACZKO: Hi. How are you?

17 CHARLIE MILLER: Fine.

18 NRC CHAIRMAN JACZKO: Hey, John, can you  
19 give me, just at a very high level, the basis for what  
20 we are referring to as our Recommendations 1 and No.  
21 3? Just very high level on what the technical basis,  
22 or I mean really No. 1, what is going on at the site?

23 CHARLIE MILLER: Mr. Chairman, we've got  
24 at least one, and maybe two, spent-fuel pools that  
25 have lost their ability to be able to hold the fuel.

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1 NRC CHAIRMAN JACZKO: Okay. I'm sorry.  
2 Is this Charlie?

3 CHARLIE MILLER: Charlie --

4 NRC CHAIRMAN JACZKO: Oh, whoever it is,  
5 can you just speak a little bit louder and a little  
6 bit more slowly?

7 CHARLIE MILLER: Okay. Mr. Chairman,  
8 there are at least one, maybe two, spent-fuel pools  
9 that have lost their ability to contain the fuels. In  
10 other words, it's uncovered. It's in some  
11 configuration. It may be just the (inaudible), for  
12 all we know.

13 Therefore, the doses from that, I mean the  
14 radiation levels from that are going way up, which are  
15 getting much larger reading. We think, with that and  
16 with the conditions that we know about the reactors,  
17 that we need to expand the recommendation, expand the  
18 recommendation for evacuation.

19 NRC CHAIRMAN JACZKO: Okay. So, it's  
20 because the radiation levels, because of the spent-  
21 fuel integrity, the radiation levels are high, we  
22 believe that there's no other mitigative actions to  
23 undergo, taking place right now for the reactors, is  
24 that correct?

25 CHARLIE MILLER: Not that we're aware of,

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1 unless Chuck has information we don't.

2 CHUCK CASTO: Yes, thanks, Charlie.

3 Yes, sir, I think our feeling is that  
4 they've pretty much abandoned attempts to mitigate  
5 particularly the spent-fuel pools.

6 NRC CHAIRMAN JACZKO: Got it. So, at some  
7 point, we expect that will progress to a more  
8 significant condition?

9 CHUCK CASTO: Yes.

10 NRC CHAIRMAN JACZKO: Okay.

11 CHUCK CASTO: Without interceding.

12 NRC CHAIRMAN JACZKO: Okay. Thank you. I  
13 appreciate that.

14 CHUCK CASTO: And we're in the process,  
15 and it seems they are somewhat receptive to devising a  
16 strategy, whether water or sand, depending on the  
17 spent-fuel pool, but devising a strategy and moving  
18 U.S. assets towards the site onto American property,  
19 onto American facilities to pre-stage.

20 NRC CHAIRMAN JACZKO: Okay.

21 MALE PARTICIPANT: And, Chuck, are you  
22 getting access?

23 CHUCK CASTO: I've got, we're getting  
24 more, I would say, slowly, we're getting more access.

25 MALE PARTICIPANT: Okay.

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1 CHUCK CASTO: We've got access to the  
2 government meetings, Conti. We've got access now to  
3 TEPCO, even though it's not widespread with TEPCO.  
4 And my understanding is tomorrow we may get access to  
5 TEPCO EOC and the regulators --

6 MALE PARTICIPANT: Okay.

7 CHUCK CASTO: No, I'm sorry, the  
8 regulators, NISA's EOC, not TEPCO's yet.

9 MALE PARTICIPANT: Okay. Okay, good.

10 CHUCK CASTO: Our push is to continue to  
11 get access to TEPCO's Emergency Operations Center.

12 MALE PARTICIPANT: Okay.

13 CHUCK CASTO: It looks like we've got it  
14 for the regulator, and that will be great. That will  
15 be fantastic. And if we can get TEPCO, then, you  
16 know, we're good. That will give us some real  
17 information.

18 NRC CHAIRMAN JACZKO: What is the timing  
19 for the reactor conditions?

20 CHUCK CASTO: The Reactor Safety Team  
21 people are probably the best people to answer that.

22 MALE PARTICIPANT: We asked them -- we  
23 just got out of a meeting with the -- for the  
24 reactors, not the spent-fuel, but the reactors. They  
25 currently believe they have injection. They're not

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1 sure what the levels are in the reactor pressure  
2 vessel, but they do believe they have injection for  
3 all the reactors.

4 MALE PARTICIPANT: Let's be clear. They  
5 do not have instrumentation, Chairman. They have no  
6 instrumentation, and they're seeing some fluctuations  
7 in water level. They're making a presumption that  
8 that's going into the -- you know, we really don't  
9 know, is it or isn't it?

10 NRC CHAIRMAN JACZKO: Right.

11 MALE PARTICIPANT: They're seeing  
12 fluctuations in water levels. There's no confirmation  
13 that it's actually going anywhere.

14 NRC CHAIRMAN JACZKO: Okay. So, we still  
15 concur with the recommendations, then?

16 MALE PARTICIPANT: Yes. And, then, also,  
17 I would say, Chairman, just as an anecdotal, they want  
18 to meet on this spent-fuel thing again tomorrow  
19 morning at 10 o'clock or something. That's 12 hours  
20 from now. I mean --

21 NRC CHAIRMAN JACZKO: Okay. Yes.

22 MALE PARTICIPANT: -- we don't see --  
23 that's not a sense of urgency here.

24 NRC CHAIRMAN JACZKO: Yes.

25 MALE PARTICIPANT: You know, 12 hours from

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1 now, to have a meeting about a mitigation strategy for  
2 the spent-fuel pool.

3 NRC CHAIRMAN JACZKO: Okay.

4 MALE PARTICIPANT: So, we're just going to  
5 go ahead, Mr. Chairman, we're just going to go ahead  
6 and start moving what we think is needed towards the  
7 site and get it staged on American military  
8 installations, or wherever. So, that, ultimately,  
9 someone at a high level will give permission to move  
10 the stuff into the site.

11 NRC CHAIRMAN JACZKO: Okay. Okay. Good.

12 So, Chuck, anything? You're still calm --  
13 I mean we're moving forward with those  
14 recommendations. So, any hesitation you have right  
15 now, you know, if you've got something right now, but  
16 if not, we're pretty much it's done.



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1 CHUCK CASTO: And other than that, sir,  
2 we're good with all four of them and ready to go.

3 NRC CHAIRMAN JACZKO: Okay. Good.

4 CHUCK CASTO: We're moving into the  
5 mitigation mode, now that we've done that, got that  
6 protecting people out of the way. We're trying to get  
7 a lot more aggressive on the mitigation side.

8 NRC CHAIRMAN JACZKO: Okay. And just to  
9 confirm, and this may be for the folks in  
10 Headquarters, the event is still driven, we think,  
11 from a protective action standpoint by the reactor  
12 event, not the spent-fuel, is that correct?

13 MALE PARTICIPANT: No, Chairman, I would  
14 say that we believe, from the spent-fuel alone, from  
15 what we know, that's the biggest change at this point  
16 in time for the change in recommendation.

17 NRC CHAIRMAN JACZKO: Okay. Okay.

18 MALE PARTICIPANT: I think that's an  
19 important subtlety.

20 NRC CHAIRMAN JACZKO: Okay. Okay. But in  
21 terms of the 50 miles, last I knew, that was coming  
22 more from the Unit 2 than from the spent-fuel pool.

23 MALE PARTICIPANT: Yes, and I think the  
24 information we're getting for protective measures is,  
25 even if you add the others, it's going to get a lot

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1 more screaming hot. But if you go out to 50 miles, I  
2 think you're going to see the thing to the point where  
3 that's probably still the appropriate recommendation  
4 --

5 NRC CHAIRMAN JACZKO: Okay.

6 MALE PARTICIPANT: -- given the current  
7 meteorological conditions and everything.

8 NRC CHAIRMAN JACZKO: Yes. Okay. Okay.  
9 Well, thanks, everybody. Good work. Keep at it.

10 I'm going to go testify.

11 MALE PARTICIPANT: Thank you. Good luck.

12 MALE PARTICIPANT: Good luck, Mr.  
13 Chairman.

14 NRC CHAIRMAN JACZKO: Thank you.

15 MALE PARTICIPANT: Now could we continue?

16 MALE PARTICIPANT: Yes, we'll continue on  
17 -- and Tim and John will continue on that.

18 BILL BORCHARDT: This is Bill. Let me  
19 interrupt for just one second because I want to make  
20 sure that I'm clear when I talk to the Chairman.

21 The change in our recommendations I  
22 thought was due to Chuck's understanding about the  
23 integrity of the Unit 4 spent-fuel pool.

24 MALE PARTICIPANT: Well, and --

25 BILL BORCHARDT: Yes, go ahead.

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1 MALE PARTICIPANT: Our understanding of  
2 the Unit 4 spent-fuel pool is it has been destroyed on  
3 the side such that it will get no water above the  
4 bottom of the active fuel. In effect, the sides of  
5 the reactor building are gone. Whereas, before the  
6 explosion went upwards and took the top, the pictures  
7 lead us to believe that the sides are gone.

8 BILL BORCHARDT: Right. And so, it's the  
9 new, additional source-term, which is the Unit 4  
10 spent-fuel pool, which is causing us to change our  
11 recommendation for protective action?

12 MALE PARTICIPANT: Now that's not a worst  
13 one, the Unit 4, because it will be like that maybe in  
14 the long-term. The Unit 3 one, currently, when we  
15 showed up here, they had the metal/water reaction  
16 going, and the Unit 1s and 2s were boiling.

17 CHUCK CASTO: Bill, this is Chuck.

18 I think the other part of that was we've  
19 just not seen any mitigation of any of the events, and  
20 we would just take all the spent-fuel pools and  
21 probably all the four reactors into the final  
22 conclusion because we've not seen any mitigation.

23 BILL BORCHARDT: Yes, right.

24 CHUCK CASTO: So, you've got to assume  
25 that it's going to go to the final --

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1 BILL BORCHARDT: Fine. Okay. And I  
2 understand that. I couldn't understand the Chairman's  
3 focus on Unit 2, unless I was misunderstanding what  
4 conversation was going on.

5 CHARLIE MILLER: Bill, this is Charlie.  
6 I think what he --

7 MALE PARTICIPANT: Yes, somebody did run a  
8 RASCAL on Unit 2.

9 JIM TRAPP: Yes, Bill, this is Jim Trapp.  
10 It's based on the RASCAL runs, and the  
11 RASCAL runs we had, remember we had that worst case  
12 two days ago, and we had a couple of RASCAL runs done.  
13 And what our RASCAL run said was worst-case, Unit 4,  
14 (inaudible, possibly "pit") 4, was bounded by the Unit  
15 2 meltdown with no fission product barriers.

16 So, that's why the Chairman remembered  
17 that and was more focused on Unit 2.

18 BILL BORCHARDT: Yes, but I just want to  
19 make sure that no one takes anything he says as  
20 implying that, if they resolve the issues with Unit 2,  
21 life is going to be a lot of better. Right?

22 MALE PARTICIPANT: No.

23 MALE PARTICIPANT: They've got 1, 3 and 4,  
24 and maybe -- this is likely to go to 4 through spent-  
25 fuel pools lost and --

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1 BILL BORCHARDT: Right, right. Okay. I  
2 got it.

3 MALE PARTICIPANT: -- (inaudible, possibly  
4 "nuclear") reactors lost.

5 MALE PARTICIPANT: And to be honest, this  
6 is Daiichi, right? Daiene today declared an  
7 emergency, and they're also having trouble with spent-  
8 fuel cooling at Daiene.

9 BILL BORCHARDT: I've got it. I've got to  
10 go track the Chairman down. Thanks, guys.

11 MALE PARTICIPANT: All right.

12 MARGIE: Can I ask a question of Chuck?  
13 This is Margie?

14 CHUCK CASTO: Yes, Marge.

15 MARGIE: Hey, Chuck. Okay, so yesterday  
16 we started getting a pretty good information flow for  
17 a little while. It did stop after about maybe 10  
18 hours. But we got an information flow from Mopa  
19 (phonetic) and a guy, a contact that we have here.

20 As a result, we called in some  
21 interpreters and we told them to give us the  
22 information in Japanese, and we started to get that  
23 going. I can try to go through those informal panels  
24 again right now, if that will help. I don't know  
25 whether that will help or hurt at this point.

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1 CHUCK CASTO: Margie, I think some of that  
2 may have been overcome by events. And we're setting  
3 up a meeting tomorrow. I think the channels are  
4 reopening.

5 There was kind of a breakdown for a while  
6 today, and there's a back-story to that I'll tell you  
7 over a beverage someday. But I think the channels are  
8 opening back up.

9 Let's try to give it, if you don't mind,  
10 if you suggest, if you don't mind, let's try to give  
11 it until tomorrow midday or something our time, and,  
12 then, see how those channels open back up. Is that  
13 okay?

14 MARGIE: Well, I think that's okay, but I  
15 want to be clear here. The channels weren't with you  
16 guys. It was a back-panel coming into NRC through  
17 Mopa.

18 CHUCK CASTO: Right. Yes. Yes, we  
19 understand that.

20 MARGIE: Okay. Okay, but we can sit on  
21 it, if you want us to sit on it. I mean we're going  
22 to be here all day. We could be working on this  
23 stuff, if we get something, but if you want us to  
24 sit --

25 CHUCK CASTO: I would ask that we sit on

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1 it for right now to see --

2 MARGIE: Okay.

3 CHUCK CASTO: -- how the dialog  
4 progresses.

5 MARGIE: Okay.

6 CHUCK CASTO: If we pursue it, when we  
7 think we've prepared the dialog, if we pursue it, then  
8 it will look --

9 MARGIE: Okay.

10 CHUCK CASTO: So, that might exacerbate  
11 the problem.

12 MARGIE: Yes. Okay. Thanks.

13 CHARLIE MILLER: Chuck, this is Charlie  
14 again.

15 We want to get back to the list that you  
16 were giving us.

17 CHUCK CASTO: Okay. We've got to inject  
18 here, Charlie. I'm sorry. You know how things are  
19 dynamic.

20 TEPCO just called and they have some more  
21 to inject.

22 But let's go ahead with Tim, and, then,  
23 we'll get back to you with TEPCO's inject here in a  
24 minute.

25 CHARLIE MILLER: Thank you.

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1 CHUCK CASTO: Okay, we were talking about  
2 the equipment. I think we went through --

3 MALE PARTICIPANT: One last thing.

4 (Inaudible).

5 CHUCK CASTO: Filters, hoses, fittings, I  
6 guess monitors to shoot the water, a bulldozer, if we  
7 can get it. And right now, John is getting the  
8 specific specs from TEPCO on what the requirements of  
9 those pumps need as far as net positive suction heads,  
10 heights, and everything. That's what I believe he's  
11 getting.

12 MALE PARTICIPANT: Okay.

13 CHUCK CASTO: We'll get that to you as  
14 soon as we can.

15 MALE PARTICIPANT: Okay.

16 CHUCK CASTO: Their suggestion was to pump  
17 the water into these pools that they talked about  
18 earlier when they were injecting borated seawater.  
19 They had those intermediate pools setup. That's still  
20 a possibility. So, if we need to have this equipment  
21 pumping into an intermediate pool, and then pump it  
22 again up to the building, that would still work.

23 I know you mentioned earlier that you had  
24 some other mitigating actions you thought might also  
25 work.

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1 CHARLIE MILLER: Yes. The Reactor Safety  
2 Team has been doing some work, and I'm going to let  
3 Dave Skeen walk you through what they are because it  
4 would change at least for the pools, the spent-fuel  
5 pools, of course, that have lost their integrity  
6 completely.

7 CHUCK CASTO: Okay. I'll be writing  
8 because we're going to have a meeting tomorrow  
9 morning, and we'll give this info to them.

10 DAVE SKEEN: Okay. That's great, Chuck.

11 We've been doing some brainstorming here,  
12 trying to figure out if they've really lost integrity  
13 on 3 and 4 spent-fuel pools. The structural people  
14 are saying there's really no use to put water on there  
15 anymore because all you're going to do is spread the  
16 contamination. As it steams, you're going to make the  
17 contamination worse.

18 CHUCK CASTO: This is Chuck.

19 I think they only have one spent-fuel pool  
20 that's lost geometry, right, and lost structure.

21 DAVE SKEEN: Yes, Unit 4, we think they  
22 lost, blew the wall out of the side of the spent-fuel  
23 pool.

24 CHUCK CASTO: But the other ones, if we  
25 could put water in them, you still would want to put

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1 water in them, wouldn't you?

2 MALE PARTICIPANT: Yes. If we can get  
3 water in them, they still are even trying that as we  
4 speak now, but are unable to do it. As far as we  
5 know, the other three will hold water, if we can get  
6 it in there to some extent. One of them, they said,  
7 seismically, might be cracked, but we don't know that.

8 DAVE SKEEN: Right. But, again, if it's  
9 been dry this long, if they've had the zirc fire and  
10 it's already (inaudible, possibly "slumped") the fuel  
11 that was there --

12 CHUCK CASTO: Yes.

13 DAVE SKEEN: -- by putting water in there  
14 and steaming it, all you're doing is spreading the  
15 contamination with the steam at some point.

16 CHUCK CASTO: Yes. But, like I said,  
17 Dave, let's go both paths. Let's do a water path and  
18 a sand path.

19 DAVE SKEEN: I agree. You have to be  
20 ready to do both things. And we have to assume that 1  
21 and 2 are headed the same way and, eventually, we will  
22 have to do sand there.

23 CHUCK CASTO: Right. You're right.  
24 Let's go ahead and do both solution paths. So,  
25 recommend 1 and 2, water; 3 and 4, since they had

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1 zirc/water reactions, to do something different.

2 DAVE SKEEN: Yes, and that's probably just  
3 drop sand and try to shield, you're trying to cut down  
4 dose at this point. So, you're just trying to cover  
5 up the rubble that's left.

6 CHUCK CASTO: Now did you read the NUREG?  
7 I know you read the NUREG, Dave, about putting water  
8 on the molten fuel, that it can help. They still  
9 recommend it.

10 DAVE SKEEN: Right.

11 CHUCK CASTO: It depends on how you do it,  
12 you know.

13 DAVE SKEEN: Yes.

14 CHUCK CASTO: Go about spreading it.

15 And, also, it depends on whether there is  
16 a crust built up.

17 DAVE SKEEN: That's right. Right, because  
18 you'll be insulating the rubble, too. So, the heat is  
19 going to build up and it's going to last longer. But,  
20 at some point, you have to figure out what's worse, to  
21 let the things be hot and burn a little longer, even  
22 if the shield is insulated, or is it worse to spread  
23 more contamination? So, that's the kind of line  
24 you've got to walk to try to figure it out.

25 And if you guys are on the ground over

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1 there, you can probably get better information than we  
2 have.

3 CHUCK CASTO: Well, they thought about  
4 taking a helicopter to haul in sand or water. They  
5 just haven't tried it yet. I don't know what they're  
6 waiting for.

7 DAVE SKEEN: Yes, right. Now let me tell  
8 you, we were doing some just (inaudible, possibly  
9 "back-of-the-invoice") talking with PMP (phonetic)  
10 about how much dose rate you should have over that  
11 four spent-fuel pools. And it's hundreds of thousands  
12 of rads right now about 20 meters above the spent-fuel  
13 pool.

14 CHUCK CASTO: Okay. Yes. So, dropping  
15 from a helicopter isn't an option, isn't really an  
16 option.

17 DAVE SKEEN: But what I would say is, if  
18 you can get some data that tells you what the dose  
19 really is coming off that, what your source-term is  
20 now, that will help you.

21 And if you look back at Chernobyl, one of  
22 the lessons they learned from that from the helicopter  
23 pilot -- I think they had eight pilots that flew until  
24 they died, basically -- the cables that they had to  
25 drop the sand, that they had the sandbags or whatever

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1 they had, were too short. They had to get down so low  
2 to the reactor they were taking more dose.

3 CHUCK CASTO: Yes.

4 DAVE SKEEN: So, if there's a way that the  
5 pilots may know what are the longest cables they can  
6 use, if they start dropping material, to give them as  
7 much distance as you can, they need to look at that.

8 CHUCK CASTO: Hey, Dave, let's move, okay?  
9 We're going to do both strategies. Let's do sand and  
10 water.

11 DAVE SKEEN: Okay. And, also, don't  
12 forget about Units 5 and 6. You know, they're  
13 starting to heat up, too. Even though we had heard  
14 they had a diesel generator on 6 that was still  
15 working, and once when we had heard that the Unit 5  
16 spent-fuel pool had dropped to about within six feet  
17 of the top of the fuel, but they were thinking that  
18 they get some cooling water back in there with this  
19 diesel from Unit 6.

20 CHUCK CASTO: Yes, we had heard that they  
21 had cross-tied. But, hopefully, as they invite us  
22 into their meetings, hopefully, we're going to get  
23 more and more information as we go here.

24 DAVE SKEEN: Yes, that's what our hope is,  
25 too.

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1 CHUCK CASTO: Well, we recommended that  
2 somehow taking the roof off of Unit 2, because that  
3 will allow them to have access from above, but not  
4 Unit 4 because they don't know, if they try to get rid  
5 of the rest of that roof, or whatever is left of it --

6 MALE PARTICIPANT: The roof's gone.

7 CHUCK CASTO: There's nothing left, right?  
8 Okay.

9 DAVE SKEEN: But, from what we can tell on  
10 4, I think you've got a pretty open path to try to  
11 dump stuff down there.

12 CHUCK CASTO: Right.

13 DAVE SKEEN: [REDACTED] 6

14 [REDACTED] the debris field went into the secondary  
15 containment and put some kind of debris over the top  
16 of the spent-fuel pool. So, I'm not sure, you could  
17 probably dump sand on top of that debris field that's  
18 over top of the pool and that would give you some  
19 shielding, but you may not get down completely to the  
20 rubble pile in the spent-fuel pool on that Unit 3.

21 And, again, we're just [REDACTED] [REDACTED]

22 [REDACTED] [REDACTED] 6  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

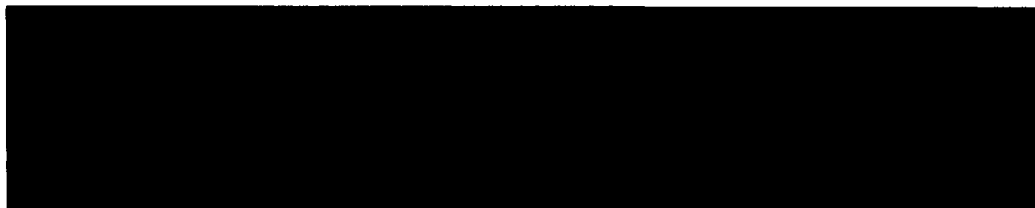
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1 CHUCK CASTO: Should we continue this?  
2 Hey, TEPCO wants the guys to come back over to work on  
3 the designs.

4 DAVE SKEEN: All right.



8 DAVE SKEEN: All right.

9 CHUCK CASTO: So, I want to get these guys  
10 out of here and get over to TEPCO.

11 MALE PARTICIPANT: All right, Chuck, a  
12 quick question. The assets that you asked for, these  
13 pumps, is it your understanding that the Navy has  
14 these in place at this point in time? Or do we have  
15 to go out and search for it?

16 CHUCK CASTO: No, Admiral Mueller has --

17 MALE PARTICIPANT: Okay.

18 CHUCK CASTO: Admiral Mueller has them  
19 here in-country.

20 MALE PARTICIPANT: All right. So, you  
21 want us to engage Admiral Mueller right now, not wait  
22 for additional information?

23 CHUCK CASTO: Yes, we know we're going to  
24 need those pumps.

25 MALE PARTICIPANT: Okay.

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1 CHUCK CASTO: So, get them, get those  
2 pumps to the closest American installation that he can  
3 get them to, to the site, until we get permission to  
4 bring them into the site.

5 MALE PARTICIPANT: All right.

6 MALE PARTICIPANT: Got it.

7 CHUCK CASTO: But give him the whole list  
8 because the Navy has a lot more pumping pumps that  
9 they have access to that we could use.

10 MALE PARTICIPANT: Okay. All right.

11 MALE PARTICIPANT: Got it.

12 MALE PARTICIPANT: We've got.

13 CHUCK CASTO: Okay. And I'm going to go  
14 over another big list with you while the guys go. I'm  
15 going to go over -- I need to -- maybe, Kirk, can we  
16 fax this list?

17 I will email the RST, what these specs are  
18 from TEPCO, as soon as we get them.

19 And we're going to, I'm going to fax you  
20 another list, material they've asked for. And if you  
21 would, Charlie and Dave, it would be great if you  
22 could hook up with Admiral Mueller. Somebody has his  
23 phone number there.

24 CHARLIE MILLER: We already have Dave on  
25 the case.

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1 CHUCK CASTO: Yes, and INPO, and decide  
2 who can do what. It's probably going to be the  
3 Admiral. I'm guessing INPO don't have an aircraft  
4 carrier or a C5.

5 (Laughter.)

6 So, it's probably going to have to be --  
7 but, nevertheless, to keep INPO plugged in, it might  
8 be nice.

9 And, also, it would be nice, Dave, if you  
10 and INPO could get together on what you -- you know, I  
11 know you've done your work with the Reactor Safety  
12 Team, but if INPO --

13 CHARLIE MILLER: He's gone off, Chuck.

14 CHUCK CASTO: Okay. Well, if you could  
15 pass on to Dave, if they could get with INPO and get  
16 their recommendations on how to address the spent-fuel  
17 pools, I know our guys are great and they're bright  
18 and all that stuff, but I'd also like to get INPO's,  
19 because of a lot of experience Exelon and others have.

20 It would be nice if we could see if they have any  
21 other ideas.

22 CHARLIE MILLER: Got it.

23 DAVE SKEEN: We're with INPO right now,  
24 Chuck. This is Dave Skeen. I just stopped back in.  
25 So, we're talking to INPO --

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1 CHUCK CASTO: Okay, great. If you get the  
2 Admiral and INPO and you guys on the line, get  
3 strategies and get material resources identified, and  
4 then when the guys get back from TEPCO, they're going  
5 to have some more design needs, or whatever you call  
6 it. They're going to have some more system designs  
7 for you --

8 MALE PARTICIPANT: Okay.

9 CHUCK CASTO: -- that TEPCO wants.

10 MALE PARTICIPANT: Okay.

11 CHUCK CASTO: Okay. So, thanks.

12 MALE PARTICIPANT: All right, Chuck. Is  
13 that it?

14 CHUCK CASTO: Yes. We're good.

15 MALE PARTICIPANT: All right, we're good.

16 CHUCK CASTO: We'll talk soon.

17 MALE PARTICIPANT: All right.

18 MALE PARTICIPANT: Okay.

19

20

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Bill Borchardt coming up on the ET conference.

Mr. Borchardt, you're on the conference, sir.

BILL BORCHARDT: Thank you.

MALE PARTICIPANT: Hey, Bill.

BILL BORCHARDT: Hi. So, we're in a back room. The hearing has started, but we're just caucusing, going over some facts.

And what I just wanted to do was triple-check the 50-mile evacuation recommendation that we would have under a similar circumstance. Given the spent-fuel pool on Unit 4 and the possibility that it's already had a fire, would 50 miles still be the appropriate evacuation distance?

MALE PARTICIPANT: Do you want to answer that, Charlie?

CHARLIE MILLER: Yes. Let me take a shot at it, Bill.

MALE PARTICIPANT: Mike's up there.

CHARLIE MILLER: Okay. Currently, as it is today with the meteorological conditions, we would say yes. But the PMP has (inaudible, possibly "a main concern".) One, RASCAL only goes out to 50 miles.

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1 So, we need some help from there to go out further  
2 than that.

3 But we've got some calculations that show  
4 that at 50 miles you would be getting doses that are  
5 beyond protective action recommendations. Now this  
6 would only come into play if there's a wind shift,  
7 which is expected this weekend.

8 But there are certain assumptions that go  
9 into that with regard to the percentage of core melt  
10 and the number of pools that have lost their  
11 integrity.

12 BILL BORCHARDT: All right.

13 MALE PARTICIPANT: So, what Charlie is  
14 saying is, it could be worse; then, you may have to  
15 evacuate beyond 50 miles.

16 CHARLIE MILLER: Because I think the  
17 message there would be that that recommendation could  
18 potentially be altered if the situation continues to  
19 degrade or does not get any better.

20 MALE PARTICIPANT: Like beyond 50 miles.  
21 Yes.

22 CHARLIE MILLER: And they've even got  
23 calculations that, if the wind shifts, they could  
24 affect Tokyo to that extent. Now we have not verified  
25 that yet, although we would (inaudible, possible

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1 "love") to have anybody run with that.

2 BILL BORCHARDT: Okay. But even if, I  
3 mean, if the zirc fire would eventually burn itself  
4 out --

5 CHARLIE MILLER: Right, right.

6 BILL BORCHARDT: -- and, then, the release  
7 slows significantly down then?

8 MALE PARTICIPANT: Right.

9 BILL BORCHARDT: I mean it's kind of like  
10 a finite time period burst of radioactivity that would  
11 be released?

12 CHARLIE MILLER: Right.

13 BILL BORCHARDT: Right?

14 CHARLIE MILLER: Well, it would be for  
15 that, but you've also got, you know, the core  
16 conditions, too, that are weighing in. And, of  
17 course, their calculations are showing for more than  
18 one spent-fuel (inaudible, possibly "burning").

19 BILL BORCHARDT: Yes, right.

20 MALE PARTICIPANT: They told us, Bill, it  
21 would relate over a 24-hour period about if it was a  
22 zirc fire --

23 CHARLIE MILLER: Right.

24 BILL BORCHARDT: I'm sorry, say that  
25 again?

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1 MALE PARTICIPANT: It's a sustained  
2 release. So, you're talking about a day's worth of  
3 burn.

4 CHARLIE MILLER: I mean a day's worth of  
5 release should you put in a condition that you would  
6 exercise protective action.

7 MALE PARTICIPANT: Absolutely. Oh, yes,  
8 but the isotopes will be out of that pool after about  
9 a 24-hour pool.

10 CHARLIE MILLER: Yes, right, right. But  
11 the point is we don't make any assumptions that we  
12 would not evacuate if it's 24 hours.

13 MALE PARTICIPANT: Right. Right, right.

14 CHARLIE MILLER: Given what Bill's  
15 question was about the (inaudible), I want to make  
16 sure you appreciate that.

17 MALE PARTICIPANT: Yes.

18 MALE PARTICIPANT: And you would  
19 definitely want to evacuate not (inaudible) because  
20 after the event is over you're going to have a lot of  
21 ground (inaudible).

22 BILL BORCHARDT: Yes. Right. Okay.

23 And I guess one other question that it's  
24 hard to get a nice, firm answer is -- and I know  
25 there's three cores' worth of inventory and four

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1 spent-fuel pools, and if you had all that activity,  
2 would that cause us to revisit the U.S. territories  
3 issue that we're saying, you know, we have been saying  
4 all along that it's extremely unlikely that there  
5 would be any radiation exposure to the U.S. coast or  
6 its territories. But if you took those three reactors  
7 and four fuel pools and put it together, would that  
8 get us to revising that statement?

9 CHARLIE MILLER: All right, he said  
10 "revisit" first. That's exactly what we're doing  
11 right now. Okay?

12 BILL BORCHARDT: Yes.

13 CHARLIE MILLER: Revising it, of course,  
14 would depend upon the meteorological conditions.

15 MALE PARTICIPANT: But our best estimate,  
16 if we have one second to answer, would be no.

17 CHARLIE MILLER: No.

18 BILL BORCHARDT: Okay.

19 MALE PARTICIPANT: But we want to make  
20 sure of that. So, we're going back to reconfirm the  
21 basis. And part of the challenge we're having is  
22 we're doing the source-term analysis in the  
23 (inaudible). And, then, we go to NARAC, but NARAC is  
24 being directed by the Deputy to do runs.

25 BILL BORCHARDT: Yes. Okay.

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1 MALE PARTICIPANT: So, we don't always get  
2 the priority we need to --

3 MALE PARTICIPANT: And they're looking at  
4 Tokyo, too.

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: Yes, and that's  
7 appropriate because --

8 BILL BORCHARDT: Yes.

9 MALE PARTICIPANT: -- that's the first-  
10 order priority.

11 BILL BORCHARDT: Sure.

12 And I guess the other point is similar to  
13 what I was making before about the releases from the  
14 three reactors and the four spent-fuel pools would  
15 probably be sequential. They wouldn't be all at the  
16 exact same time, right?

17 MALE PARTICIPANT: Yes, that would be our  
18 expectation.

19 CHARLIE MILLER: It wouldn't be a  
20 simultaneous peak release.

21 MALE PARTICIPANT: That would be a low  
22 likelihood of that.

23 BILL BORCHARDT: Right. Yes. Okay. All  
24 right. Thank you.

25 MALE PARTICIPANT: Hey, Bill?

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1 BILL BORCHARDT: Yes.

2 MALE PARTICIPANT: I don't know whether  
3 you heard this or not, but, apparently, the Japanese  
4 Emperor went on live TV today in Japan and said he is  
5 very concerned about the nuclear emergency.

6 BILL BORCHARDT: Okay.

7 MALE PARTICIPANT: You know, he asked his  
8 people to pull together on the tsunami and the  
9 earthquake response, but he said he's very concerned.  
10 So, at least there is high-level recognition of the  
11 grave situation.

12 BILL BORCHARDT: Right. Okay.

13 MALE PARTICIPANT: Okay?

14 BILL BORCHARDT: Thanks. And that's  
15 consistent with that message we saw earlier today that  
16 --

17 MALE PARTICIPANT: Absolutely.

18 BILL BORCHARDT: Yes. Okay. Thanks.

19 MALE PARTICIPANT: All right. All right,  
20 Bill. Bye-bye.

21 BILL BORCHARDT: Bye.  
22  
23  
24  
25

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(CONFERENCE CALL INITIATED)

MIKE: Hi, John.

JOHN MONAGER: Hey, how you doing, Mike?

MIKE: Okay. How are you?

JOHN MONAGER: Good, good, good.

Oh, my lord, that is wonderful.

Hey, we're calling back. Earlier today we went up to a meeting at TEPCO and met with a couple of individuals from the regulatory body, and they were a little bit standoffish and, you know, didn't make much progress.

However, I guess about two hours, probably about two and a half hours ago, they called back and they wanted to meet again and wanted to know how quickly we could meet. So, we went back up and just met with them for a few hours to try to spec out some of this equipment.

I'm not sure if you were involved in the call earlier today, Mike.

MIKE: I do. I've got the turnover.

JOHN MONAGER: Okay. So, that's what we have now, is more specifications for cooling for the four spent-fuel pools.

MIKE: Okay.

JOHN MONAGER: And the bottom line is,

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1 well, one is they haven't accepted it yet, but they  
2 would like to talk in much more detail about it  
3 tomorrow. But the bottom line is they need something  
4 by the weekend.

5 MIKE: But why do they want to leave it  
6 until tomorrow? Why not now?

7 JOHN MONAGER: I guess this approval  
8 process -- even, actually, today the people we met  
9 with weren't even with TEPCO. One was with Toshiba  
10 and two of them are with the Ministry, METI.

11 MIKE: Okay.

12 JOHN MONAGER: So, you know, it's just  
13 interesting, the dynamics. You're talking about the  
14 regulatory body coming up with the solutions as  
15 opposed to the licensee being at the plate. So, I'm  
16 not sure --

17 MIKE: (Inaudible).

18 JOHN MONAGER: Yes, yes.

19 MIKE: So, what do you need from us?

20 JOHN MONAGER: We're going to describe, I  
21 guess, a conceptual system. And I guess the thought  
22 is that you guys somehow will work with INPO, the  
23 Department of Defense, and everyone else out there to  
24 see what's available.

25 MIKE: Okay. Do you want the Reactor

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1 Safety Team guys in there now or --

2 MALE PARTICIPANT: They've gone.

3 JOHN MONAGER: All right. So, wait a  
4 minute or keep rolling?

5 MIKE: No, go.

6 JOHN MONAGER: So, the thought is a four-  
7 train system, one train for each, one separate,  
8 independent train for each spent-fuel pool.

9 MIKE: Okay.

10 JOHN MONAGER: And you're going to be  
11 starting at the ocean. So, you need suction  
12 strainers. And the suction strainers, you're going to  
13 think about the pulse and whatever the fire nozzles  
14 are, to make sure whatever gets through the suction  
15 strainer doesn't clog up the fire nozzle.

16 MIKE: Right.

17 JOHN MONAGER: You know, so suction  
18 strainers. Then, you're going to have a length of  
19 piping from the ocean up onto the beach, probably 20,  
20 you know, 20-30 meters or so. And that elevation  
21 change will be about 10 meters or so.

22 So, right there, the notion is they're  
23 going to put in diesel-driven booster pumps that need  
24 to be able to handle a 10-meter suction head.

25 MIKE: Okay.

1 JOHN MONAGER: The problem they've had  
2 before was the pumps were too far away. So, now  
3 they're doing two pumps. They're doing a pump down at  
4 the beach and, then, pumps right up at the reactor  
5 building.

6 So, you would need four diesel-driven fire  
7 pumps way down on the beach with a capacity for 10  
8 meters of suction head.

9 MIKE: Okay.

10 JOHN MONAGER: And, then, for Units 1 and  
11 4, they're both approximately 500 meters away. So,  
12 for each of those, you need 500 meters of piping. For  
13 the units in between, 2 and 3, you need 700 meters for  
14 both of those.

15 MIKE: Okay.

16 MALE PARTICIPANT: The total distance from  
17 the ocean to the launch point --

18 JOHN MONAGER: Yes, to the launch point.  
19 And, actually, we didn't look whether they need any  
20 elbow bends or any of that kind of stuff.

21 Then, at the end of that piping you will  
22 put, then, the diesel-driven spray pumps with a  
23 capacity of 500 gallons per minute or greater, capable  
24 of shooting to a height of greater than 50 meters from  
25 a distance of greater than 100 meters.

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1 MALE PARTICIPANT: Okay.

2 JOHN MONAGER: Those diesel-driven fire  
3 pumps would go into those things that are somehow  
4 planted on the ground. You know, I call them fire  
5 cannons, but some type of ground-mounted --

6 MALE PARTICIPANT: Launch point. Well,  
7 but that -- go ahead.

8 JOHN MONAGER: Yes, then you would need  
9 nozzles. And for all this stuff, it has to be movable  
10 and transportable due to the radiation field. Like  
11 both diesel generators, I think the notion is they are  
12 skid-mounted on some type of trucks, or whatever. So,  
13 they just drive the truck up to those two points and  
14 the people get out of there extremely quickly. So,  
15 I'm not sure what that means with all this piping  
16 because I imagine it comes in a section.

17 MALE PARTICIPANT: Yes.

18 JOHN MONAGER: You know, everything has to  
19 be highly movable and transportable.

20 MALE PARTICIPANT: Okay. I don't think  
21 they're wanting us to provide the trucks, but if we  
22 have these things on a trailer or something, that's  
23 just fine.

24 JOHN MONAGER: Yes. Then, they want  
25 assistance with installation.

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1 MALE PARTICIPANT: Installation and  
2 running it.

3 JOHN MONAGER: And operation, which I  
4 think they would be probably the biggest issue so far.

5 MALE PARTICIPANT: Yes.

6 JOHN MONAGER: Now, with that system we  
7 described, there could be the need eventually or in  
8 the first place to add boron. So, somewhere in the  
9 line you will put the educator, the deductor, such  
10 that you're able to suck boron from a tank. So, you  
11 want some way, you know, something along the pipe  
12 pathway to be able to have the boron injected and  
13 mixed, in case they do need that.

14 MALE PARTICIPANT: Anything else?

15 JOHN MONAGER: Yes. So, that's one  
16 system.

17 Then, as a backup system, four five trucks  
18 with aerial booms.

19 MALE PARTICIPANT: Four pumper trucks?

20 JOHN MONAGER: With big aerial booms that  
21 are going to lift up, you know, 20-30 meters by  
22 themselves, and the water cannon sitting on the top  
23 shooting in.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: John, why just four?

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1 Are you saying one per unit? One for Unit 4,  
2 (inaudible, possibly "in case of breakdown") or what?

3 MALE PARTICIPANT: This is a minimum.

4 JOHN MONAGER: Yes, all this stuff is the  
5 minimum, one for each unit, and the same way how we're  
6 designing out that system, one train for each.

7 MALE PARTICIPANT: Okay.

8 JOHN MONAGER: You know, with that diesel  
9 storage tank, you've got at least 8, if not 12, pumps  
10 there. You've got four booster pumps at the ocean.  
11 You've got four of the spray pumps, and you've got  
12 four fire engines. So, I'm not sure whether you do 12  
13 storage tanks or whatever makes sense.

14 MALE PARTICIPANT: Now what kind of head  
15 do you need between the booster pump location and the  
16 base of the building? That's a 10-meter (inaudible),  
17 right?

18 JOHN MONAGER: Now the 10 meters was --

19 MALE PARTICIPANT: It's 27 meters total  
20 from the ocean to --

21 JOHN MONAGER: Yes.

22 MALE PARTICIPANT: -- right at the base of  
23 the reactor building.

24 JOHN MONAGER: Yes.

25 MALE PARTICIPANT: So, you need 20 meters

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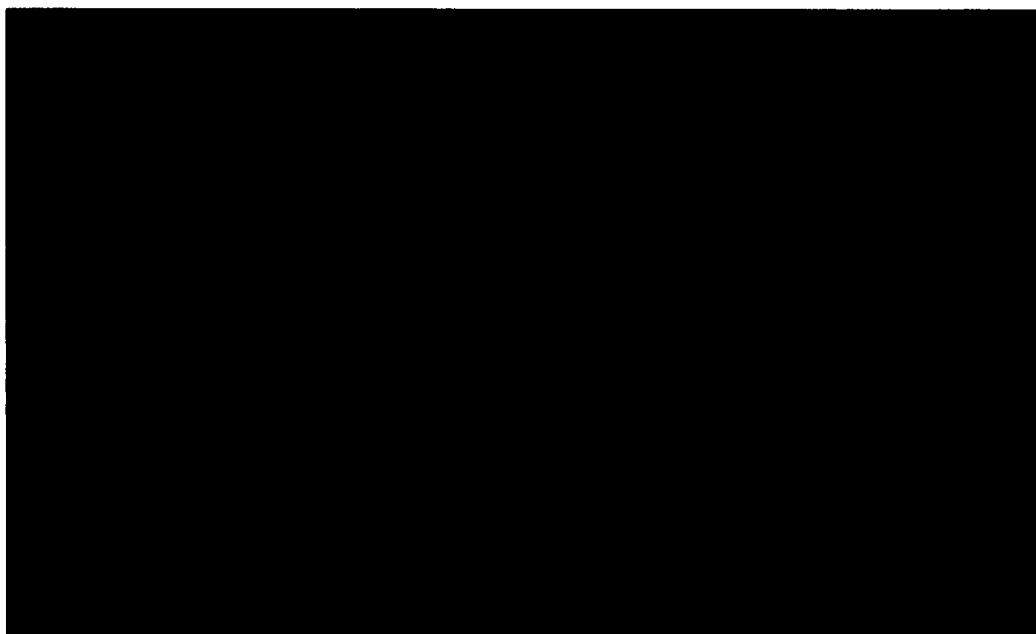
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1 then, you know, to add a little conservatism, 10  
2 meters suction at the first, and, then, 20 meters, the  
3 second.

4 MALE PARTICIPANT: Hey, do you have a dose  
5 (inaudible, possibly "guide there")? What does 300  
6 millisieverts convert to? Do you know? Three  
7 millisieverts is the rad field around there right now.

8 MALE PARTICIPANT: That's 30 R per hour.

9 MALE PARTICIPANT: There you go.



19 MALE PARTICIPANT: Yes. But they still do  
20 have operators in the control room, and they have a  
21 center onsite where they said that it is about 200 to  
22 300 millirem, is what they tell us.

23 JOHN MONAGER: Then, we went into some  
24 good, you know, somewhat good discussion on the -- all  
25 right, actually, let me go backwards.

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1           Then, the other notion, you know, some  
2 type of remote-control robots capable of going into a  
3 rad field for measurement and, also, remote cameras.

4           MALE PARTICIPANT: How high a rad field?

5           JOHN MONAGER: I would say extremely high.

6           MALE PARTICIPANT: A thousand R?

7           JOHN MONAGER: Yes, whatever the fuel pool  
8 floor is, fuel pool floor, et cetera. Okay?

9           One thing, we went back and forth on Unit  
10 4, the spent-fuel pool and the notion of sand, dirt,  
11 clay, whatever, because we believe the walls were  
12 blown out and the water level is at the bottom of the  
13 active fuel. That took them back, you know, quite a  
14 bit, and we went back and forth, and we said [REDACTED]

15 [REDACTED] 5  
16 [REDACTED]  
17           They said they don't have any indications  
18 of that. They believe, which would be true, there  
19 will be screaming radiation levels if those walls were  
20 knocked out. They said the walls, [REDACTED] [REDACTED] [REDACTED] [REDACTED] 5  
21 [REDACTED] could have been knocked out, but the spent-  
22 fuel pool wall may not be the outermost wall.

23           They showed us an aerial view, an aerial,  
24 a bird's eye schematic of the spent-fuel floor, and,  
25 you know, the pool is (inaudible, possibly "one inner

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1 wall"). So, they had a decent level of confidence  
2 that, Unit 4, the spent-fuel pool walls hadn't been  
3 blown out and the success path was to flood that up  
4 and not to go with sand, dirt, or whatever.

5 MALE PARTICIPANT: If they still have a  
6 coolable volume there, that might be worthwhile.

7 JOHN MONAGER: Yes. Right now, it is not  
8 being cooled, though.

9 MALE PARTICIPANT: Are there fires in  
10 progress?

11 MALE PARTICIPANT: No confirmation.

12 JOHN MONAGER: They didn't say anything.  
13 But, I mean --

14 MALE PARTICIPANT: You know, we don't  
15 know.

16 JOHN MONAGER: Yes, they also said they  
17 can't remove the roof on Unit 2. They don't think  
18 they can get over there with a helicopter or anything  
19 because the rad --

20 MALE PARTICIPANT: This is the  
21 Headquarters Ops Officer.

22 Mr. Borchardt is coming up on the  
23 conference bridge.

24 Mr. Borchardt, are you there, sir?

25 MALE PARTICIPANT: Hey, Bill?

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1 BILL BORCHARDT: This is Bill Borchardt.

2 MALE PARTICIPANT: Hey, Bill, we're in the  
3 middle of a call with John Monager and Chuck. How can  
4 we help you?

5 BILL BORCHARDT: We're just here with the  
6 Chairman. We're just looking for another last-minute  
7 update, if there's been any recent developments.

8 MALE PARTICIPANT: Well, the most recent  
9 development is what we're discussing with Chuck and  
10 John Monager. That's that they just had a meeting  
11 with Toshiba and METI officials, and they finally  
12 identified potential equipment needs that would help  
13 them contend with their degraded spent-fuel pool  
14 conditions.

15 And so, we're going to get rolling on that  
16 to see what could be arranged back through the  
17 military in terms of delivering some of this equipment  
18 that they would be needing to cool the fuel. They  
19 don't think the spent-fuel pool for Unit 4 is as  
20 degraded as we thought.

21 BILL BORCHARDT: Now they haven't accepted  
22 anything from the U.S. They're actively engaged in  
23 the discussions and interested?

24 MALE PARTICIPANT: Right.

25 BILL BORCHARDT: Okay.

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1 MALE PARTICIPANT: So, I think, as a  
2 minimum, we can do what we need to do to see if we can  
3 line this up.

4 BILL BORCHARDT: Right.

5 MALE PARTICIPANT: And, then, it will be  
6 up to them to decide, are they going to ask for it?

7 MALE PARTICIPANT: Yes. And they really  
8 talked about needing it to be up and running by this  
9 weekend.

10 MALE PARTICIPANT: Right. Well, that  
11 gives us a day to queue it up.

12 Anything else?

13 JOHN MONAGER: I guess somewhat halfway  
14 decent good news on the RTS on the reactor on all four  
15 units. They said, for the past 48 hours, they have  
16 continued to inject, and they're injecting through the  
17 low-pressure core spray system, which is a little bit  
18 better than a LPSI. Low-pressure core spraying,  
19 you're spraying down from the top. So, LPSI, if  
20 you're only partial-height, you're worried, you know,  
21 you're relying upon steam cooling. Your low-pressure  
22 core spray is better than that. So, that was good  
23 news.

24 Also --

25 MALE PARTICIPANT: For all four units,

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1 John?

2 JOHN MONAGER: They told us for all four  
3 units, yes.

4 MALE PARTICIPANT: They had the SRVs not  
5 gagged open, but the SRVs are wide open and they are  
6 ensuring with air pressure the SRVs stay open, and  
7 they keep pressure less than .1 megapascal within the  
8 primary system.

9 Another thing, I guess the success path  
10 for the reactor, for the spent-fuel pool on Unit 2,  
11 they just right now have a small blowout panel hole.  
12 They don't believe that hole is big enough.

13 So, we went back and forth and back and  
14 forth on ways to deliberately make a hole in the  
15 reactor building.

16 BILL BORCHARDT: I'm sorry to interrupt  
17 again. This is Bill.

18 Mike, we got cut off.

19 MALE PARTICIPANT: We're still here.

20 BILL BORCHARDT: Yes. Can you just -- you  
21 were telling me about the assessment of Unit 4.

22 MALE PARTICIPANT: Yes, the Unit 4 spent-  
23 fuel pool does not appear to be as degraded as we  
24 thought earlier this morning. And so, it may still be  
25 in a coolable configuration. And, thus, the need to

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1 get water into that fuel pool.

2 BILL BORCHARDT: Okay.

3 MALE PARTICIPANT: John was describing  
4 that they are continuing to use low-pressure core  
5 spray to cool all four units.

6 BILL BORCHARDT: Low-pressure core spray  
7 on all four units?

8 MALE PARTICIPANT: Right.

9 BILL BORCHARDT: For the reactor?

10 MALE PARTICIPANT: Yes.

11 BILL BORCHARDT: And what you were saying  
12 is that the wall was not damaged like we thought  
13 before, but there's still loss of water inventory in  
14 the No. 4 pool? Would that be right?

15 MALE PARTICIPANT: It sounds like from the  
16 steam and all, et cetera. Now walls have been knocked  
17 out, but they're telling us they're not the walls of  
18 the spent-fuel pool.

19 BILL BORCHARDT: Okay.

20 MALE PARTICIPANT: So, it's a thick --

21 MALE PARTICIPANT: (Inaudible). We had  
22 one idea. (Inaudible). So, we (inaudible, possibly  
23 "should think about tomorrow?")

24 MALE PARTICIPANT: Is there any other  
25 high-level update for Bill and the Chairman, John?

1 JOHN MONAGER: One thing that was  
2 interesting, they talk about the rad fields in the  
3 vicinity and being able to do work. You know, some of  
4 these measurements are very high, and they have  
5 bulldozers going through and cleaning up pathways, et  
6 cetera.

7 They talked about the dose rates once the  
8 bulldozers go through decreasing significantly, by  
9 maybe 70 percent or so. And given the rad field, you  
10 have to think, what is causing that?

11 You know, of course, if you rip apart your  
12 reactor building, you've got residual contamination,  
13 et cetera. But it really would lead me to believe  
14 that what you have out there is fuel in the  
15 environment.

16 And there you had the spent-fuel pool that  
17 boiled down. You had a zirc/water reaction. You  
18 built up this steam. You know, a certain percentage  
19 of the upper part of the spent-fuel pool is bare.  
20 They had this explosion, and who knows what got blown  
21 out in the yard?

22 BILL BORCHARDT: Okay.

23 MALE PARTICIPANT: They reported the rad  
24 field was 20 to 30 rems.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: Was that 20 to 30 R?

2 MALE PARTICIPANT: Twenty to 30 R.

3 MALE PARTICIPANT: Thank you.

4 MALE PARTICIPANT: Yes. Some of the  
5 issues were frustrating that they were dealing with.  
6 For example, previously, maybe it was the Air Force or  
7 so, delivered a fire truck that they did not take  
8 advantage of.

9 They have issues with vehicles not being  
10 titled in their country that have to be escorted by  
11 the police department. We talked about getting this  
12 equipment in, and they said they couldn't take it  
13 because it would have to be escorted and there's all  
14 kinds of restrictions on imports and all this, on  
15 imports and all that kind of jazz, which was sort of  
16 ridiculous.

17 So, we talked about, if you could get the  
18 equipment there, to have it airlifted directly onto  
19 the TEPCO site, which they said is actually quite  
20 vast. So, the notion of having it, you know, 40-50  
21 miles away and driving it down isn't going to work

22

23

24 MALE PARTICIPANT: Now we don't have  
25 permission to put it on their site yet. We think

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1 we're going to get that in the morning. But we have  
2 it both sides, that will be good.

3 MALE PARTICIPANT: So, airlift is the way  
4 to go?

5 MALE PARTICIPANT: Yes. But the airlift,  
6 you know, will cause a huge issue with the Defense  
7 Department.

8 MALE PARTICIPANT: Yes, but they have  
9 Japanese craft. They could fly it in.

10 MALE PARTICIPANT: Yes. They also want  
11 our people to install the equipment and operate it.

12 MALE PARTICIPANT: Yes, that will be a  
13 controversy.

14 MALE PARTICIPANT: Yes.

15 I think that's pretty much it.

16 MALE PARTICIPANT: Bill, do you need  
17 anything else?

18 BILL BORCHARDT: No. I think, let me just  
19 try to repeat back what you were telling me. So  
20 they're injecting water into all the cores. We still  
21 believe there's fuel damage in all three reactor  
22 cores. The spent-fuel inventory on Unit 4 has been  
23 significantly compromised. I mean we've lost  
24 significant amount of water. There's been high  
25 radiation levels in obvious release from that, but

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1 that we don't think anymore that the wall, the  
2 structural integrity wall of the spent-fuel pool, has  
3 been severely compromised. So, the potential is  
4 solely to refill the pool?

5 MALE PARTICIPANT: That's correct.

6 BILL BORCHARDT: Okay. Now what I got  
7 lost on was they've had bulldozers in the area. And  
8 after the bulldozers went through to clear the path,  
9 the rad levels went down?

10 MALE PARTICIPANT: Significantly down  
11 because the bulldozers pushed away all the  
12 contamination or all the fuel.

13 BILL BORCHARDT: Okay. All right.

14 MALE PARTICIPANT: They just moved it.

15 MALE PARTICIPANT: They just moved it from  
16 here to there.

17 BILL BORCHARDT: Right. That's just  
18 confirming that there's been a significant release and  
19 a lot of (inaudible, possibly "flight out") in the  
20 immediate area?

21 MALE PARTICIPANT: Right.

22 BILL BORCHARDT: Okay. I've got it.

23 MALE PARTICIPANT: When we said low-  
24 pressure core spray, it's not the normal low-pressure  
25 core spray system. It's just going through the core

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1 spray header that's taking it in --

2 BILL BORCHARDT: Yes. Yes, I understand  
3 that.

4 Wait a minute. I had one other -- darn  
5 it, I lost it. I had a question.

6 MALE PARTICIPANT: But, Bill, even though  
7 with latest information, there's no change to the  
8 recommendations that we've made, the four key points  
9 that we talked about earlier this morning that the  
10 Chairman was on that call for?

11 MALE PARTICIPANT: We were all at  
12 different locations. I would not say things have  
13 changed significant enough to change any conclusions  
14 you guys had.

15 BILL BORCHARDT: Okay. Good.

16 MALE PARTICIPANT: You know, even though  
17 they said they've had core coolant for 48 hours, they  
18 have no way to verify it. [REDACTED]

19 [REDACTED]  
20 Regardless, the thing's almost dry.

21 So, you know, there may be some nuances.

22 MALE PARTICIPANT: So, no change, Bill.

23 BILL BORCHARDT: Okay. All right. Thank  
24 you very much.

25 If there is anything -- I'm sorry?

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1 MALE PARTICIPANT: Bill, Charlie has  
2 something for you.

3 CHARLIE MILLER: Bill, I've got a  
4 question. We're getting third-hand information  
5 (inaudible, possibly "that Eliot (phonetic)") is with  
6 you and the Chairman.

7 BILL BORCHARDT: Not right now, no.

8 CHARLIE MILLER: We're getting requests  
9 back from Public Affairs that the Chairman wants us to  
10 reduce the data (inaudible, possibly "runs") for the  
11 modeling that we're getting. Have you heard anything  
12 on that?

13 BILL BORCHARDT: I haven't really been  
14 paying attention to that. I'll have to call you back.

15 CHARLIE MILLER: I don't want to burden  
16 him going into the hearing, but I would advise that we  
17 talk to him first before we make any such commitment  
18 as to exactly what was what.

19 BILL BORCHARDT: Okay.

20 CHARLIE MILLER: So, we're going to hold  
21 on that, okay?

22 BILL BORCHARDT: Yes, I think so.

23 CHARLIE MILLER: All right. Okay, thank  
24 you, Bill.

25 BILL BORCHARDT: All right.

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1 JOHN MONAGER: So, we have a 10:00 a.m.  
2 meeting with them tomorrow. So, our hope is we can  
3 get some of these answers within the next eight-nine  
4 hours, so we can go back. But if they agree to it,  
5 are we committing?

6 MALE PARTICIPANT: Well, we're going to  
7 have to work that, John. We'll do our best to line  
8 things up back here.

9 But John's not dropping off yet. It's  
10 just Bill and the Chairman dropping off.

11 JOHN MONAGER: Okay. So, the next meeting  
12 with them is in eight hours. Okay?

13 MALE PARTICIPANT: Did you discuss any  
14 need for boron, John?

15 JOHN MONAGER: We talked about it. At  
16 first, they were like, well, if we're going to design  
17 this system, shouldn't we put the (inaudible) in?  
18 They were like yes. They didn't say, though, they  
19 needed boron.

20 We talked about lead and shielding and  
21 pelletized lead. And they said they built blankets  
22 with tungsten or something like that.

23 MALE PARTICIPANT: Yes, for their  
24 refueling outage.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: And they can use that.  
2 They have that available.

3 MALE PARTICIPANT: How about, can I run  
4 two other things through you, Mike?

5 MIKE WEBER: Sure, sure.

6 MALE PARTICIPANT: So, the other day,  
7 [REDACTED] came in. Do you remember that, in the Ops  
8 Center?

9 MIKE WEBER: No.

10 MALE PARTICIPANT: [REDACTED]

11 MIKE WEBER: Oh, I thought you meant the  
12 nation.

13 MALE PARTICIPANT: No, [REDACTED] came by and  
14 shared some stuff.

15 MIKE WEBER: Right.  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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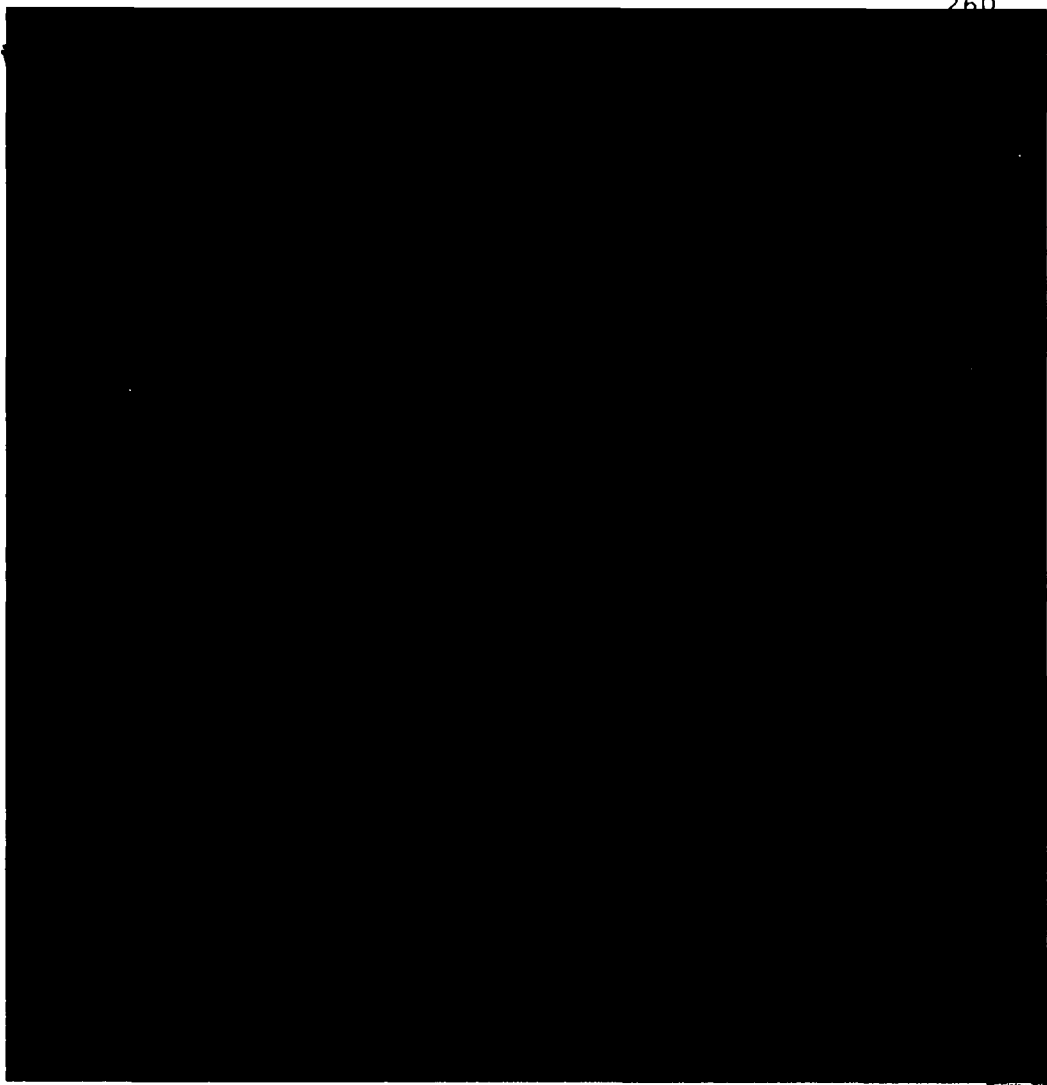
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MALE PARTICIPANT: The other thing I was going to bring up is I know we're interested in helping, and it's in everyone's best interest, but it's unclear with regard to, you know, the culture or the acceptability of requiring assistance from another nation or country.

MALE PARTICIPANT: Right, right.

MALE PARTICIPANT: I'm wondering if it would help these discussions or negotiations if we said, you know, we could provide this equipment and we

1 would not publicize that we are doing all this.

2 MALE PARTICIPANT: We can work that back  
3 here.

4 MALE PARTICIPANT: Yes, I'm not sure if we  
5 can do that or not. We didn't mention it, but --

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: -- you know, just don't  
8 go issuing a ton of press releases, stuff like that.

9 MALE PARTICIPANT: Yes, yes. We  
10 understand the sensitivity. We'll have to figure out  
11 what is feasible.

12 MALE PARTICIPANT: Right.

13 MALE PARTICIPANT: Okay. Anything else?

14 MALE PARTICIPANT: That's it.

15 MALE PARTICIPANT: I think that's --  
16 Rick's got a question.

17 RICK CASSELBERG (phonetic): John, Rick  
18 Casselberg.

19 Related to boron, we had a conversation  
20 with the INPO executives a couple of hours ago now,  
21 and they indicated that they received from multiple  
22 channels -- and they can't actually find the source of  
23 the request -- that Japan was looking for boron. And  
24 they located a stash at Diablo Canyon.

25 And we and the Reactor Safety Team are

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1 trying to work something. If, in fact, Japan  
2 requests, we have already found a military transport  
3 that can get it to them. We need to know what form  
4 they need it, how much they need, where they need it  
5 delivered, and do they have a plan for how they're  
6 going to get it to the site?

7 So, it's all related to, you know, what  
8 else do you need?

9 JOHN MONAGER: Right.

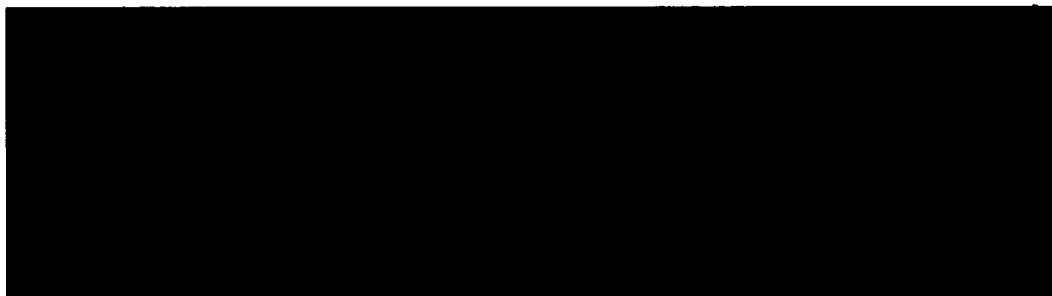
10 RICK CASSELBERG: So, now there's also a  
11 list. I haven't looked through it. I'm not sure if  
12 Tim has, either. And I believe you guys might have  
13 already discussed it with Chuck, a page and a half of  
14 a list of requests to the U.S. Government.

15 MALE PARTICIPANT: Yes. We weren't sure  
16 what the source of that list was, either.

17 RICK CASSELBERG: Okay.

18 MALE PARTICIPANT: It didn't have an  
19 originator.

20 MALE PARTICIPANT: Yes. It must be a wish  
21 list.



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1 MALE PARTICIPANT: Yes. Okay.

2 Now our requests or our discussions on  
3 this stuff still isn't with Toshiba yet. It's with  
4 the Government.



11 MALE PARTICIPANT: Okay. Thank you.

12 MALE PARTICIPANT: I think that's it back  
13 here.

14 CHARLIE MILLER: All right, John. This is  
15 Charlie.

16 Have you got anything else that you need  
17 of us back here of any nature?

18 JOHN MONAGER: Just let us know, if you  
19 start moving stuff in closer, just let us know, so  
20 that we're aware of it, so we might be able to  
21 communicate that.

22 CHARLIE MILLER: All right. Okay.

23 FEMALE PARTICIPANT: And we'll work on  
24 maybe thinking of some communication strategies. I  
25 know that rather than, for example, saying, "We won't

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1 publish it," maybe saying like, "We'll give you  
2 complete credit for requesting it and we're just  
3 augmenting," or whatever. But we'll work on that.  
4 So, we'll think about it and come up with something  
5 for someone to consider.

6 MALE PARTICIPANT: Well, we didn't raise  
7 that topic with them. We were just wondering why  
8 they're so slow or reluctant or hesitate.

9 FEMALE PARTICIPANT: Yes, but I think  
10 you're probably right.

11 MALE PARTICIPANT: Yes. Okay.

12 FEMALE PARTICIPANT: But we'll work on  
13 some things.

14 MALE PARTICIPANT: Okay.

15 MALE PARTICIPANT: All right.

16 CHARLIE MILLER: All right.

17 MALE PARTICIPANT: Well, thank you, guys,  
18 very much for being there.

19 MALE PARTICIPANT: Thank you for being  
20 there. Talk to you soon.

21 JOHN MONAGER: We're going to hang up now  
22 then.

23 CHARLIE MILLER: Okay. Thanks, John.

24 JOHN MONAGER: All right. Thank you,  
25 guys. Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: John? Hello, John.

3 JOHN MONAGER: Hey, Mike? Hey, one thing  
4 we forgot to mention, and we're wondering if you guys  
5 or the RST or maybe even Security Info folks could  
6 some brainstorming. For the spent-fuel pools, you're  
7 going to be shooting the water in these fire sprays  
8 through the tops or sides of everything that's been  
9 blown apart. And that's fine for Units 1, 3, and 4.

10 MALE PARTICIPANT: Right. But what do you  
11 do with Unit 2, where you have a wall that's  
12 (inaudible)?

13 JOHN MONAGER: Yes. And they have a small  
14 blowup panel that's partially open, but they said  
15 that's not going to cut it. That won't be sufficient.

16 So, the question is, you know, how do we  
17 open up that building? We want the building open to  
18 get coolant in. Plus, you want the building open to  
19 purge any hydrogen.

20 We floated ideas, which didn't go over too  
21 well, with even such things as a rocket-propelled  
22 grenade up there to just shoot through. You know, we  
23 talked about that.

24 The other thing we talked about is roofing

25 --

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1 MALE PARTICIPANT: A helicopter with a  
2 ball on it or something?

3 JOHN MONAGER: Yes, a helicopter with a  
4 concentrated weight, you know, (inaudible, possibly  
5 "buff them through").

6 MALE PARTICIPANT: Yes. Hey, let's not do  
7 that on this wall. I think we've got it. We'll work  
8 it offline.

9 JOHN MONAGER: Okay. All right.

10 MALE PARTICIPANT: What size hole do you  
11 want?

12 JOHN MONAGER: I don't know, 4 meters by 4  
13 meters, a decent hole. A decent hole.

14 MALE PARTICIPANT: Okay.

15 JOHN MONAGER: You know, they're going to  
16 be shooting water, you know, 100 meters-plus away.  
17 Wind's going to be all over the place.

18 MALE PARTICIPANT: Yes.

19 JOHN MONAGER: All right.

20 MALE PARTICIPANT: Okay.

21 JOHN MONAGER: And, you know, with the rad  
22 fields, et cetera, they can't get people up there.

23 MALE PARTICIPANT: Okay. Understood.

24 JOHN MONAGER: Yes, one of the thoughts  
25 was, but the booms won't go high enough, you know,

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1 these big forklifts with the big two prongs. Just go  
2 on in and pierce it, you know, piercing it and ripping  
3 it apart.

4 You know, their concern with all these  
5 ideas was the ability of the plant. The plants have  
6 gone through so much that they're worried about  
7 impact.

8 MALE PARTICIPANT: And you've got a  
9 hydrogen risk environment potentially?

10 JOHN MONAGER: Potentially, yes.

11 MALE PARTICIPANT: Yes. Okay.

12 JOHN MONAGER: Okay. You know, they're  
13 worried about impact taking down the structure worse  
14 than we would want.

15 MALE PARTICIPANT: Yes, and the material  
16 you're going through is a metal corrugated wall?

17 JOHN MONAGER: It varies. You know, in  
18 the U.S. they're, I call them like super-aluminum  
19 siding. I mean it's metal corrugated, but I think  
20 over here it's tougher because of the typhoons and the  
21 severe environment. But within the U.S., it's a  
22 strong corrugated metal thing, but things can  
23 definitely punch through it.

24 MALE PARTICIPANT: Okay.

25 JOHN MONAGER: So, it's stronger over

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1 here, but it can still be punched through.

2 MALE PARTICIPANT: Okay.

3 JOHN MONAGER: Good.

4 MALE PARTICIPANT: We'll give you a call.

5 JOHN MONAGER: All right. Thanks.

6 MALE PARTICIPANT: Thank you.

7 JOHN MONAGER: Bye-bye.

8 MALE PARTICIPANT: Bye-bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Josh coming up.

MIKE WEBER: Josh? I don't hear him.

JOSH BATKIN: Hey, this is Josh.

MIKE WEBER: Hey, Josh.

JOSH BATKIN: Who's that, Webber?

MIKE WEBER: Webber.

JOSH BATKIN: Hello, sir.

MIKE WEBER: Hi.

JOSH BATKIN: Two points for you and for  
OPA.

MIKE WEBER: Okay.

JOSH BATKIN: There has been some  
confusion about whether or not, when we do our press  
release following the White House press release, which  
will be issued shortly, whether or not we also attach  
the raw data that we have used to come to those  
conclusions.

MIKE WEBER: Right.

JOSH BATKIN: And just to be crystal-  
clear, the directions from the Chairman, as  
coordinated with his counterpart, is yes.

MIKE WEBER: Okay.

JOSH BATKIN: So, we will release that raw  
data when that press release goes, assuming we can do

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1 it simultaneously. If it is not ready right after we  
2 see the White House release, then we do a quick  
3 supplemental release as soon as it is.

4 MIKE WEBER: We're trying to get that  
5 ready right now, Josh.

6 JOSH BATKIN: Okay. Great. Thank you.

7 And, then, the other point is there were  
8 four points that have been sent around today.

9 MIKE WEBER: Yes.

10 JOSH BATKIN: Point No. 4, we are not  
11 discussing. The NRC is not discussion Point No. 4.

12 MIKE WEBER: Okay.

13 JOSH BATKIN: Publicly or otherwise. So,  
14 we need to make sure all of our messaging does not  
15 include Point No. 4.

16 MIKE WEBER: Okay.

17 JOSH BATKIN: Make sense?

18 MIKE WEBER: Makes sense. It's not our  
19 call.

20 CHARLIE MILLER: It's not our purview.

21 JOSH BATKIN: Sorry, say that again?

22 MIKE WEBER: It's not our call. It's  
23 other agencies.

24 JOSH BATKIN: Correct, correct.

25 MIKE WEBER: All right. What we discussed

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1 with respect to Point 1 is --

2 JOSH BATKIN: Yes?

3 MIKE WEBER: -- the need to provide like a  
4 paragraph in front of those model results to provide  
5 some context to it.

6 JOSH BATKIN: Sure. Absolutely.

7 MIKE WEBER: Okay.

8 JOSH BATKIN: It should explain what it is  
9 and what it means or how we used it. Absolutely.

10 MIKE WEBER: Right. Because there could  
11 be worse projections if we revised those runs to show  
12 more of a release, a higher source-term, different  
13 meteorological conditions. You understand all that,  
14 but --

15 JOSH BATKIN: Right.

16 MIKE WEBER: -- the sense I'm getting back  
17 here among our technical experts is, you know, don't  
18 blow it out of proportion, either. And we need to  
19 make certain that we do have a firm basis for the  
20 recommendations that we're providing.

21 But we think we can write up that  
22 paragraph that will provide that context.

23 JOSH BATKIN: Okay. Great. I mean that  
24 literally needs to be ready in the next 10 minutes or  
25 so. The White House release I believe is getting

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1 ready to go soon.

2 MIKE WEBER: Okay. We're working it.

3 JOSH BATKIN: Okay. Great. Any other  
4 developments we need to talk to the Chairman or Bill  
5 right now?

6 MIKE WEBER: You are aware from the  
7 earlier call that Bill was on about the request for  
8 assistance from the Japanese?

9 JOSH BATKIN: You're aware of the request  
10 for assistance from the Japanese, Bill?

11 BILL BORCHARDT: Within the last hour or  
12 two?

13 JOSH BATKIN: Within the last hour or two  
14 or something from earlier?

15 MIKE WEBER: It was the one we discussed  
16 with him when John Monager was on the phone.

17 JOSH BATKIN: The one they discussed when  
18 John Monager was -- yes, he's aware.

19 MIKE WEBER: And so, we haven't formally  
20 received that, but we're acting as though we may. And  
21 so, we're trying to line up the equipment necessary to  
22 support that.

23 JOSH BATKIN: Okay. Have not formally  
24 received, but anticipating. Okay. Okay.

25 MIKE WEBER: Okay?

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1 JOSH BATKIN: Okay. Got it.

2 MIKE WEBER: Thanks.

3 JOSH BATKIN: Thank you.

4 MIKE WEBER: All righty.

5 JOSH BATKIN: Josh out. Thank you.

6 MIKE WEBER: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MIKE WEBER: Hi. Mike Webber.

3 MALE PARTICIPANT: Hey, Mike. I want to  
4 talk and offer you some technical help. I know you  
5 guys are a highly-skilled technical organization, but  
6 I didn't know if you want some folks to think out of  
7 the box. And, you know, we kind of worked on the  
8 Three-Mile Island thing, and we still have those kinds  
9 of brains here. And I wanted to know if you wanted  
10 anybody like that in your Ops Center.

11 MIKE WEBER: Sure. You're talking about  
12 sending over some NRR staff?

13 MALE PARTICIPANT: Yes.

14 MIKE WEBER: Sure. We'd welcome them.

15 MALE PARTICIPANT: Okay. What I'm  
16 thinking is one or two folks from Headquarters, maybe  
17 on a rotational basis, and, then, maybe some of our  
18 lab folks.

19 We've been thinking through this thing and  
20 have some options. I'll bet you they're not a hell of  
21 a lot different than what you guys have been talking  
22 about, but we ought to talk through it.

23 I don't know if you've seen this, but the  
24 -- who are they? -- the TEPCO folks have reached out  
25 directly to DOE and NNSA because of a personal contact

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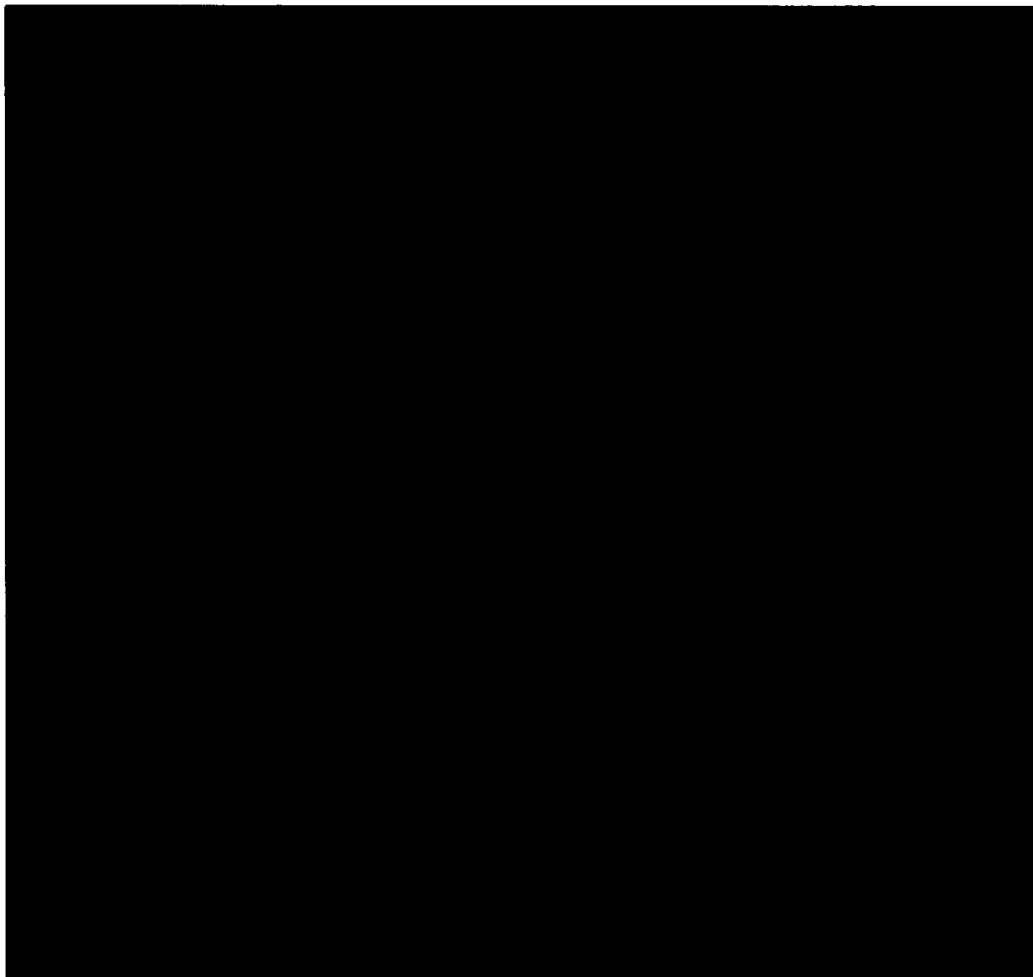
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1 saying, "If you guys have any ideas, let us know."

2 I've asked them to share that with you  
3 guys.

4 MIKE WEBER: Okay.



19 MIKE WEBER: Yes, I think our team in  
20 Tokyo is doing that with folks from METI and, also,  
21 from Toshiba.

22 MALE PARTICIPANT: Okay. Good. So, what  
23 we'll do is I will figure out who the heck we're  
24 sending you in the short-term.

25 MIKE WEBER: Okay.

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1 MALE PARTICIPANT: And once they head on  
2 their way to see you, I'll give you a heads-up, so you  
3 guys will let them in the building.

4 MIKE WEBER: Okay.

5 MALE PARTICIPANT: Where are you, by the  
6 way? What floor are you on up there, so they know how  
7 to find you?

8 MIKE WEBER: We're on the fourth floor of  
9 2 White Flint.

10 MALE PARTICIPANT: Okay. When they get  
11 there, who should they ask for?

12 MIKE WEBER: Who do you want them to see,  
13 Brian?

14 BRIAN: Call up and ask for Sally  
15 Billings.

16 MALE PARTICIPANT: Sally Billings?

17 BRIAN: That's right.

18 MALE PARTICIPANT: Okay.

19 MIKE WEBER: And I would imagine they'll  
20 be part of our Reactor Safety Team here.

21 MALE PARTICIPANT: Okay.

22 MIKE WEBER: Because that group is still  
23 brainstorming on what could be done to cool the pools  
24 and, also, cool the reactors.

25 MALE PARTICIPANT: Okay. And you guys are

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1 going 24/7, right?

2 MIKE WEBER: That is correct.

3 MALE PARTICIPANT: All right. We will  
4 start sending somebody up there.

5 MIKE WEBER: Okay.

6 MALE PARTICIPANT: Great. Thank you.

7 MIKE WEBER: Thank you, Steve.

8 MALE PARTICIPANT: Yes. Bye-bye.

9 MIKE WEBER: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: This is the  
3 Headquarters Ops Officer.

4 Hey, Mike, we're trying to Cathy Haney.  
5 We have the other three. Do you want this connected?

6 MIKE WEBER: Yes.

7 MALE PARTICIPANT: I'll connect the  
8 bridges. We're still waiting on Cathy Haney, but I'll  
9 put the other ones up on the bridge.

10 MIKE WEBER: Okay. That's good.

11 MALE PARTICIPANT: Thank you.

12 MIKE WEBER: Thank you.

13 MALE PARTICIPANT: Hello. Mike, Brian,  
14 and Eric?

15 MALE PARTICIPANT: Stand by, please.

16 MALE PARTICIPANT: Okay.

17 (Pause.)

18 MALE PARTICIPANT: Okay. This is the  
19 Headquarters Ops Officer. The persons requested are  
20 on your bridge.

21 MIKE WEBER: Hi. This is Mike Weber.

22 CATHY HANEY: Hi, Mike.

23 BRIAN: Hi, Mike. Brian.

24 MALE PARTICIPANT: Cathy, Brian, Eric, and  
25 Mike.

1 ERIC: Yes, Eric is on the line.

2 JACK: Eric, this is Jack. I'm here.

3 ERIC: Thanks, Jack.

4 MIKE WEBER: I just wanted to speak to you  
5 briefly. You know, the Chairman is about to testify  
6 before the House Committee, and we're going out with a  
7 press release saying that we do not, or that we  
8 recommend -- we no longer concur with the Japanese  
9 recommended protective action, and we recommend that  
10 U.S. citizens evacuate within 50 miles of the affected  
11 nuclear power plant.

12 That is likely to trigger a lot of  
13 interest among our congressional committees and  
14 members for more information, more than what they will  
15 get in the Chairman's testimony in the hearing, et  
16 cetera. Consequently, Bill asked that we put together  
17 a group such as yourselves, senior managers, that  
18 could be prepared to get up-to-speed on what is the  
19 current conditions and what is the U.S. doing about it  
20 from the NRC's perspective. So that you can be our  
21 ambassadors in communicating with staff from the  
22 Members, from the committees, on what we're doing.

23 So, I only ask that you give that some  
24 consideration. Hopefully, you'll be here the  
25 remainder of the week, when the priority needs will be

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1 in providing those kind of briefings.

2 We'll work with the staff back here to  
3 make arrangements to bring you up-to-speed, equip you  
4 with the tools that you need to do the communication,  
5 allow you to ask questions, et cetera, and, then, make  
6 sure you're ready to go for those briefings starting  
7 tomorrow.

8 Questions? Comments?

9 BRIAN: No. That's fine.

10 I got a call -- you know, Jennifer is down  
11 with the Chairman.

12 MIKE WEBER: Right.

13 BRIAN: She called me and said that the  
14 Chairman wanted to MACCS, which is the dose computer  
15 code we have --

16 MIKE WEBER: Right.

17 BRIAN: -- MACCS calculations done looking  
18 at an exclusion zone beyond 50 miles. And so, we've  
19 got Sandia all cranking on those, just to let you  
20 know.

21 MIKE WEBER: So, this would be a large-  
22 scale release that would deposit contamination beyond  
23 50 miles?

24 BRIAN: Yes. Well, I mean, what we're  
25 doing is she says he thinks the exclusions, we should

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1 look for an exclusion zone beyond 50 miles.

2 I don't have a lot of details of what  
3 assumptions we should be making. I haven't had a  
4 chance -- you know, she had to go, and I haven't had a  
5 chance to talk to Sandia in terms of what kind of a  
6 source-term they're assuming.

7 MIKE WEBER: Brian, I would connect up  
8 with PMP because they can share with you and research  
9 the current assumptions that we're making for the  
10 calculations.

11 BRIAN: Yes, okay. I'll do that.

12 MIKE WEBER: Okay.

13 CHARLIE MILLER: The other thing, Brian --  
14 this is Charlie -- in this press release we just  
15 mentioned, the Chairman directed us to attach the data  
16 that was used to support that decision. So, we've got  
17 RASCAL runs out --

18 CATHY HANEY: Charlie, that's consistent.  
19 When I was in there on Monday night, and we were in  
20 the same position about not agreeing with the  
21 Japanese, and going out with a press release --

22 CHARLIE MILLER: Yes.

23 CATHY HANEY: -- that's one of the things  
24 that was --

25 CHARLIE MILLER: (Inaudible) cleared the

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1 White House. And so, it's going out with the press  
2 release, just so you know that.

3 CATHY HANEY: Yes, yes.

4 CHARLIE MILLER: Okay.

5 ERIC: Mike?

6 MIKE WEBER: Go ahead.

7 ERIC: Mike, this is Eric. I've got a  
8 question.

9 So, you've got a bunch of material that's  
10 assembled and you want us to be spokesmen if we get  
11 questions from congressional stakeholders. Should we  
12 come to the Ops Center to pick up that information?  
13 How do you want to handle the logistics?

14 MIKE WEBER: We'll work out the logistics  
15 from here. We don't need to take your time now to do  
16 that, but we'll work with your staff to make those  
17 arrangements.

18 ERIC: Terrific. Thank you.

19 MIKE WEBER: I just wanted to give you the  
20 heads-up that we may be calling upon you to provide  
21 that kind of support over the next several days.  
22 Okay?

23 ERIC: No problem. That's what we're here  
24 for.

25 MIKE WEBER: All right.

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1 BRIAN: Okay.

2 MALE PARTICIPANT: Hey, while I've got you  
3 on the line, can I talk with, well, both of you? I  
4 mean, I'm sorry, Charlie and Mike.

5 CHARLIE MILLER: Okay.

6 MALE PARTICIPANT: The others can stay on  
7 or not, depending on what is your interest.

8 Charlie?

9 CHARLIE MILLER: Yes, sir.

10 MALE PARTICIPANT: You know, you asked me  
11 to touch base with the RAs about the RSLOs. I have  
12 done that. I talked to all four RAs.

13 Mike, you might be interested in knowing  
14 that I gave them a heads-up on the current situation,  
15 the gravity, [REDACTED]

16 [REDACTED] I asked them  
17 to please keep it to themselves.

18 And we talked about the challenges that  
19 the Regions are facing with regard to communications.

20 We have sent them a copy of the Chairman's Q&As that  
21 he went down to the Hill with. And we're continuing  
22 to work our share points side. I've put (inaudible,  
23 possibly "Nancy" or "an NCS") as manager in charge of  
24 that, and we're going to add more staff, so that we  
25 can expedite communications. And we think that that's

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1 going to be a huge challenge going forward. All  
2 right? But I did that.

3 Oh, yes, and Charlie, I also sent an  
4 email. I talked with Josie Piccone. I sent an email  
5 to her and Rosetta (phonetic), also sending them the  
6 Chairman's Q&As and to let them know that I've touched  
7 based with the Regional Administrators.

8 CHARLIE MILLER: Great. So, if you need  
9 support from FSME on that, just work through Scott.  
10 Okay?

11 MALE PARTICIPANT: Yes, and I had talked  
12 with Scott. So, that's one item.

13 A second item, Mike, you might be  
14 interested in. You know, we, NRR, took the lead for  
15 scheduling this Commission meeting next week.

16 MIKE WEBER: Right.

17 MALE PARTICIPANT: All right. We  
18 assembled a scheduling note. You'll be receiving it  
19 shortly via email.

20 And I'm sure that we're going to be  
21 working on our talking points over the weekend, but  
22 we've got you at the table. I've got Bill Borchardt,  
23 you, Marty Virgilio, Eliot, and me sitting at the  
24 table with basic topic areas that we're going to  
25 cover.

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1 MIKE WEBER: What day are we doing this?

2 MALE PARTICIPANT: Well, I was hoping it  
3 was going to be Tuesday or Wednesday. My staff says  
4 that the Commission is pushing for it for Monday.

5 MIKE WEBER: Yes, we'll have to work it  
6 with staffing the Ops Center, too, right?

7 MALE PARTICIPANT: Yes, sir.

8 MIKE WEBER: But we'll work it out.

9 MALE PARTICIPANT: Okay. We're working  
10 it.

11 MIKE WEBER: Okay.

12 MALE PARTICIPANT: All right.

13 MIKE WEBER: Thank you.

14 MALE PARTICIPANT: Very good. That's all  
15 I've got.

16 MIKE WEBER: We'll let you go.

17 MALE PARTICIPANT: Thank you.

18 CHARLIE MILLER: Thank you, Eric.

19 MIKE WEBER: Thank you.

20 ERIC: All right. Bye.

21 MIKE WEBER: Bye-bye.

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(CONFERENCE CALL INITIATED)

JOSH BATKIN: Hi. This is Josh. Hello.

MALE PARTICIPANT: Go ahead, Josh.

JOSH BATKIN: Hi. Could I ask a quick, huge favor, please?

MALE PARTICIPANT: Sure.

JOSH BATKIN: Can you please email Rebecca Schmidt and Amy Powell with a very brief summary of the PEGs as well as the levels at which the PEGs are reached? It does not need to be pretty. It does need to be very quick.

MALE PARTICIPANT: Okay.

JOSH BATKIN: Thank you.

MALE PARTICIPANT: Right. We've got it.

JOSH BATKIN: Okay. Thanks.

MALE PARTICIPANT: Becky, Josh, and Eliot. Amy Powell.

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1 (CONFERENCE CALL INITIATED)

2 MIKE WEBER: Hi, John.

3 JOHN MONAGER: Hi, Mike. How you doing,  
4 sir?

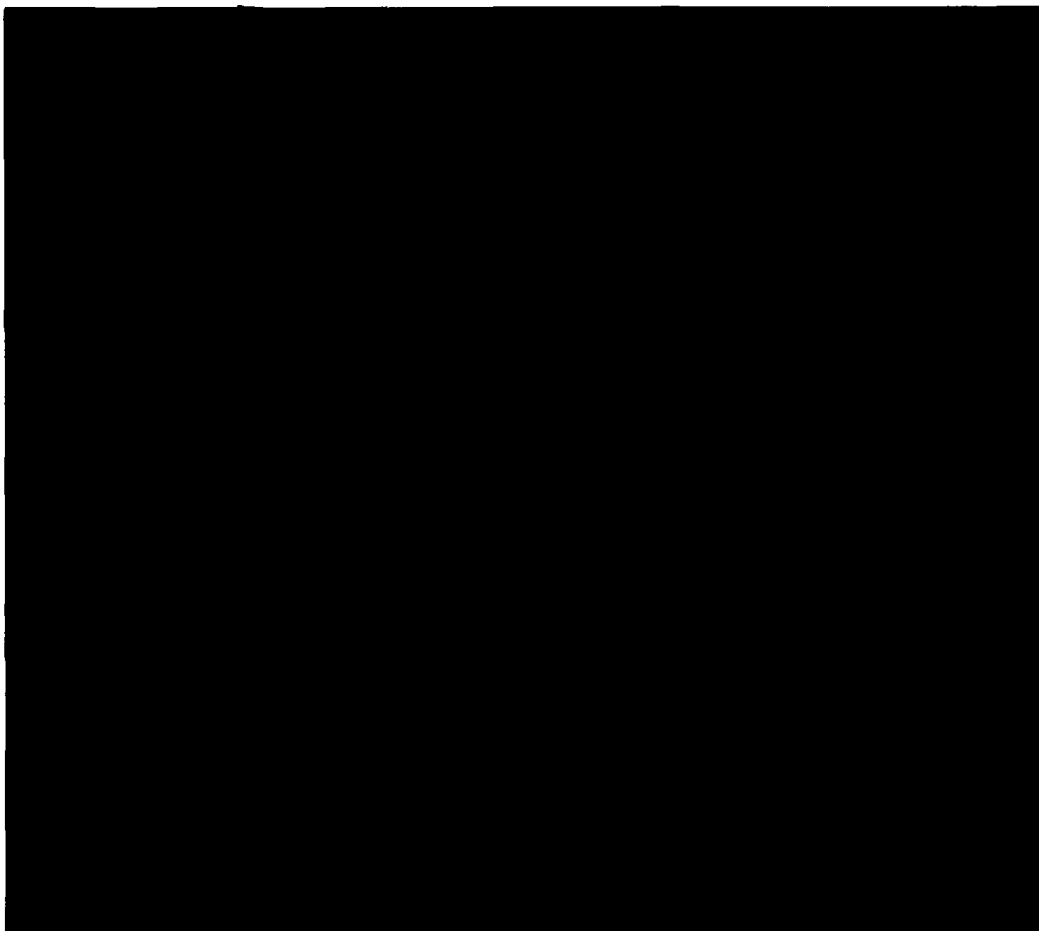
5 MIKE WEBER: Okay. How are you?

6 JOHN MONAGER: Good, good, good.

7 MIKE WEBER: Are you getting rest? It's  
8 two o'clock in the morning over there.

9 JOHN MONAGER: Yes, it is two o'clock in  
10 the morning.

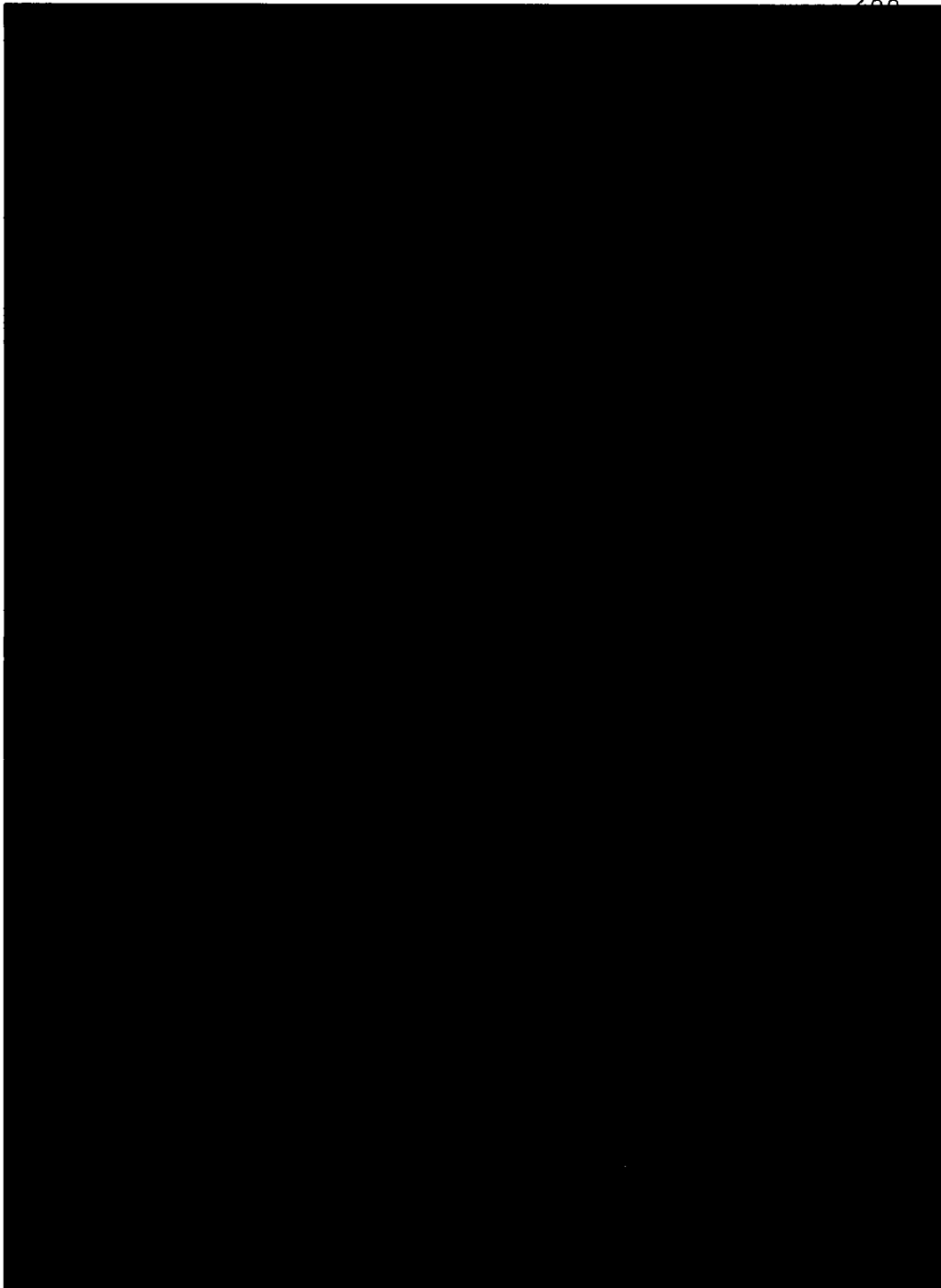
11 So, it's interesting, just everything  
12 going on. It's actually quite busy.



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MALE PARTICIPANT: The status of whether  
or not it's moving this way or can it be moved, or  
what, any updates you can have for the Ambassador  
would be good.

MALE PARTICIPANT: Are you talking about

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1 the call that takes place at 0800 Washington time?

2 MALE PARTICIPANT: I'm not sure --

3 JOHN MONAGER: Probably not 0800 because  
4 he's having it here tomorrow morning, which is your  
5 guys' tomorrow night.

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Okay.

8 JOHN MONAGER: So, this sounds like  
9 something within just maybe the --

10 MALE PARTICIPANT: State Department?

11 JOHN MONAGER: -- the Department of State  
12 or maybe multiple departments, et cetera, that the NRC  
13 isn't part of.

14 So, you know, it just seems that there is  
15 good potential for a disconnect. I'm not sure exactly  
16 who we reach out to within the Department of Defense,  
17 et cetera, and it probably goes to a list of  
18 individuals who are working it. And if they send out  
19 this request here, it will probably go to different  
20 groups of people, and you'll have multiple parties  
21 chasing the same thing.

22 MALE PARTICIPANT: Yes. Well, it can't  
23 hurt if that support lines up in advance the  
24 diplomatic channel that is going to be necessary for  
25 the request that actually come in, right?

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1 JOHN MONAGER: Okay. Yes.

2 MALE PARTICIPANT: What we're doing is  
3 preparing for receipt of the request.

4 JOHN MONAGER: Right.

5 MALE PARTICIPANT: So that we're able to  
6 respond promptly, should it be made.

7 JOHN MONAGER: Right. Well, I think the  
8 thought is, too, I'm not sure how much will the other  
9 federal agencies get back to you and say, "Yes, we  
10 have this equipment," "No, we don't," or "Yes, we have  
11 it and we think we can get it out there in 22 hours."

12 MALE PARTICIPANT: That's what they're  
13 working on right now, John.

14 JOHN MONAGER: So, you think that you'll  
15 have that kind of details?

16 I did see Joe Williams -- I guess it was  
17 Joe -- he put together a hand schematic, which  
18 actually looked pretty good, and the list of  
19 equipment, et cetera. And I think it's -- well,  
20 reading it off the BlackBerry -- but it looks pretty  
21 much like what we described.

22 MALE PARTICIPANT: Well, that's good  
23 because that's what we gave him.

24 JOHN MONAGER: Yes. So, where does your  
25 guys' request for assistance go to?

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1 MALE PARTICIPANT: We're working it back  
2 through the military, well, through all different  
3 channels, but that's the primary channel.

4 CHARLIE MILLER: Hey, John, this is  
5 Charlie.

6 Naval Reactors called and they're going to  
7 be sending somebody to come over and sit with the RST  
8 24/7. So, that will give us somebody embedded here.

9 JOHN MONAGER: That would be good.

10 MALE PARTICIPANT: Yes, there was a desire  
11 to participate with us in doing some out-of-the-box  
12 thinking to provide assistance to our Japanese  
13 colleagues.

14 JOHN MONAGER: Yes. I mean it would also,  
15 hopefully -- you know, we've had a couple of little  
16 mixed thoughts on the information out there between us  
17 and Naval Reactors, and having everyone together would  
18 be good.

19 MALE PARTICIPANT: Yes, I think they came  
20 to the same conclusion. So, we appreciate their  
21 support and welcome their cooperation.

22 JOHN MONAGER: Now we also got a call from  
23 U.S. Japan Forces here --

24 MALE PARTICIPANT: Yes?

25 JOHN MONAGER: -- wanting to know what the

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1 status of the units and the spent-fuel pools, and we  
2 gave that, and, essentially, how could they help. And  
3 I mentioned, you know, there is this call out there  
4 for the equipment, et cetera; maybe it would come  
5 their way, et cetera.

6 But these two guys, Cory Wright (phonetic)  
7 and Alex Robinson (phonetic), they want to stop by  
8 maybe once a day or so, fly up and visit, just to see  
9 how the military, the U.S. military on the islands out  
10 here could provide more assistance.

11 MALE PARTICIPANT: Yes, I would, I mean,  
12 use your contacts. You're there as part of the DART  
13 (phonetic). So, that's an interagency initiative  
14 that, if AID can be brought to bear to make the  
15 arrangements to transport some of these things, that  
16 would also be beneficial.

17 JOHN MONAGER: Right.

18 MALE PARTICIPANT: You have the diagram  
19 now that we drew up.

20 JOHN MONAGER: Yes. So, you guys are fine  
21 if we just continue to pass it through other routes  
22 then?

23 MALE PARTICIPANT: Oh, absolutely.

24 MALE PARTICIPANT: The Ambassador, he kind  
25 of wanted to wait before he called the Prime Minister

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1 to know if, yes, we do have some of that equipment  
2 here or if we had a status as to whether or not we can  
3 get it all, or what.

4 MALE PARTICIPANT: Now that we don't know  
5 yet.

6 MALE PARTICIPANT: Six o'clock in the  
7 morning, is that when the call is? We're supposed to  
8 call him anytime during the night. So, when you find  
9 something out, we need to know.

10 MALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: I guess there were two  
12 other things, too. There was some internal memo or  
13 status report I guess DOE was sending out.

14 MALE PARTICIPANT: Yes, here at the  
15 Embassy they're going to be sending out an evacuation  
16 order for Japan here 50 miles radius of the plant.  
17 I'm not sure exactly when they're going to put that  
18 word out, but non-essential people are going to be  
19 evacuated.

20 JOHN MONAGER: Now is that consistent with  
21 the discussions you guys had with Chuck earlier?

22 CHARLIE MILLER: Yes.

23 JOHN MONAGER: Go ahead.

24 CHARLIE MILLER: Yes. You're saying that  
25 -- I want to make sure I got that clear, John. This

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1 is Charlie.

2 JOHN MONAGER: Yes.

3 CHARLIE MILLER: The Japanese Government  
4 is going to make this decision?

5 MALE PARTICIPANT: No, the U.S. Embassy.

6 JOHN MONAGER: No, the U.S. Embassy for --

7 CHARLIE MILLER: Well, (inaudible)  
8 decision is consistent with what we're doing, and we  
9 have been instructed by the Chairman to prepare a  
10 press release that says that, that would go out right  
11 after the Ambassador puts his out.

12 JOHN MONAGER: Okay. Okay. Yes, I --

13 CHARLIE MILLER: It's out to 50 miles.  
14 Okay?

15 MALE PARTICIPANT: That's correct, yes.

16 JOHN MONAGER: We were at a different  
17 meeting when Chuck was here, and, then, we never  
18 touched based again. Yes, okay.

19 CHARLIE MILLER: We've also been  
20 instructed by the Chairman to attach the data file,  
21 the RASCAL ones, that support that, which we have  
22 done.

23 MALE PARTICIPANT: And this has been all  
24 coordinated at the highest level of the United States  
25 Government.

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1 MALE PARTICIPANT: Okay. All right.

2 MALE PARTICIPANT: But we don't know  
3 exactly when they'll send that order out, but it's  
4 been reviewed by us and, then, signed off by the  
5 people here at the Embassy.

6 MALE PARTICIPANT: Okay. Embassy staff  
7 should be bracing for questions. Because when we go  
8 out with our press release, that's going to garner a  
9 lot of interest and questions.

10 MALE PARTICIPANT: All right. Yes.

11 MALE PARTICIPANT: And the issue there is  
12 that, you know, a 50-mile evacuation order, somebody  
13 has got to translate that into the Prefectures that  
14 that would pertain to, and we don't have that  
15 information here.

16 CHARLIE MILLER: And in kilometers.

17 MALE PARTICIPANT: Yes. Just an update,  
18 John, we're told that State has issued their press  
19 release, and we're in the process of issuing ours.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: Then, the other thing,  
22 Tony, he had attended a meeting. He wanted to just  
23 fill you guys in on what some of their plans were out  
24 here.

25 MALE PARTICIPANT: Okay.

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1 TONY NAKANISHI: Hi, Mike. This is Tony  
2 Nakanishi.

3 I attended a Conti meeting. It was  
4 basically a mixture of METI, Ministry of Foreign  
5 Affairs, TEPCO, NISA. And the sense was that they  
6 were very forthcoming with the information.

7 MIKE WEBER: Good.

8 TONY NAKANISHI: We went through a lot of  
9 the details in terms of the chronology and stuff like  
10 that. And I think a lot of the assumptions that the  
11 team, the NRC staff team, has is consistent with what  
12 we have discussed during that meeting.

13 One of the things, one of the items that  
14 kind of came up was in terms of the next steps, the  
15 immediate steps, related to the Unit 4 spent-fuel pool  
16 situation. And they were sort of looking for some  
17 feedback. And this pertained to, basically, the  
18 debris that has blocked the access to the spent-fuel  
19 pool for the fire trucks to hose down the spent-fuel  
20 pool.

21 And one gentleman from the Ministry of  
22 Foreign Affairs had called me just a couple of hours  
23 ago. You know, he kind of apologized. He assumed  
24 that he woke me up.

25 But they indicated that they are going to

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1 move forward with this plan to go forward and remove  
2 the debris and proceed to get the facility to cool the  
3 spent-fuel pool.

4 At the meeting earlier, they had asked me  
5 if there were any risks that they should be  
6 considering relative to that. And I had indicated  
7 that we'll discuss that with the team here and get  
8 back to them.

9 And I didn't know that they were planning  
10 to do that in a few hours now. So, what we are  
11 planning to do is to call the contact, the NISA  
12 contact, and in consultation with the team here, I  
13 think we are basically saying that at this point you  
14 ought to move forward with that, understanding that  
15 there is potentially going to be some harm to whoever  
16 is going to be conducting that.

17 MALE PARTICIPANT: Tony, obviously, in  
18 addition to the high rad fields they're likely to  
19 encounter, I mean they could also be operating in a  
20 hydrogen-rich environment.

21 TONY NAKANISHI: Right.

22 MALE PARTICIPANT: And so, if they're  
23 going to clear that debris with machinery, they need  
24 to be careful.

25 Dave Skeen is walking in.

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1 Dave, we're talking to Tony Nakanishi, and  
2 he's been having productive discussions with his  
3 counterparts in Japan.

4 DAVE SKEEN: Okay. Good.

5 MALE PARTICIPANT: And they're preparing  
6 to, in several hours I think, enter the Unit 4 area to  
7 begin clearing debris. And so, they're having  
8 discussions about what risks they may encounter as  
9 they go about doing that.

10 MALE PARTICIPANT: Just understand they  
11 are going to be clearing the road in front of the  
12 building so they can get the fire truck in. They're  
13 just moving debris outside now.

14 MALE PARTICIPANT: Oh, okay. So, they're  
15 outside of the building?

16 MALE PARTICIPANT: Yes, they can't get the  
17 fire truck close enough. So, they just wanted to see  
18 if there's anything, while they're moving that, any  
19 risk that maybe we thought they should be aware of  
20 that they might not be aware of. But we don't have  
21 any --

22 MALE PARTICIPANT: We don't know how  
23 stable the buildings are, but I assume, if you are  
24 taking a bit of the debris away from around the  
25 building, you should be okay.

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1 MALE PARTICIPANT: We're going to tell  
2 them to just do whatever it takes to get the stuff out  
3 of the way to get that fire truck in.

4 MALE PARTICIPANT: Yes. Right. And we  
5 don't know what the R field might be there, but  
6 they're looking at it.

7 MALE PARTICIPANT: We do have some actual  
8 readings for you, if you want them.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: Helicopter over Unit 4,  
11 247 millisieverts per hour.

12 MALE PARTICIPANT: What elevation?

13 MALE PARTICIPANT: We don't have that,  
14 unfortunately.

15 Did they mention it, Tony?

16 TONY NAKANISHI: No. I should have asked.  
17 But we have the time. That was about 5:30 Japan  
18 time.

19 MALE PARTICIPANT: And was it directly  
20 over Unit 4?

21 TONY NAKANISHI: Yes, that's correct. And  
22 they tried, I guess they tried to do the same thing  
23 for Unit 3, but they decided not to because something  
24 told them it might have been higher.

25 MALE PARTICIPANT: That the levels over

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1 Unit 3 would be higher?

2 MALE PARTICIPANT: That's what they said;  
3 rads were too high.

4 MALE PARTICIPANT: Wow!

5 TONY NAKANISHI: [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 MALE PARTICIPANT: Fuel pool.

9 TONY NAKANISHI: -- yes, fuel pool and  
10 building, basically.

11 MALE PARTICIPANT: So, Unit 3 might be  
12 more degraded than Unit 4 in terms of spent-fuel?

13 MALE PARTICIPANT: We don't know. [REDACTED]

14 [REDACTED]

15 [REDACTED]

16 [REDACTED]

17 MALE PARTICIPANT: When gas gets released,  
18 (inaudible) shine. Unit 4 is probably just shine, and  
19 3 is gas (inaudible).

20 MALE PARTICIPANT: Keep going.

21 MALE PARTICIPANT: That's all we had for  
22 the rad load except the 20 to 30 rem around, between  
23 Unit 3 and Unit 4.

24 The control room, they're saying about 200  
25 millirem per hour, and they do have personnel onsite

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1 still in the control rooms of all the units.

2 MALE PARTICIPANT: All control rooms?


3 MALE PARTICIPANT: They didn't say "all".

4 They said that's the general -- and the place that  
5 they keep the people while they're not on shift,  
6 they've got like 50 people, or I don't know, 200  
7 people, in another staging area that's about 200  
8 millirems background.

9 That's all they would give out.

10 TONY NAKANISHI: They mentioned 30, the  
11 number, a 30-people figure for staffing. I'm assuming  
12 that's the staffing relative to possibly the control  
13 room at some point. But it seemed like it's not a  
14 constant number.

15 MALE PARTICIPANT: Anything else?

16 TONY NAKANISHI: So, no, just in summary,  
17 you know, I think they're very open. 

18 

19

20

21

22

23 MALE PARTICIPANT: Wow, that's good.

24 Okay.

25 MALE PARTICIPANT: Now, you know, one of

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1 the things, Tony was talking about his meeting and how  
2 forthcoming they were, et cetera. There was a couple  
3 of little points of disconnect between our meeting  
4 being briefed and Tony's. You know, our meeting they  
5 were much more optimistic, I think, on core cooling,  
6 you know. But, I mean, I think that's pretty much  
7 been universal, that you just keep getting mixed  
8 stories.

9 MALE PARTICIPANT: The important thing is  
10 that you're making contact and you're opening up those  
11 channels of communication.

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: That's so important in  
14 terms of our ability to work with them to provide  
15 whatever assistance we can.

16 We are probably going to be entering a  
17 heightened period of sensitivity here because of what  
18 we're about to do with the release of our  
19 announcement. And just hope that that doesn't chill  
20 your ability to communicate with your counterparts,  
21 because they're at their most critical phase right now  
22 and we've got to work with them.

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: So, thank goodness you  
25 guys are there. You are carrying the American flag,

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1 and you're doing a great service to the country.

2 MALE PARTICIPANT: Well, there may be a  
3 possibility that we may locate somewhere else, also.  
4 So, we will keep you guys informed if we need to move  
5 out of here.

6 MALE PARTICIPANT: Yes, by all means, you  
7 need to take care of yourselves, but we're just  
8 thankful that you're there and working to do the  
9 benefit of the world.

10 MALE PARTICIPANT: Yes.

11 MALE PARTICIPANT: Well, if you can get us  
12 some good news by six o'clock morning, we would like  
13 to have the Ambassador smile a little bit. It's tough  
14 around here.

15 MALE PARTICIPANT: Dave's working on it.

16 MALE PARTICIPANT: Okay. All right.

17 So, if we head out, we'll have our cell  
18 phones.

19 MALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: All right. Thanks.

21 CHARLIE MILLER: Hey, John and Tony,  
22 before you get off -- this is Charlie.

23 JOHN MONAGER: Yes.

24 CHARLIE MILLER: In your future meetings,  
25 when they have made note about how low the levels were

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1 in the control rooms --

2 JOHN MONAGER: Right.

3 CHARLIE MILLER: -- if there's any way to  
4 find out how they're maintaining in that room for the  
5 operators, that would be important, because they've  
6 got no power; they've got no AC; they've got no diesel  
7 backup. They probably have no control over the  
8 ventilation system.

9 TONY NAKANISHI: Right.

10 CHARLIE MILLER: So, how are they keeping  
11 them that low?

12

13

14 CHARLIE MILLER: Yes.

15 JOHN MONAGER: Let's just put it that way.

16 CHARLIE MILLER: That really caught my  
17 attention. Yes.

18 TONY NAKANISHI: Okay. I'll definitely  
19 keep that on my mind next time.

20 CHARLIE MILLER: Just as an aside thing,  
21 okay?

22 TONY NAKANISHI: Okay.

23 CHARLIE MILLER: Thank you.

24 MALE PARTICIPANT: Thank you. Sounds  
25 good.

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Thank you, Charlie.

CHARLIE MILLER: Thank you, guys.

TONY NAKANISHI: All right. Bye-bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is a Headquarters Operations Officer. I have Chuck Casto wanting to come up on the bridge.

BRUCE: Put him up, please.

MALE PARTICIPANT: Thank you.

CHUCK CASTO: Good morning.

BRUCE: Are you there? This is Bruce, Chuck.

CHUCK CASTO: It is a good morning for us.

BRUCE: Yes, it is, and very early, too.

CHUCK CASTO: Yes. Can we just talk for a minute?

BRUCE: Yes, sir.

CHUCK CASTO: Is there anything I should do or be aware of?

BRUCE: All we can say is the Chairman and Bill Borchardt have been before both Houses, both portions of the Congress, and just got grilled on a lot of things. So, we don't know what actually will come back to us with that regard.

But one question that Eliot has been asked is whether we have any people onsite. And I understand that everybody with you is in Tokyo.

CHUCK CASTO: Yes, that's one of my goals

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1 today, is we're supposed to be able to get to the  
2 regulators' EOC today, and we're trying to get to the  
3 EOC for TEPCO.

4 MALE PARTICIPANT: What's the time on that  
5 one?

6 BRUCE: Where are those, Chuck?

7 CHUCK CASTO: We don't know where they're  
8 at.

9 BRUCE: Are they closer to the site?

10 CHUCK CASTO: Yes, they're closer to the  
11 site.

12 BRUCE: Outside of Tokyo?

13 CHUCK CASTO: Yes. And I'm trying to get  
14 to the site, but I just don't know how to do it. I've  
15 got to figure that out today.

16 BRUCE: Okay. The other thing that we're  
17 working on, we're trying to get a little better  
18 release information and projections, dose projections.  
19 We can do that for 50 miles. And we're looking for  
20 something beyond that, and that's (inaudible) --

21 FEMALE PARTICIPANT: One hundred to 200  
22 miles.

23 CHUCK CASTO: Hey, Bruce?

24 BRUCE: Yes?

25 CHUCK CASTO: Just for you and I to

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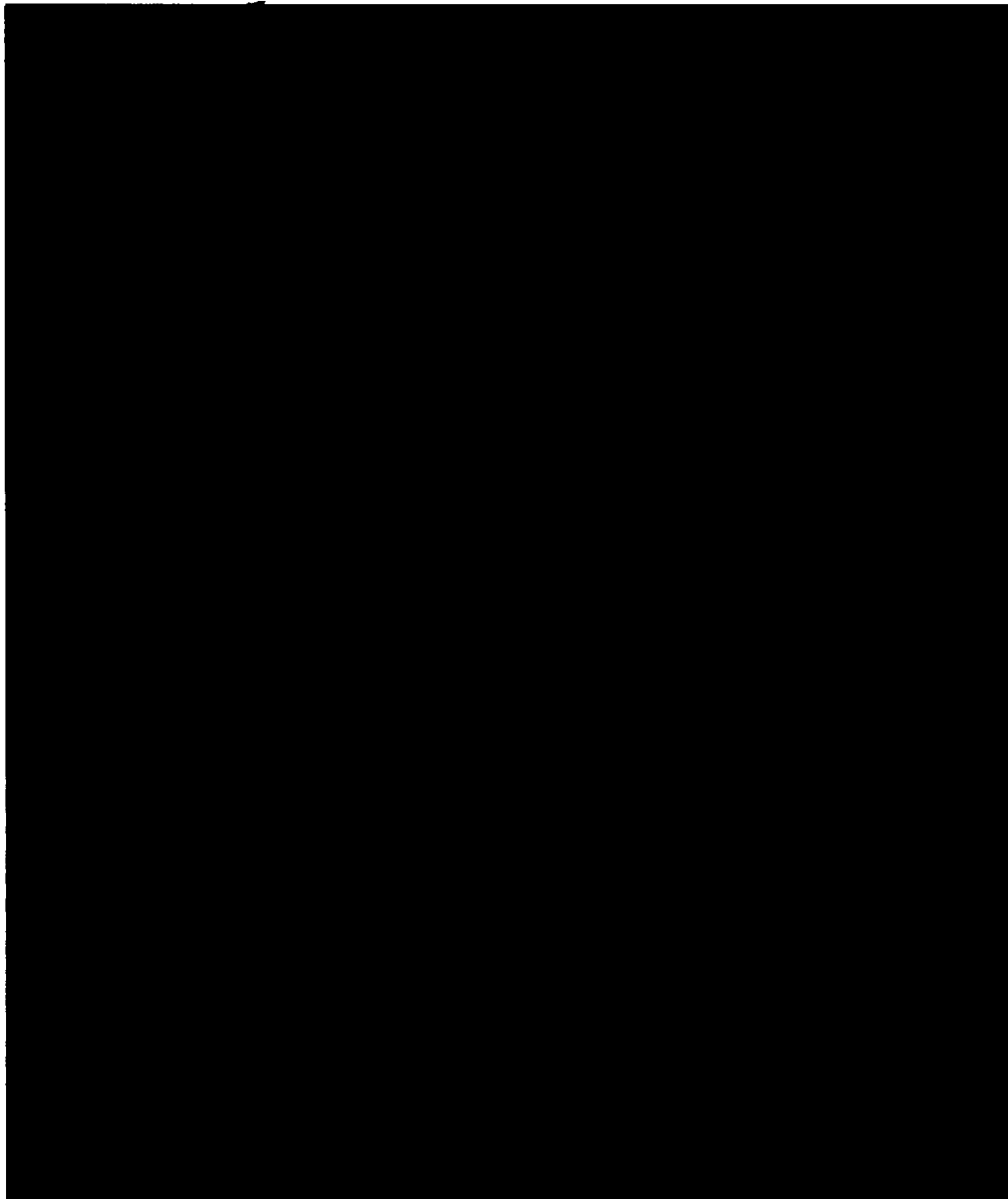
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1 brainstorm, I came, I guess, to the conclusion this  
2 morning that this has really overwhelmed TEPCO. This  
3 is a national emergency for them, and it's sort of  
4 like BP and the oil spill. You know, this is too big  
5 for TEPCO.

6 BRUCE: And that's understandable.



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24 BRUCE: No, I don't think so.

25 Do you know, Chuck, that we made the

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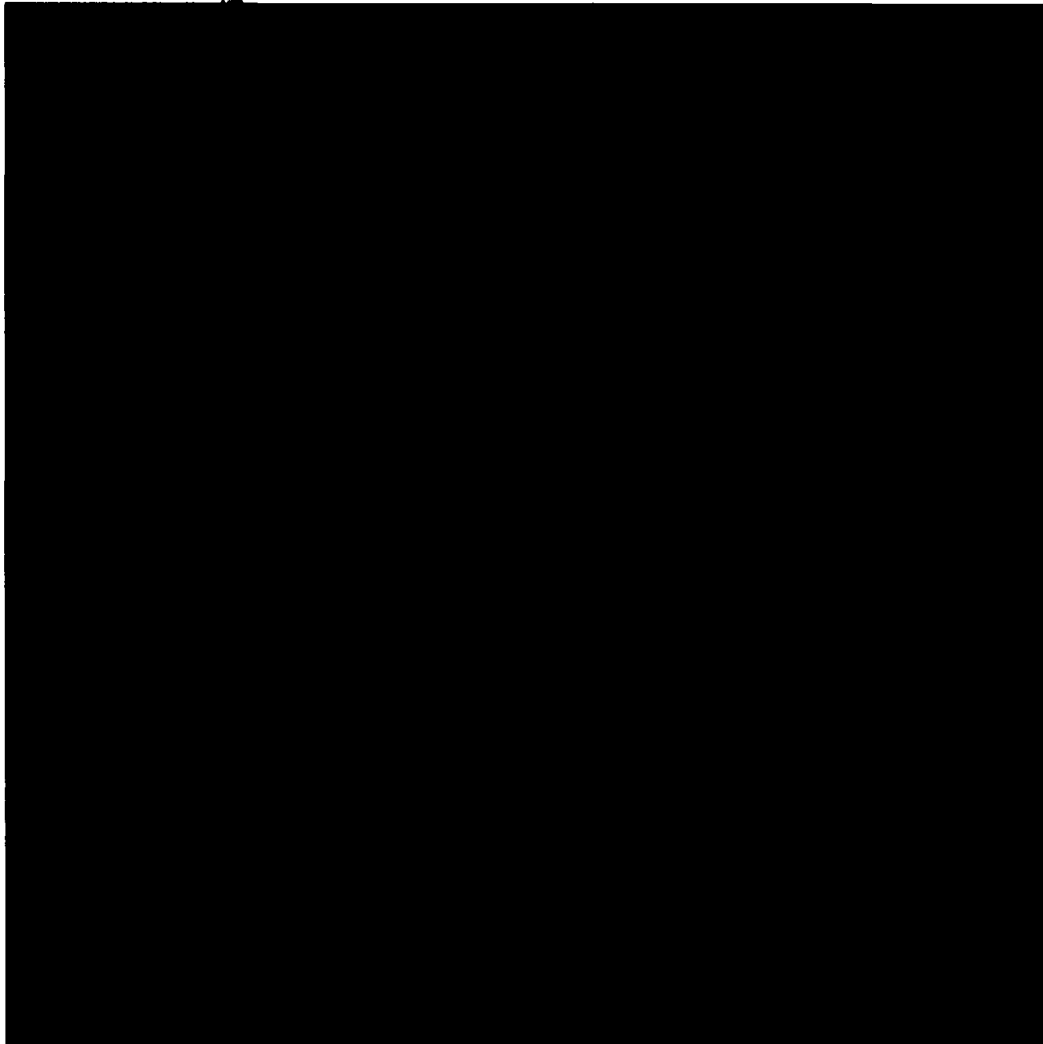
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1 recommendation that U.S. citizens be evacuated from  
2 within 50 miles of the site?

3 CHUCK CASTO: Yes, we worked on that  
4 yesterday. That was chaos.



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20 It looks like TEPCO is being much more  
21 receptive to us, to John and Tim and those guys that  
22 are putting together mitigative strategies. So, they  
23 seem to be more receptive to advice and help.

24 BRUCE: Well, I can understand how they  
25 might be overwhelmed.

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1 CHUCK CASTO: So, when you talk to Bill

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22 CHUCK CASTO: You know, Naval Reactors, I  
23 don't know how much you know about what happened  
24 yesterday on that, but --

25 BRUCE: A little bit.

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1 CHUCK CASTO: But they were the ones that  
2 suggested, you know, they need to cross the line  
3 there.

4 BRUCE: Okay.

5 CHUCK CASTO: So, anyhow, I guess I'll --  
6 we're here. I don't know if you know how to get a  
7 hold of me or us here.

8 BRUCE: Somebody knows.

9 FEMALE PARTICIPANT: Yes. I think the  
10 liaison team has everybody's numbers, cell phone  
11 numbers, and stuff.

12 MALE PARTICIPANT: We have his BlackBerry  
13 number of here.

14 FEMALE PARTICIPANT: BlackBerry numbers.

15 BRUCE: I'm getting a yes. This is my  
16 first --

17 CHUCK CASTO: Shift?

18 BRUCE: -- shift, yes. So, I'm --

19 CHUCK CASTO: I'm talking to you off a  
20 land line, but I have no idea what the phone number  
21 is. It ends in [REDACTED]

22 M.J.: That's okay. This is M.J. We've  
23 got your numbers, I know, in the back. I think the  
24 liaison team has them and we've got them around.  
25 We've been able to reach out and get Jim and Tony

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6

1 whenever we need.

2 CHUCK CASTO: What I'll do is, as soon as  
3 we get -- I think we have three briefings this  
4 morning. We have more meetings with TEPCO. And as  
5 soon as I get those briefings, each of those  
6 briefings, M.J. and Bruce, I'll call you and give you  
7 a download on that.

8 But I think what we're waiting on is, I  
9 think what we're waiting on is, what is DoD's  
10 capability with regard to the request for resources  
11 that we sent in last night? I think, last I saw, they  
12 said they could get back to us in eight hours and tell  
13 us how much of that stuff they can get done.

14 M.J.: That's that equipment list you're  
15 talking about?

16 CHUCK CASTO: Yes, the equipment list and  
17 the pumping systems.

18 M.J.: Okay. Yes, I know, I think  
19 (inaudible) got that. I know that effort is ongoing.

20 CHUCK CASTO: The other thing is somebody  
21 suggested that they're going to need a sea boom to  
22 protect the suction of that -- I think it was Richard.  
23 Didn't you suggest that? That along with that design  
24 that we sent in, that they are probably going to need  
25 a sea boom to protect the suction as well. I don't

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1 know. You know, we'll see if they can make that  
2 happen.

3 VONNA ORDAZ: Chuck, this is Vonna Ordaz.

4 How are you?

5 CHUCK CASTO: Good.

6 VONNA ORDAZ: Question: you mentioned you  
7 were heading to the site or trying to get to the site?

8 CHUCK CASTO: Yes.

9 VONNA ORDAZ: Are you familiar with the  
10 doses around the (inaudible)?

11 CHUCK CASTO: Yes. Yes, I think what  
12 we're talking about the site is the local ECO, where  
13 they're working out of that is not in that kind of  
14 dose field.

15 VONNA ORDAZ: Okay.

16 MALE PARTICIPANT: Don't put yourself in  
17 harm's way, Chuck.

18 CHUCK CASTO: Yes, I think, you know, that  
19 is considered a site; it's at the EOC, the local EOC.

20 VONNA ORDAZ: You don't know how close  
21 that is to the --

22 CHUCK CASTO: No, we don't know how close  
23 it is. We're still trying to figure out where it's  
24 at. But, you know, we were fortunate, NISA, they  
25 agreed and we're getting into their ECO, wherever that

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1 is. Somebody is doing that this morning.

2 And it looks like, the way TEPCO is  
3 talking, I'm hoping that they'll put us in their EOC.

4 MALE PARTICIPANT: This is the  
5 Headquarters Ops Officer. We have Bill Borchardt and  
6 the Chairman coming up on the bridge.

7 BRUCE: Okay.

8 BILL BORCHARDT: Good afternoon. Hi.  
9 This is Bill.

10 MALE PARTICIPANT: Hi, Chairman.

11 BILL BORCHARDT: The Chairman's with me.  
12 Is Chuck on the bridge, or is it possible  
13 to get him?

14 BRUCE: Yes, he is.

15 CHUCK CASTO: Yes, I'm on the bridge.

16 BILL BORCHARDT: All right. I'm going to  
17 give the phone here to the Chairman who has just a  
18 couple of questions.

19 CHUCK CASTO: Okay.

20 NRC CHAIRMAN JACZKO: Hello.

21 CHUCK CASTO: Yes, sir? Chuck Casto

22 NRC CHAIRMAN JACZKO: Hey, Chuck. Hey,  
23 can you just -- and I don't want you to interpret this  
24 in any way, questioning anything - I am just trying to  
25 confirm what the source of our information is.

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1 CHUCK CASTO: Which information? Mainly,  
2 our source of information is TEPCO --

3 NRC CHAIRMAN JACZKO: Okay.

4 CHUCK CASTO: -- and Conti, the  
5 Government. We're embedded, I think we're doing 24/7  
6 with their Government meeting.

7 NRC CHAIRMAN JACZKO: So, the spent-fuel  
8 pool indications, that's coming from, I would say, our  
9 team in Japan? Would that be acceptable?

10 CHUCK CASTO: Yes, they're coming from  
11 TEPCO.

12 NRC CHAIRMAN JACZKO: Okay.

13 CHUCK CASTO: They've been more receptive  
14 to, well, us and designing the cooling system, and  
15 we've got requests in on the equipment to DoD, and  
16 they're getting back with how much equipment they can  
17 get in here. They've already, I understand that  
18 they've started to move those big four pumps towards  
19 the site.

20 NRC CHAIRMAN JACZKO: So, you're --

21 CHUCK CASTO: I think that we're making  
22 progress on getting involvement and suggestions.  
23 TEPCO is reaching out to us now on the designs of the  
24 mitigating systems. And John and all the guys are  
25 putting together a design, and we're working on it.

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NRC CHAIRMAN JACZKO: Yes.

CHUCK CASTO: That you can imagine.

NRC CHAIRMAN JACZKO: Yes. So, again,  
just to repeat, we believe pool No. 4 is dry, and we  
believe one of the other pools is potentially  
structurally damaged?

CHUCK CASTO: That's correct.

NRC CHAIRMAN JACZKO: Okay. And again --

CHUCK CASTO: That's the best we know.

NRC CHAIRMAN JACZKO: Yes.

CHUCK CASTO: And we certainly know, I  
think we absolutely know that pool No. 4, though, the  
walls have collapsed --

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1 NRC CHAIRMAN JACZKO: Okay.

2 CHUCK CASTO: -- on pool No. 4.

3 NRC CHAIRMAN JACZKO: And again, because  
4 I'm going to get asked the question, where's that  
5 coming from. I'm going to say it's from a team that  
6 is in Japan that is embedded that is working closely  
7 with the Japanese utility and the Japanese regulatory  
8 agency, is that correct?

9 CHUCK CASTO: Correct.

10 NRC CHAIRMAN JACZKO: Okay. That's all I  
11 need.

12 BRUCE: Chuck, before you go --

13 CHUCK CASTO: Yes?

14 BRUCE: -- you indicated that the walls of  
15 the pool were damaged or down?

16 CHUCK CASTO: Yes.

17 NRC CHAIRMAN JACZKO: I'm not going to get  
18 into that level of detail. I mean the relevant factor  
19 is it's dry.

20 CHUCK CASTO: Yes, and they can't maintain  
21 inventory at all.

22 NRC CHAIRMAN JACZKO: Okay. Good. Thank  
23 you. I appreciate it.

24 CHUCK CASTO: Yes, sir.

25 MALE PARTICIPANT: Chuck, we got a

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1 briefing before from Tony and John, and they indicated  
2 that there was structural integrity to the core pool.

3 CHUCK CASTO: When was that?

4 MALE PARTICIPANT: That was about four  
5 hours ago.

6 CHUCK CASTO: Well, then, I need to tell  
7 the Chairman that because that's not what we  
8 understood just a few hours ago.

9 MALE PARTICIPANT: Yes, we relayed that  
10 information after we got it from your team.

11 CHUCK CASTO: Is the Chairman still on?

12 MALE PARTICIPANT: No. I think he's  
13 dropped off.

14 MALE PARTICIPANT: But it's okay because  
15 he's not going to get into that level of detail. But  
16 we just need to be careful about consistency in the  
17 assessment of the information. I know it's going to  
18 change, too.

19 CHUCK CASTO: Yes, well, we were  
20 consistent. That's what we heard; that's the last we  
21 were told, that the walls were not there.

22 MALE PARTICIPANT: Right. Because our  
23 discussion with part of your team was we thought you  
24 had abandoned the notion of putting coolant back in  
25 that pool and that you were looking more at dropping

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1 sand or something else like that?

2 CHUCK CASTO: No, we didn't suggest that  
3 at all yesterday. The Reactor Safety Team suggested  
4 the sand. We were still working with water on all  
5 four pools.

6 And, then, I said let's go both ways.  
7 Let's prepare for water and sand, get both solutions  
8 moving.

9 MALE PARTICIPANT: So, the latest update  
10 we had was that there was integrity to the 4 pool,  
11 although it had drained or evaporated.

12 CHUCK CASTO: Dry?

13 FEMALE PARTICIPANT: Bill, what did you  
14 receive from Jim?

15 MALE PARTICIPANT: Bill Ruan (phonetic) is  
16 in the room, too, Chuck.

17 FEMALE PARTICIPANT: He's been on the  
18 phone with Jim.

19 BILL RUAN (phonetic): Okay. I just  
20 talked to Jim Trapp. And let me try to give you the  
21 background of where some of this information comes  
22 from.

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1 [REDACTED] And he basically, [REDACTED]  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]

6 CHUCK CASTO: Yes, they can't keep --  
7 that's what I was told last night. You cannot get  
8 inventory above the bottom of the fuel.

9 BILL RUAN: No. What Jim told me [REDACTED]  
10 [REDACTED]  
11 [REDACTED]

12 CHUCK CASTO: So, it's drained.

13 MALE PARTICIPANT: Right.

14 CHUCK CASTO: Right.

15 BILL RUAN: Yes. Right, right.

16 CHUCK CASTO: That's what I was saying,  
17 you can't get water in it.

18 BILL RUAN: Yes, because there's no fuel  
19 pool left.

20 CHUCK CASTO: Right.

21 BILL RUAN: Unit 3, he believes [REDACTED]  
22 [REDACTED]

23 [REDACTED] And basically, everything else  
24 is gone, and at least in his opinion, and, of course,  
25 Chuck knows this, Jim's opinion is there's no water in

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1 the pool.

2 FEMALE PARTICIPANT: Unit 3?

3 BILL RUAN: Unit 3.

4 Unit 2, he believes it's drying out. If  
5 you look at the top of the building now, that hole  
6 that they created, there's steam coming out of that  
7 hole.

8 CHUCK CASTO: It's in dryout.

9 BILL RUAN: They're drying it out.

10 And, then, the only pool that might be  
11 okay is Unit 1.

12 In our discussion -- and, Chuck, I hope  
13 you're doing well, by the way -- what we don't know is  
14 what Jim told me was Daiene has declared an emergency  
15 on Unit, they've declared an evacuation.

16 So, maybe you triage this thing and try to  
17 help them maintain those units.

18 CHUCK CASTO: Well, I don't know if Bill  
19 Borchardt is still on, but --

20 MALE PARTICIPANT: No, he's not.

21 CHUCK CASTO: There was some talk  
22 yesterday about trying to get, on Unit 3, trying to  
23 get that hole bigger, so that we can push water in  
24 there from the outside.

25 MALE PARTICIPANT: Right.

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1 CHUCK CASTO: You know, yes, Unit 2. Unit  
2 2, make that hole bigger, so they can push water from  
3 the outside. I don't know how you make the hole  
4 bigger, but they need to take the top of that building  
5 down.

6 MALE PARTICIPANT: Well, we have some  
7 ideas.

8 FEMALE PARTICIPANT: What's the proximity  
9 of Daiene to --

10 MALE PARTICIPANT: It's north. Yes, it's  
11 like right up there.

12 FEMALE PARTICIPANT: Oh, it's close.

13 MALE PARTICIPANT: This is Daiichi; that's  
14 Daiene.

15 MALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: You know, as Jim has  
17 pointed out, when you do your calculations to get your  
18 nuclear engineering degree, you do your radiation, you  
19 know, what's the dose rate for the single fuel  
20 assembly? You know, you get like a million R an hour.  
21 And we've got how many fuel assemblies?

22 BRUCE: Hey, Chuck?

23 CHUCK CASTO: Yes?

24 BRUCE: One of the questions that we've  
25 had is we're getting some conflicting information, and

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1 Bill may have something more up-to-date than me. But  
2 it looked like there were a lot of attempts to try to  
3 get power back to the site. And so, we've heard in  
4 one instance that they've got the power line back to  
5 sites; others, that they're still working on it.

6 CHUCK CASTO: Yes, we don't have any  
7 information on that I've heard. The only thing,  
8 Bruce, I mean it's always helpful to get power back.  
9 But my understanding is it's really just not going to  
10 do any good.

11 BRUCE: Yes.

12 CHUCK CASTO: In some cases, there's  
13 switchgear damage. In other cases, you can't get in  
14 there to do anything anyhow.

15 BRUCE: Okay.

16 CHUCK CASTO: You know, you can't  
17 manipulate. You can't manipulate breakers or  
18 anything. So, power is helpful, but not, you know --  
19 certainly, power will help up at the other one.

20 MALE PARTICIPANT: Daiene.

21 CHUCK CASTO: Daiene. The power will help  
22 up there, certainly, but it's not going to help at  
23 Daiichi. Because there's nothing you could do with  
24 power if you had it.

25 MALE PARTICIPANT: How can we help you

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1 from this end?

2 CHUCK CASTO: Well, you know, whatever we  
3 can do to coordinate the federal response, you know,  
4 close, tighter, would be helpful. In other words, I  
5 don't know if you guys can get a bridge with Admiral  
6 Mueller and all the DoD people, INPO, GE, you know,  
7 the biggest group, American group, that we can get put  
8 together than can help.



22 MALE PARTICIPANT: When I helped respond  
23 to TMI, I was actually embedded in the licensee's  
24 staff, just the same thing, but very different, but  
25 just trying to put extra people in helping the

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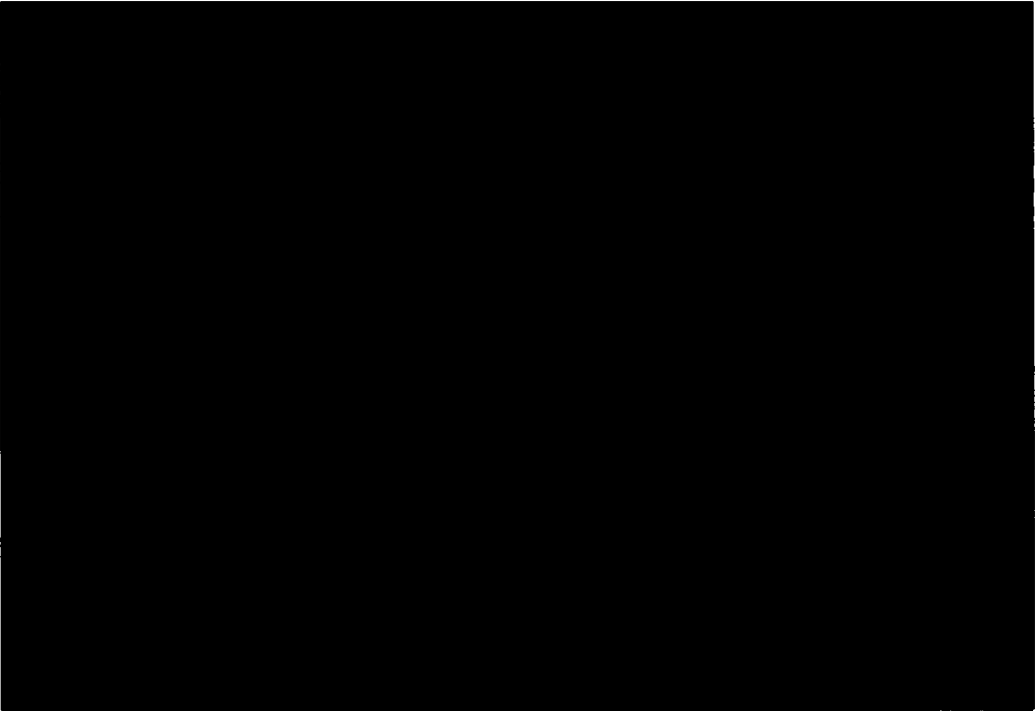
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1 licensee with their recovery or whatever they were  
2 doing. So, I could see where having a lot of extra  
3 hands would be helpful.

4 FEMALE PARTICIPANT: Again, not to be  
5 formal, but is it possible, just because of  
6 (inaudible), to get some type of brief note in case  
7 they question our official (inaudible, possibly  
8 "position")?



19 FEMALE PARTICIPANT: Okay. One second  
20 here.

21 MALE PARTICIPANT: Anything else for us,  
22 Chuck?

23 CHUCK CASTO: No. You know how to get us,  
24 if you need us.

25 MALE PARTICIPANT: Okay.

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1

CHUCK CASTO: All right. Thanks.

2

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Operations Officer. Chuck Casto is coming up on the bridge.

FEMALE PARTICIPANT: Chuck, are you there?

CHUCK CASTO: This is Chuck.

FEMALE PARTICIPANT: Hey, Chuck, you got the (inaudible, possibly "A Team").

CHUCK CASTO: Hey, I've got our team here assembled, so we can all be on one page. I'll let Tim and John brief you on the latest with respect to the spent-fuel pools and whatever else.

I think one thing we just want to clarify is, on Unit 4 spent-fuel pool, it's likely dry, but the structural integrity is uncertain, I guess is probably the best way to put it. We don't know if it will hold water or won't hold water, what the structural integrity exactly is. It's not clear that it's lost, but it's not clear that it will hold water, either.

And if you can get that information to Bill Borchardt, that would help, too.

FEMALE PARTICIPANT: Okay.

CHUCK CASTO: So, make sure that's he got a clear understanding of the Unit 4 spent-fuel pool.

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1 MALE PARTICIPANT: I'm sorry, Chuck, could  
2 you repeat that? I just want to make sure I've got  
3 this right.

4 CHUCK CASTO: I think our best knowledge  
5 tells us, from METI and TEPCO, our best knowledge  
6 tells us that the structural integrity of the Unit 4  
7 spent-fuel pool is unknown.

8 MALE PARTICIPANT: Okay.

9 CHUCK CASTO: It is likely dry, but it's  
10 uncertain whether it can hold water or not.

11 MALE PARTICIPANT: They seem to think  
12 that, if they put water up there, that they could keep  
13 the fuel cool.

14 CHUCK CASTO: You can at least spray, you  
15 can at least do steam cooling maybe. That's where  
16 they're headed on that.

17 MALE PARTICIPANT: (Inaudible).

18 MALE PARTICIPANT: I think, you know, I  
19 don't know that we were clear with that with Bill this  
20 morning. So, I just want to make sure that he's --

21 CHUCK CASTO: Hey, Bill, I'm here, too.  
22 So, you know, I certainly was unclear. I was unaware  
23 of the additional information, and I apologize, and  
24 have got to communicate through the team. I gave you  
25 a bidding based on information I had yesterday.

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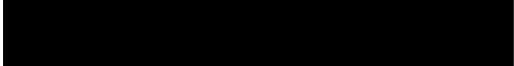
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1 MALE PARTICIPANT: Okay.

2 FEMALE PARTICIPANT: What about Unit 3,  
3 Chuck?

4 CHUCK CASTO: Unit 3, you know, the other  
5 units have, I guess the other units have water more  
6 than Unit 4 spent-fuel pool, but we don't know how  
7 much.

8 MALE PARTICIPANT: We don't know how much.

9  they gave us yesterday that  
10 looks like steam is coming out of above the fuel pool  
11 by Unit 2 and Unit 3.

12 CHUCK CASTO: Yes, Unit 2, they opened  
13 that hole. You've probably seen the picture. They  
14 opened the hole in the side of the reactor building,  
15 and it's steaming. Well, although it appears that  
16 it's one level, at least one -- Richard, what would  
17 you say? -- at least one level below where the spent-  
18 fuel pool is, which tells us that the whole building  
19 is probably full of steam, and it's venting out  
20 through that hole.

21 Unit 3, it looks like it's open to the  
22 atmosphere and it's steaming in this photo heavily,  
23 which probably mean it's by now likely dried out for  
24 Unit 3.

25 Unit 4, the photos that we have, you know,

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1 it looks like there has been some kind of an explosion  
2 up there, obviously, and it looks like there's steam  
3 [REDACTED] And there, they seem to be fairly  
4 confident -- help me out, guys -- that there the  
5 walls, that it may actually have, be structurally-  
6 sound, although they don't know if it can hold water.

7 MALE PARTICIPANT: Right. The pictures  
8 show exterior walls being demolished, but the spent-  
9 fuel pool isn't up against the exterior walls. So,  
10 they believe the more interior spent-fuel pool walls  
11 are in place and, if not, they would get significant  
12 shine from around a walk around the plant. And they  
13 don't have that.

14 CHUCK CASTO: So, we probably need to  
15 clarify that in Bill's and the Chairman's mind.

16 And the team here is headed for -- Tony,  
17 what about Conti? What do we want to say about them?

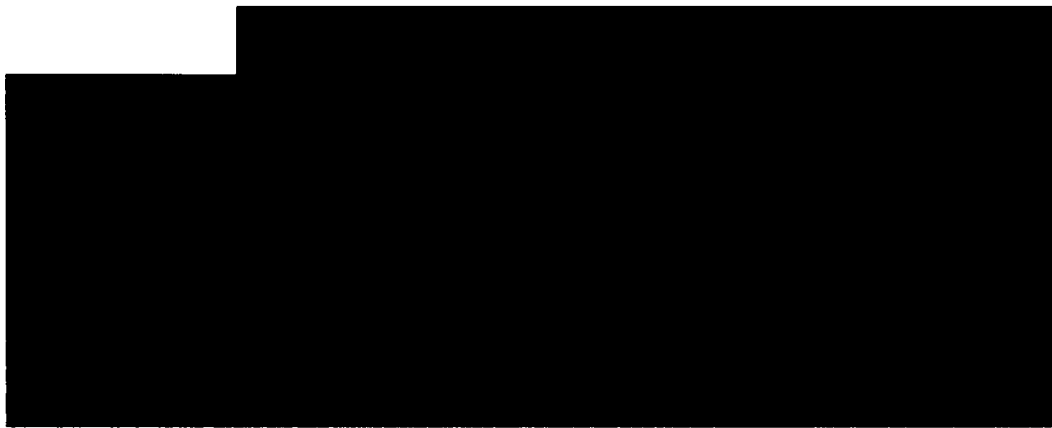
18 TONY NAKANISHI: We visited Tariakmishu  
19 (phonetic). We gave a little briefing last night  
20 after my visit to the Conti. Basically, it was a lot  
21 of people there, many folks, NISA. TEPC people were  
22 there. And basically, we were trying to go through  
23 some of the chronology in a little more detail, but,  
24 in general, they were very open and forthcoming with  
25 information.

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So, clearly, at least from my experience there, they're really open about sharing information and trying, you know, to get help from us.

CHUCK CASTO: Now they, on Unit 4, I think the access road is blocked, is that right, Tony?

TONY NAKANISHI: Right. And one thing they had also mentioned was, regarding Unit 4, they sort of communicated what they intended to do regarding the debris that have sort of impeded the accessway for fire trucks to go and cool the spent-fuel pool.

So, at 6:00 a.m. this morning, which is right about what --

CHUCK CASTO: An hour ago.

TONY NAKANISHI: -- an hour ago here, assuming that they preceded as planned, they probably have started the activity to remove some of the debris around the access. And, then, if it goes as planned, my understanding is they're going to start to try to

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1 inject water into the spent-fuel pool.

2 One thing they were looking for regarding  
3 that was sort of the NRC's feedback on, you know, if  
4 there were any risk issues that they should be  
5 considering relative to that. And after consultation  
6 with the ET and, also, the team here, we're basically  
7 communicating that at this point the bottom line is  
8 get that pool cooled with water.

9 And so, granted, there's risks associated  
10 with dose and maybe potential criticality, or possibly  
11 even some hydrogen, depending on where they're headed,  
12 basically, the bottom line was they should proceed as  
13 planned. So, that was that point regarding Unit 4.

14 I believe today we're going to go back  
15 there, and there were some items that they wanted to  
16 share with us that we deferred it to today. So,  
17 that's more details regarding the dose situation. So,  
18 we'll be heading over there at 10 o'clock, I believe.

19 CHUCK CASTO: This is Chuck.

20 Anything -- wait a minute. Hold on.  
21 Richard's got something.

22 RICHARD DeVERCELLY: One thing I'll add --  
23 this is Richard DeVercelly -- the strategy to get the  
24 water into the spent-fuel pool I definitely believe is  
25 the right thing to do. One thing that we need to be

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1 prepared for and understand is, depending upon the  
2 amount of fuel exposure that is already occurring in  
3 there, and the temperature of the cladding that's on  
4 that fuel, we could end up with some fuel damage as a  
5 result of the overquenching.

6 MALE PARTICIPANT: Which may have been  
7 already damaged.

8 RICHARD DeVERCELLY: Correct. So, we  
9 could anticipate potential releases, elevations of  
10 radiation, contamination. It's the right thing to do;  
11 it needs to be cooled.

12 MALE PARTICIPANT: Right. I mean, right,  
13 you're talking like balloon and burst, right?

14 RICHARD DeVERCELLY: I'm talking like  
15 throwing hot water on an iced-over windshield. There  
16 would be fragmentation of the fuel cladding as a  
17 result of overcooling.

18 MALE PARTICIPANT: Right.

19 MALE PARTICIPANT: A lot of the fuel is  
20 probably melted. I mean, if you got that exothermic  
21 reaction to be generating all that hydrogen gas, an  
22 actual exothermic reaction produces twice the heat of  
23 decayed heat. There's probably quite a bit of spent-  
24 fuel pool that, whether it's melted some or --

25 MALE PARTICIPANT: That's correct.

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1 MALE PARTICIPANT: -- open, or whatever --

2 MALE PARTICIPANT: Just adding that more  
3 fuel failure may result in the pool when we cool it.

4 MALE PARTICIPANT: Right. (Inaudible,  
5 possibly, "There would be definitely a big shock.")

6 MALE PARTICIPANT: And they've evaluated  
7 whether that water's more effective even with that  
8 risk? It's more effective to put water on it than  
9 sand or some sort of solid with, you know, some  
10 shielding? They've guessed on that analysis and  
11 arrived at that conclusion?

12 MALE PARTICIPANT: I don't think they're  
13 doing analysis. I think they're trying to do anything  
14 they can. My thought with the sand versus the water,  
15 I don't know where you are in four days, a week,  
16 whatever. All that heat is just going to stay down  
17 there in that sand, and it's just going to keep  
18 baking, baking, baking, you know.

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: And where are you, a  
21 thousand degrees with the sand?

22 MALE PARTICIPANT: With the sand, you may  
23 help with shine, but you're not helping with cooling.

24 MALE PARTICIPANT: Yes. I mean, well,  
25 (inaudible) months. You know, that would be a very

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1 insulated way down there --

2 MALE PARTICIPANT: And I think that NUREG,  
3 it says you cool, you use water on that core, molten  
4 core, no matter what.

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: It gets some cooling.  
7 Even it's formed a crust --

8 MALE PARTICIPANT: Right.

9 MALE PARTICIPANT: -- it gets some  
10 cooling.

11 MALE PARTICIPANT: I didn't hear, Chuck,  
12 what you said was the status of the Unit 1 spent-fuel  
13 pool.

14 CHUCK CASTO: I don't think we have any  
15 idea. We haven't seen any steam and we don't really,  
16 we don't know the status of Unit 1 spent-fuel pool.  
17 You know that, you know, nobody's been adding water to  
18 it. And it likely, like most of the American ones,  
19 doesn't have automatic makeup, you know.

20 MALE PARTICIPANT: Right.

21 CHUCK CASTO: But it would take a long  
22 time to drain just by natural evaporation. So, that's  
23 not urgent, but, so far, we haven't seen any steam out  
24 of Unit 1. I don't know. I'm sure they -- I don't  
25 know. The spent-fuel pools I'm used to, they don't

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1 have an automatic makeup.

2 MALE PARTICIPANT: No, that's right.

3 CHUCK CASTO: You get an alarm on low  
4 level, and you go fill it up.

5 MALE PARTICIPANT: They don't have the  
6 power anyway.

7 MALE PARTICIPANT: The design has no auto  
8 makeup.

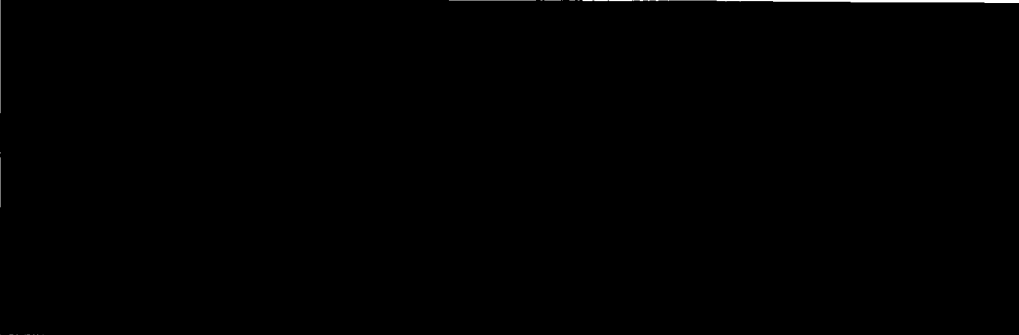
9 CHUCK CASTO: Yes. So, for a GE plant  
10 anyhow --

11 MALE PARTICIPANT: Right. You can send  
12 that signal all you want, but there's nothing to do.

13 MALE PARTICIPANT: Just one thought: we  
14 chatted last night with Mike Webber and ET, and he  
15 gave the Reactor Safety Team the list of that  
16 equipment that the U.S. would consider sending. And  
17 they were engaged in Department of Defense, et cetera.

18 I saw email from Joe Williams sending out a  
19 conceptual design.

20  
21  
22  
23  
24



25 [REDACTED] this

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1 morning to ensure that this stuff can come in. So, we  
2 were looking for an update on that.

3 We also have a 10 o'clock meeting over at  
4 TEPCO again to talk about this design and where the  
5 equipment is, and how long it's going to take to get  
6 here.

7 You guys got anything up that alley?

8 MALE PARTICIPANT: No, all we have so far  
9 is four submersible pumps at Yokota Air Force Base and  
10 a 500-gallon-per-minute diesel-driven pump, and it's  
11 ready to go. That's all we've got so far.

12 MALE PARTICIPANT: And that's all  
13 (inaudible) information that said that it's on its way  
14 out of Yokota.

15 FEMALE PARTICIPANT: Well, (inaudible).

16 MALE PARTICIPANT: I haven't actually seen  
17 it. I'm just told it exists.

18 MALE PARTICIPANT: So, give me that list  
19 again.

20 MALE PARTICIPANT: Well, you have it. You  
21 should have all the list.

22 MALE PARTICIPANT: You should have it.

23 MALE PARTICIPANT: No, no, I mean what's  
24 there, what's actually there.

25 MALE PARTICIPANT: Well, we could shoot

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1 you this. There was an email. Read it all, and we'll  
2 forward you the email, too.

3 MALE PARTICIPANT: Okay.

4 SCOTT MORRIS: Hey, Chuck, this is Scott  
5 Morris.

6 Earlier today, there was a request that  
7 came in with respect to Unit 2, and they were looking  
8 for ideas on how the walls of this facility might be  
9 removed --

10 CHUCK CASTO: Right.

11 SCOTT MORRIS: -- to enable airdrop or  
12 spraying of water.

13 CHUCK CASTO: Right.

14 SCOTT MORRIS: Have you heard any more on  
15 that?

16 CHUCK CASTO: We had (inaudible) or Mike  
17 Webber to answer it, I guess, back.

18 SCOTT MORRIS: Okay. (Inaudible) still  
19 look into it.

20 MALE PARTICIPANT: Okay. We are doing  
21 that. I just didn't know. I stepped out for a while.  
22 I didn't know whether you had heard any more.

23 I mean, yes, it is apparently steaming  
24 now, but I guess the concern is, that I have heard  
25 expressed is that, as these other spent-fuel pools

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1 steam down and lose inventory, rad levels are only  
2 going to go up at the site, and the opportunity to  
3 bring in some of these temporary measures is going to  
4 be limited just because of the dose rates onsite.

5 So, it would behoove -- the reason I'm  
6 raising it is it would behoove folks to perhaps  
7 consider making sure that the inventory in spent-fuel  
8 pools in Unit 1 and 2 don't go below a certain point  
9 to keep the rad levels at least stable. Because if  
10 those go below, then rad levels are, you know --

11 MALE PARTICIPANT: They have no way  
12 whatsoever of telling what. They're just dumping  
13 water whenever they have it available.

14 MALE PARTICIPANT: That's why we're trying  
15 to get this spray system. You know, you can't get in  
16 there to do anything. And, you know, they're still  
17 just trying to clear a road to the site.

18 MALE PARTICIPANT: Yes. The reason they  
19 want the hole is right now I guess it's just one  
20 blowout panel.

21 MALE PARTICIPANT: Right.

22 MALE PARTICIPANT: If there's a spray  
23 system, they want a 5-meter-by-5-meter, or something  
24 like that, hole, so they can shoot this spray system  
25 from a hundred meters away and hit the hole. I mean

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1 the winds out here are, you know, significant, too.  
2 So, they need a large hole.

3 Also, regardless of whether they get the  
4 spray or not, they don't want the reactor building,  
5 they don't want the hydrogen explosion in the reactor  
6 building. They've got to vent that reactor building  
7 in Unit 2. They want to get that thing open, open,  
8 open.

9 We talked about, threw out an option to  
10 shooting a rocket-propelled grenade or something up  
11 there.

12 MALE PARTICIPANT: Right. No, I  
13 understand that. All I'm suggesting is simply that,  
14 when the first of these temporary measures becomes  
15 available, maybe it would be wise to try to work on  
16 the two units where we think there still is level left  
17 in the pool, as evidence by the fact that they're  
18 still steaming.

19 CHUCK CASTO: Yes. Well, we're going to  
20 do it all. We're trying it all. First of all, we've  
21 got to get stuff designed and there, and then, yes,  
22 we'll get the priorities. So, we're just going to try  
23 to get it all to it.

24 Is there anything else?

25 BILL RUAN (phonetic): Yes, this is Bill

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1 Ruan (phonetic).

2 I haven't heard for some time a report of  
3 the water status going into the cores of these units.

4 And I was just wondering if you know of any change in  
5 that status.

6 MALE PARTICIPANT: What they told us  
7 yesterday, about six hours ago, what they told us is  
8 that they had good injection through the core spray  
9 headers using some beeman (phonetic) lines, this,  
10 that, whatever. So, they had to fire some diesel-  
11 driven pumps hooked up to all four units, and they had  
12 good core spray coolant for the past 48 hours. So,  
13 they were very comfortable with that.

14 Now Tony got a little bit different  
15 information at a separate meeting.

16 TONY NAKANISHI: Right, and this is the  
17 Conti meeting. The indication there was, I guess they  
18 provided some data in terms of the level indication.  
19 And the first caveat they had was that level itself  
20 was, you know, not of high confidence. But that level  
21 was basically indicating about half of the active fuel  
22 length was uncovered.

23 MALE PARTICIPANT: Which unit, Tony?

24 TONY NAKANISHI: This is 1 and 3. And 2,  
25 Unit 2 is sort of maybe a couple of days behind the

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1 other ones because their (inaudible) was -- so, the  
2 other thing they had mentioned was they are able to,  
3 you know, even though the core is maybe half  
4 uncovered, the seawater injection has been stable.  
5 So, my understanding was that the level is, more or  
6 less, stable.

7 MALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: And the other Units 4,  
9 5, and 6?

10 TONY NAKANISHI: Well, 4, 5, and 6, they  
11 shouldn't have any fuel in the reactor because they  
12 were in shutdown.

13 MALE PARTICIPANT: Okay.

14 TONY NAKANISHI: Now although one other  
15 thing I found out was for, Unit 4, the actual shutdown  
16 happened in November of last year. So, that's a few  
17 months. So, the freshest-discharged fuel came out  
18 around November.

19 MALE PARTICIPANT: [REDACTED]

20 [REDACTED]

21 TONY NAKANISHI: Okay.

22 MALE PARTICIPANT: So, Bill, what's the  
23 RST's email address there? We want to shoot this  
24 email with this equipment available.

25 MALE PARTICIPANT: RST02, is that a good

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1 one?

2 MALE PARTICIPANT: 01.

3 MALE PARTICIPANT: Go ahead.

4 MALE PARTICIPANT: 01. Okay.

5 MALE PARTICIPANT: 01HOC.

6 MALE PARTICIPANT: RST001. --

7 MALE PARTICIPANT: No, no, no dot.

8 MALE PARTICIPANT: RST01HOC@NRC.GOV.

9 MALE PARTICIPANT: Got it.

10 MALE PARTICIPANT: RST01. --

11 MALE PARTICIPANT: No, RST01, 01,  
12 HOC@NRC.GOV.

13 MALE PARTICIPANT: Oh, okay.

14 MALE PARTICIPANT: And just cc my regular  
15 email address. So, if there's some screwup, I can  
16 forward it to them.

17 MALE PARTICIPANT: Excellent.

18 CHUCK CASTO: Okay. We're going to do  
19 some team work here. If you need anything, you know  
20 how to get a hold of us.

21 BRUCE: Chuck? Yes, Chuck, this is Bruce.  
22 I've had a couple of questions.

23 CHUCK CASTO: Sure.

24 BRUCE: The liaison team was working with  
25 a phone call between you guys and the DOE folks.

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1 MARTIN TAGGART (phonetic): This is Martin  
2 Taggart (phonetic) from the liaison team.

3 We were trying to set up a conference call  
4 with you guys and DOE, at the request of a DOE member  
5 here, to try to coordinate this DOE flyover that's  
6 going to be occurring in about an hour and a half.

7 I sent you an email to see whether or not  
8 you guys can (inaudible) that call or not.

9 MALE PARTICIPANT: The DOE guy said that  
10 they were ready to go.

11 MALE PARTICIPANT: Hold on. Where's Bill  
12 at? Bill Cook can do that, right?

13 MALE PARTICIPANT: I'm not sure where Bill  
14 is.

15 MALE PARTICIPANT: Well, I guess we could  
16 -- couldn't we tie into one of the bridge lines into  
17 the bridge?

18 CHUCK CASTO: Yes, yes, we can use the  
19 bridge. It's just who on our team is going to support  
20 that call.

21 MALE PARTICIPANT: I can do that, if you  
22 want me to.

23 CHUCK CASTO: Well, yes. Yes, we'll  
24 support it. What time is it?

25 MARTIN TAGGART: Well, we were trying to

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1 make it convenient for you guys. The email I sent was  
2 whether or not you could support it and, if so, what  
3 would be the time that you could support it. They  
4 wanted the time to do it before the flyover that's  
5 scheduled for --

6 CHUCK CASTO: 9:00 a.m. our time.

7 MARTIN TAGGART: -- eight o'clock our  
8 time, I guess would be nine o'clock your time.

9 CHUCK CASTO: Right. Yes, well, just hook  
10 up, hook them up, and call Jim Trapp. Get them, have  
11 them call Jim Trapp's cell phone.

12 MARTIN TAGGART: Jim Trapp's cell phone?

13 CHUCK CASTO: Yes.

14 MARTIN TAGGART: Okay.

15 CHUCK CASTO: And Alan, isn't Alan, DOE,  
16 the flyover guy?

17 MALE PARTICIPANT: I'll go get him.  
18 (Inaudible) this morning.

19 CHUCK CASTO: Yes.

20 MALE PARTICIPANT: They've got a night guy  
21 and a day guy.

22 CHUCK CASTO: Yes. Alan, or whoever it is  
23 up there, yes, we've got DOE here as well. So, they  
24 can hook up Jim and the DOE guy here, and DOE there  
25 can hook up and talk about the flyover.

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1 MARTIN TAGGART: Okay. So, it's going to  
2 be Jim Trapp?

3 CHUCK CASTO: Yes.

4 MARTIN TAGGART: Okay. All right. Thanks  
5 a lot.

6 CHUCK CASTO: Yes.

7 BRUCE: A couple more.

8 CHUCK CASTO: Any other questions, Bruce?

9 BRUCE: Yes, a couple more. The Daiene  
10 site was also declared an emergency, we hear. Any  
11 insight --

12 CHUCK CASTO: Yes, Jim's working, Jim's I  
13 think going to work on that, figure out what's going  
14 on there, what we need to do.

15 MALE PARTICIPANT: Okay, but we don't have  
16 any other insights right now?

17 CHUCK CASTO: Do we know anything about  
18 Daiene? No.

19 MALE PARTICIPANT: Dose rate to the site,  
20 Daiene site.

21 MALE PARTICIPANT: Yes, they have some  
22 dose rates.

23 MALE PARTICIPANT: Any recent readings on  
24 the dose rates at the site or near the site?

25 CHUCK CASTO: From the newspaper, we got

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1 60 MR at the gate.

2 MALE PARTICIPANT: At Daiichi, we got some  
3 information.

4 MALE PARTICIPANT: Yes, there's one --

5 MALE PARTICIPANT: Didn't we say 25 rem on  
6 the flyover that we had, but we don't know how high  
7 they were?

8 CHUCK CASTO: Right. Yes, we don't know  
9 how high, yes. I don't think we want to put out any  
10 numbers because we don't have any that are accurate.  
11 They flew over and got 25 millirem, but we don't know  
12 --

13 MALE PARTICIPANT: Twenty-five rem.

14 CHUCK CASTO: -- or 25 rem. We don't know  
15 if they were flying, you know, 10 feet or 10,000 feet.

16 MALE PARTICIPANT: The Japanese did that  
17 mission.

18 CHUCK CASTO: Yes.

19 BILL: Okay. So, the approach I want to  
20 have is it's going to be highly-elevated dose rate  
21 readings, but --

22 CHUCK CASTO: That's a good thing, Bill.  
23 It's high.

24 BILL: And just leave it at that.

25 CHUCK CASTO: Yes. The helicopters tried,

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1 they tried to use the helicopter and fly some water  
2 over, and they had to abort that. They couldn't --  
3 so, our helicopter theory isn't working.

4 MALE PARTICIPANT: Okay. Maybe we would  
5 want to put some lead shields around their detectors  
6 before they fly that.

7 CHUCK CASTO: Yes. So, the helicopter  
8 drop thing probably right now isn't an option.  
9 They've tried it. Unless we think we can do better,  
10 you know --

11 MALE PARTICIPANT: (Inaudible) helicopter  
12 (inaudible) dropping water.

13 CHUCK CASTO: Yes, it tried, and the dose  
14 rates were too high. They abandoned that.

15 Anything else? What other questions you  
16 guys have?

17 BRUCE: Out of all the things you're  
18 doing, what are your priorities, Chuck? You want to  
19 get folks near the site.

20 CHUCK CASTO: Yes, move people near the  
21 site. That's a priority. And --

22 FEMALE PARTICIPANT: Do you know the  
23 actual locations of the EOCs for the site, like how --

24 CHUCK CASTO: I don't think we've ever  
25 heard that. We still don't know.

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1 FEMALE PARTICIPANT: Okay.

2 CHUCK CASTO: But we're working. We're  
3 working towards that. The better relationship we have  
4 with METI and TEPCO is moving us that way slowly, but  
5 surely. And so, with Tony's help and all the guys,  
6 we're moving closer and closer to better and more  
7 information. So, that's a good thing.

8 The priority is to keep us safe and  
9 everybody, you know, in what we do, but --

10 MALE PARTICIPANT: Roger that.

11 CHUCK CASTO: And to get closer to real  
12 information is a priority, you know, the closer to the  
13 information.

14  
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24  
25 Because, I mean, you could imagine one of our

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1 operators, I think even one of our operators even in  
2 our system, if you've got four units like this, maybe  
3 six units, six spent-fuel pools, for one operator this  
4 is like the BP oil spill. For one operator to run it,  
5 you know, I think it has exceeded the capability, my  
6 opinion is, it has exceeded their capability, TEPCO's  
7 capability.



16 MALE PARTICIPANT: You just triggered a  
17 thought, Chuck. Are the other Japanese utilities  
18 pitching in? Or can you see any help from them?

19 MALE PARTICIPANT: We were in a meeting  
20 with them, and they said they had resources available,  
21 between 200 to 300 total for the Daiichi site, and  
22 that included TEPCO employees. They have borrowed  
23 some from other licensees and have some fleets there,  
24 and they have some of the civil defense forces that.

25 CHUCK CASTO: Yes, that's why I think

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1 they're undermanned. You know, they were asking us to  
2 help them put the system together, but we're not  
3 interested in going, right now, going in there and  
4 doing that.

5 But one of the goals is, if we can get the  
6 equipment, it probably needs to be mocked-up  
7 somewhere, you know, to make sure all the connections  
8 fit and all that stuff mocked-up. Now, you know, if  
9 we could do that at an American installation, that  
10 would be great, mock it up and say, okay, this system  
11 works. And, then, carry it to the site and actually  
12 do it, right, the Japanese do it. But if we could get  
13 all that in resources and mock the system up and get  
14 it going, that would be success.

15 MALE PARTICIPANT: Okay.

16 JOHN MONAGER: Will you guys have  
17 something this morning within the next hour or less on  
18 the equipment that's available?

19 MALE PARTICIPANT: I don't know, John. I  
20 know that I've seen sketches. I've seen some thought  
21 process or thought pieces.

22 CHUCK CASTO: Well, you guys work on that,  
23 try to get with whomever, Admiral Mueller, DoD,  
24 whomever it is, to try to figure out what the status  
25 of collecting it. INPO has offered resources as well.

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1 MALE PARTICIPANT: Yes.

2 CHUCK CASTO: Try to get us the status of  
3 moving that equipment towards the site. We'll try to  
4 make sure that -- I know that [REDACTED]

5 [REDACTED]  
6 [REDACTED] So, you know, it's, obviously, a  
7 multi-dimensional issue here, you know, the Government  
8 accepting it. TEPCO has asked for help, the  
9 Government accepting it, the whole, all that dynamic,  
10 you know. But, meanwhile, it doesn't do any good if  
11 we don't have any equipment.

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: The advice we have been  
14 given is to kind of lean forward, be positioned, in  
15 case they ask.

16 CHUCK CASTO: Right. So, if we could  
17 assemble those systems and get them over here, then,  
18 you know, that would be helpful.

19 MALE PARTICIPANT: And just to confirm,  
20 you want these systems physically where?

21 CHUCK CASTO: What we told them last night  
22 was to get them to the nearest American facility  
23 possible, whatever bases, Air Force base and all that  
24 kind of stuff on the island here of Japan.

25 MALE PARTICIPANT: Okay.

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1 CHUCK CASTO: That would be the best case,  
2 to have all that stuff here already.

3 MALE PARTICIPANT: Okay.

4 CHUCK CASTO: You know, we're going in  
5 another meeting with them at 10:00, and, hopefully,  
6 they'll come around. And hopefully, we'll have a  
7 contact at the Department of Defense that we can pull  
8 them in on that meeting through a teleconference  
9 because someone has got to walk through from the  
10 strainer all the way up to the spray nozzle, you know,  
11 sizes, dimensions, interconnections, elbows, boom,  
12 boom, boom.

13 Yes, you know, we've got a paper cartoon  
14 of the system and a list, but someone has got to make  
15 sure everything fits together perfectly.

16 MALE PARTICIPANT: Yes, by the way, we've  
17 gotten various phone calls from people volunteering  
18 equipment, including one utility, I think it was COTS  
19 (phonetic) or CONEYS (phonetic), had this special  
20 spray nozzle that they use to spray down the spent-  
21 fuel pools.

22 MALE PARTICIPANT: What's that called? We  
23 asked for four of those last night. Does anybody --

24 MALE PARTICIPANT: Monitors.

25 MALE PARTICIPANT: Monitors, monitor

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1 nozzles.

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: This sounds different  
4 than that, though.

5 MALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: But, I mean, with all  
7 this equipment, though, it's all great, but someone  
8 has got to make sure it all fits together. So, the  
9 people who know the details of this have got to get  
10 together.

11 MALE PARTICIPANT: Okay, but, I mean,  
12 should we send this piece of equipment?

13 MALE PARTICIPANT: CONEYS?

14 MALE PARTICIPANT: Yes, CONEYS, yes.

15 MALE PARTICIPANT: I don't know. I mean I  
16 think we've got to know whether the -- you know, we're  
17 asking for about two to three miles of piping.

18 MALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: You know, we asked for  
20 eight diesel-driven pumps. You know, I think they've  
21 got to --

22 MALE PARTICIPANT: Yes, I wouldn't worry  
23 too much about the nozzle.

24 MALE PARTICIPANT: Okay. Okay. I got it.

25 MALE PARTICIPANT: Yes. We've got bigger

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1 pieces to see if we can get first.

2 MALE PARTICIPANT: Okay. Got it.

3 MALE PARTICIPANT: It doesn't do any good  
4 if we can't get miles of pipe.

5 MALE PARTICIPANT: Okay. Got it.

6 And all this stuff is supposed to be  
7 readily transportable. For example, these pumps,  
8 these diesel, they've got to be on a trailer or a  
9 truck. They drive them up, connect it, and take off.

10 You know, the doses are so high, they  
11 can't be playing around with this.

12 MALE PARTICIPANT: And DoD can help us  
13 with all this. You know, and, then, they'll talk to  
14 Admiral Mueller. He's hot and ready to go.

15 Okay.

16 TRISH HOLOHAN: Yes, this is Trish  
17 Holohan.

18 Apparently, (inaudible). And you said you  
19 were going to talk to them about doses this morning.  
20 Is that dose information you're trying to get from  
21 them?

22 CHUCK CASTO: They're doing flyovers, DOE.

23 TRISH HOLOHAN: Okay. You're waiting to  
24 hear --

25 CHUCK CASTO: DOE FERMAC is doing

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1 flyovers.

2 TRISH HOLOHAN: Okay.

3 CHUCK CASTO: They're going to fly over  
4 from Tokyo up to the site.

5 TRISH HOLOHAN: Okay.

6 CHUCK CASTO: We need to talk about the  
7 other site, too, when you get done.

8 TRISH HOLOHAN: And they're sure that they  
9 can fly over that site?

10 CHUCK CASTO: But not going up there, but  
11 we need to find out the status of it.

12 MALE PARTICIPANT: Okay. Will do.

13 TRISH HOLOHAN: They're sure that they can  
14 fly over the site?

15 CHUCK CASTO: Yes, that's what Jim Trapp's  
16 working on now. They're going to fly from Tokyo up.  
17 The FERMAC is going to fly from Tokyo up to the site.

18 TRISH HOLOHAN: Okay.

19 CHUCK CASTO: And, then, they're going to  
20 download that information. They actually have to come  
21 here. They can't -- or somewhere -- they can't pump  
22 it through from the aircraft or something. I don't  
23 understand it, but whenever they get it downloaded off  
24 the laptop, or whatever it is, and assess the data,  
25 they have promised to get it to us as soon as they

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1 can.

2 TRISH HOLOHAN: Okay. And AREVA has  
3 offered up boron and monitors. They're flying those  
4 over.

5 CHUCK CASTO: Okay. That's great. Okay.

6 MALE PARTICIPANT: Is there any field data  
7 available for dose rates? I know that there has been  
8 remote monitoring and there's some fixed monitoring  
9 sites.

10 TRISH HOLOHAN: Well, we have the  
11 information from the JAIF. Now are you familiar with  
12 that organization? Is it similar to the HPS?

13 MALE PARTICIPANT: It's the executive --

14 MALE PARTICIPANT: I think I understand  
15 what you're talking about. (Inaudible).

16 You know, we received several reports from  
17 IAEA with the six monitoring positions on the leeward  
18 side of the reactor. That's not what you're -- is  
19 that what you're talking about?

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: Yes, I haven't seen any  
22 additional reports over the last 24 hours.

23 TRISH HOLOHAN: That was from the IAEA,  
24 though? Because we got --

25 MALE PARTICIPANT: Well, the original

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1 report that I saw was from the IAEA. Which one are  
2 you talking about?

3 TRISH HOLOHAN: I was talking about the  
4 JAIF, the Japanese Atomic --

5 MALE PARTICIPANT: Industrial Forum?

6 TRISH HOLOHAN: -- yes, Industrial Forum.

7 MALE PARTICIPANT: Yes.

8 TRISH HOLOHAN: And I didn't know if that  
9 was equivalent to the Health Physics Society or what.  
10 So, we don't know whether or not that's valid data.

11 MALE PARTICIPANT: Well, we're here on the  
12 ground. If we hear something, we'll let you know.  
13 We'll collect data and get it to you. Okay?

14 TRISH HOLOHAN: Okay.

15 MALE PARTICIPANT: Great. Thanks.

16 CHUCK CASTO: Okay. We'll call in as soon  
17 as we know something. I've been trying to call in  
18 every hour, you know, once an hour.

19 MALE PARTICIPANT: All right, Chuck.  
20 Thanks. We'll be here.

21 (Laughter.)

22 CHUCK CASTO: Yes, I know. You guys have  
23 been there forever.

24 MALE PARTICIPANT: Yes, but --

25 MALE PARTICIPANT: GO2HOO@NRC.GOV, is that

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1 where to get the data if I find it?

2 MALE PARTICIPANT: HOO.HOC@NRC.GOV.

3 MALE PARTICIPANT: Thank you.

4 CHUCK CASTO: Okay. We'll talk to you in  
5 an hour or so.

6 MALE PARTICIPANT: Okay. Thanks again.

7 CHUCK CASTO: All right. Thank you.

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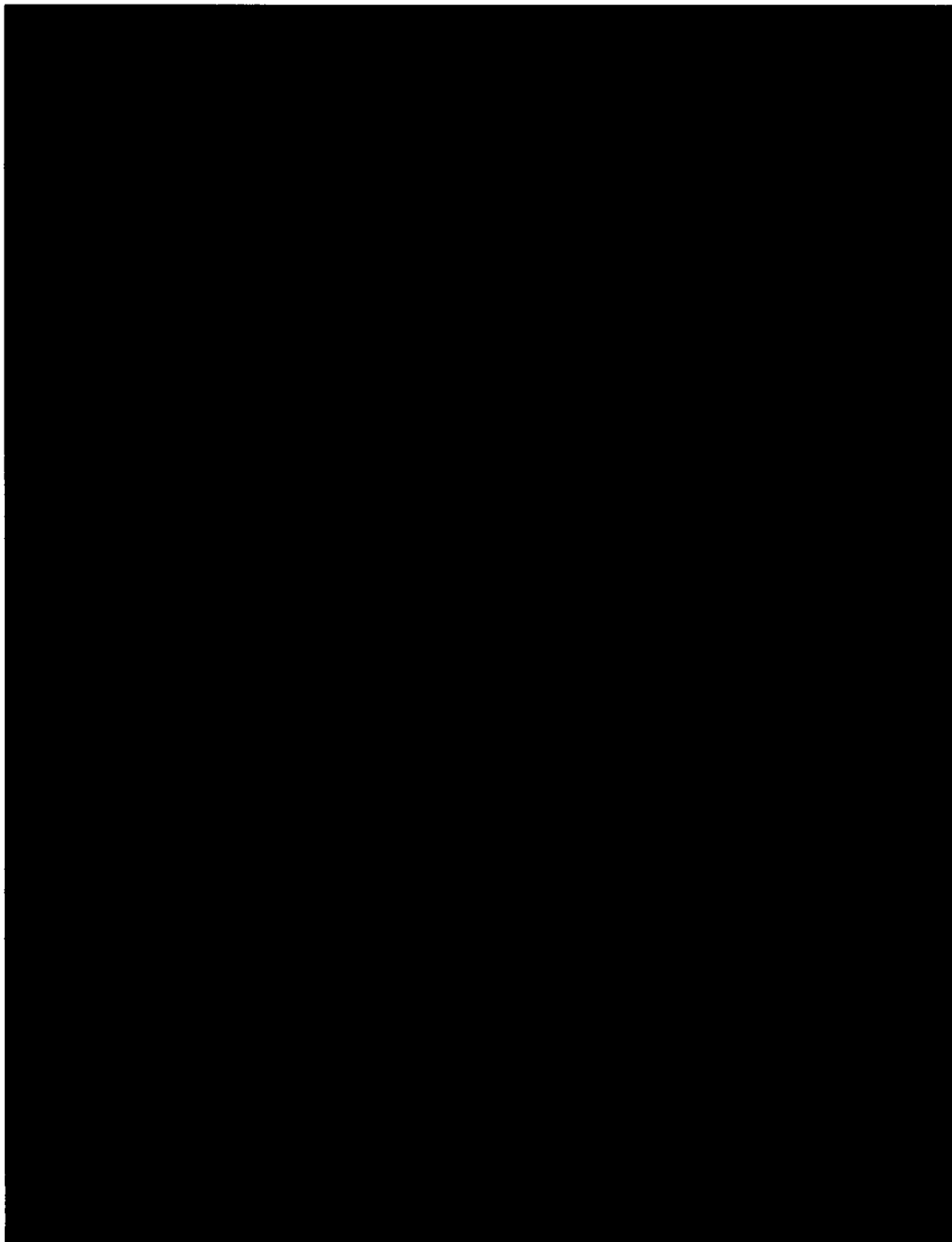
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the  
Headquarters Operations Officer adding Chuck Casto to  
the ET bridge.

BRUCE: Go ahead, Chuck.

CHUCK CASTO: Hey, Bruce, Chuck.



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1 BILL: I've got Bechtel (phonetic) on the  
2 line. We're connecting them up with USAID, and we're  
3 going to hook these two groups together --

4 CHUCK CASTO: Hey, Bill?

5 BILL: Yes?

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22 BILL: No, I understand. Thank you.

23 CHUCK CASTO: I said we talked to DoD.  
24 Mueller is pissed. He's got pumps and he wants to get  
25 them up there. He's got real-live equipment at an air

1 base here in Japan. Okay?

2 So, you guys get on the phone with DoD and  
3 figure out where this equipment is.

4 BILL: Okay.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is Headquarters  
Ops Officer. Josh Batkin with the Chairman coming up  
on the bridge.

MALE PARTICIPANT: Hello?

MALE PARTICIPANT: Good evening.

MALE PARTICIPANT: Hold for Buchanan,  
please.

MALE PARTICIPANT: Hello?

BRUCE: Yes, sir, this is Bruce Boger  
(phonetic) on the ET.

MALE PARTICIPANT: Okay. Thanks.

MALE PARTICIPANT: Hello?

BRUCE: Yes, sir.

MALE PARTICIPANT: How are you?

BRUCE: Just fine. Bruce Boger.

MALE PARTICIPANT: How are you, Bruce? Is  
this your first shift?

BRUCE: It is my first shift. How did you  
know?

MALE PARTICIPANT: I've been keeping  
track.

(Laughter.)

BRUCE: What can we do for you?

NRC CHAIRMAN JACZKO: Can you just give me

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1 kind of a basic rundown? Well, let me run through  
2 what I think the current status is.

3 Units 1, 2, and 3 reactors are continuing  
4 to do seawater injection.

5 BRUCE: Affirmative.

6 NRC CHAIRMAN JACZKO: I'm sorry?

7 BRUCE: That's affirmative.

8 NRC CHAIRMAN JACZKO: Okay. Unit No. 3,  
9 spent-fuel pool has a crack and possible loss of  
10 inventory.

11 BRUCE: We believe that to be true still.

12 NRC CHAIRMAN JACZKO: I'm sorry, I didn't  
13 hear that.

14 BRUCE: Yes, sir.

15 NRC CHAIRMAN JACZKO: Okay. Correct.

16 BRUCE: Correct.

17 NRC CHAIRMAN JACZKO: And spent-fuel pool  
18 No. 4 has no water and possible zirc fire?

19 BRUCE: We know that, we feel that it has  
20 no water and the structural integrity is in question.

21 NRC CHAIRMAN JACZKO: Okay. And likely  
22 zirc interaction or not?

23 BRUCE: We don't know that.

24 NRC CHAIRMAN JACZKO: Okay. Okay. So, we  
25 believe it has no water and may not have structural

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1 integrity, but that's not confirmed?

2 BRUCE: Yes.

3 NRC CHAIRMAN JACZKO: Okay. There were  
4 four points that were circulated earlier. I don't  
5 know if you're familiar with those.

6 BILL: Well, I'm here, Chairman. This is  
7 Bill. I can tell them what they are.

8 NRC CHAIRMAN JACZKO: Okay. I mean, the  
9 bottom line, is there any change to our thinking about  
10 those four points at this point?

11 MALE PARTICIPANT: Well, I think No. 4 is  
12 still valid, but we had previously removed No. 4,  
13 right?

14 NRC CHAIRMAN JACZKO: Well, yes. I mean,  
15 yes, it's still there, but we still believe it's  
16 valid?

17 MALE PARTICIPANT: We still think there's  
18 a reasonable basis for No. 4.

19 NRC CHAIRMAN JACZKO: Okay. Okay. Good.  
20 Thank you. That's what I needed. Okay.

21 BILL: Can I brief one thing while you're  
22 on the phone?

23 NRC CHAIRMAN JACZKO: Yes, please.

24 BILL: I just want to make sure that we're  
25 aligned, and I'm talking to the team now, too. I was

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1 just had another conversation with Chuck Casto.

2 I think the Ops Center No. 1 priority now  
3 ought to be facilitating the movement of materials.

4 SCOTT MORRIS: I have an update.

5 BILL: The support thing, right?

6 MALE PARTICIPANT: Yes.

7 NRC CHAIRMAN JACZKO: Okay.

8 BILL: (Inaudible) status is second to  
9 that. The No. 1 thing is being able to deliver  
10 because we've got the Ambassador talking to the  
11 Government. I mean there's a lot of interactions  
12 going on, and we can't fall flat and say --

13 NRC CHAIRMAN JACZKO: Okay.

14 BILL: And we don't need theoretical  
15 fixes. We need --

16 NRC CHAIRMAN JACZKO: Yes.

17 SCOTT MORRIS: And I can offer you an  
18 update on that, if you would like.

19 So, this is Scott Morris.

20 So, I was on the phone with an individual  
21 from Naval Reactors out of Yakuza, Japan, who had  
22 received the request for the various diesel-driven  
23 pumps and hoses. That individual processed the  
24 request, and equipment was delivered to Yokota, which  
25 I guess is another military facility. As of about six

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1 hours ago, according to this individual, the TEPCO  
2 actually picked up the equipment on a flatbed truck  
3 and drove it away.

4 NRC CHAIRMAN JACZKO: Okay.

5 SCOTT MORRIS: What I know, there's a  
6 couple of things, though. What we don't know is when  
7 or if the material actually received at the site or  
8 some staging area. That part isn't clear.

9 NRC CHAIRMAN JACZKO: Okay.

10 SCOTT MORRIS: Apparently, there were no  
11 Government officials escorting or with that particular  
12 TEPCO pickup.

13 NRC CHAIRMAN JACZKO: Okay. Okay.

14 SCOTT MORRIS: So, our information is  
15 sketchy.

16 NRC CHAIRMAN JACZKO: Okay. I'm sorry to  
17 interrupt you, but at this point that's probably too  
18 detailed for what I need to know at this pint.

19 SCOTT MORRIS: Well, I'm offering it to  
20 you, Chairman, because the Ambassador is obviously  
21 very, it's urgent when it comes to wanting to know the  
22 status of this equipment. So, I wanted to best equip  
23 you with that information.

24 NRC CHAIRMAN JACZKO: Okay.

25 SCOTT MORRIS: The only other thing I was

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1 going to add is that the equipment that was delivered,  
2 or picked up, I should say, did not include like  
3 seawater such strainers and potentially not even  
4 nozzles.

5 NRC CHAIRMAN JACZKO: Okay.

6 SCOTT MORRIS: So, we're on the phone.  
7 We're working with Bechtel, who has engineered a  
8 solution on how to rig all this stuff up and is coming  
9 up with ways to get all the pieces and parts so that  
10 they all arrive at the same place and can be mocked up  
11 and put in use.

12 NRC CHAIRMAN JACZKO: Okay.

13 SCOTT MORRIS: But that last bit, we're  
14 still working on facilitating.

15 NRC CHAIRMAN JACZKO: Okay. So, Bill,  
16 your recommendation was we put basically all our  
17 efforts right now into mobilizing and getting the  
18 equipment?

19 BILL: Yes, it's really an interagency  
20 coordination issue. I mean I don't think we have to  
21 put all our efforts, but we make it clear that it's  
22 the No. 1 priority.

23 NRC CHAIRMAN JACZKO: I concur.

24 BILL: We still have people that can  
25 monitor plant status, but I think the management team

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1 needs to be focused on making sure that facilitation  
2 happens.

3 NRC CHAIRMAN JACZKO: I concur.

4 I'm going to jump out. I've got to go to  
5 do a quick meeting here and, then, I'll probably be in  
6 touch a little bit later this evening.

7 But, again, bottom line: our four points  
8 we still are comfortable with, that we still support  
9 them?

10 MALE PARTICIPANT: Yes.

11 NRC CHAIRMAN JACZKO: Okay. Thank you.  
12 Appreciate it, everybody.

13 MALE PARTICIPANT: Yes, sir.

14 NRC CHAIRMAN JACZKO: I'll talk to you  
15 soon. Bye.

16 MALE PARTICIPANT: Bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Operations Officer. The Commissioners' assistance briefing bridge is populated. We're ready to go when you are.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: We're ready.

BRUCE BOGER: All right. Good evening. This is Bruce Boger. I've got the duty tonight --

MALE PARTICIPANT: One minute, please.

MALE PARTICIPANT: John, go ahead and do the roster playback, so we can make sure we have everyone.

RECORDED VOICE: There are currently 23 participants in your conference. The following people are in the conference:

MALE PARTICIPANT: Headquarters Ops Officer.

MALE PARTICIPANT: Yes, sir?

MIKE SCHULTZ: Mike Schultz, NMSS Duty Officer.

MIKE FRANOVICH: Mike Franovich, Commissioner Ostendorff's office.

(Inaudible).

N.B. BATES (phonetic): N.B. Bates

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1 (phonetic), (inaudible).

2 JOHN LUBINSKI: John Lubinski, NRR.

3 MICHAEL MARSHALL: Michael Marshall,  
4 Chairman Jaczko's office.

5 DON: Don (inaudible), Chairman's office.

6 BILL WATERS: Bill Watters, Commissioner  
7 Magwood's office.

8 REBECCA NEASE: Rebecca Nease, Region 2  
9 Duty Officer.

10 BEN: Ben Reamer (phonetic), Region 3 RDO.

11 BRIAN HARRIS: Brian Harris, OGC.

12 SCOTT MOORE: Scott Moore, FSME.

13 AMY: Amy Peterson (phonetic), Region 3.

14 CHARLES MILLER: Charles Miller, FSME.

15 RON JACKSON: Ron Jackson, Region 1 Duty  
16 Officer.

17 (Inaudible).

18 ANNETTE VIETTI-COOK: Annette Vietti-Cook,  
19 Office of the Secretary.

20 LINDA HOWELL: Linda Howell, Region 4.

21 ROBERT LEWIS: Robert Lewis, FSME.

22 TRIP ROTHSCHILD: Trip Rothschild, Office  
23 of the General Counsel.

24 BEN HART (phonetic): Ben Hart (phonetic),  
25 SECY (phonetic).

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1 TED CASSELMAN (phonetic): Ted Casselman,  
2 (phonetic) Commissioner Svinicki's office.

3 RECORDED VOICE: Roster playback is  
4 complete.

5 BRUCE BOGER: All right. Good evening,  
6 all. This is Bruce Boger. I've got the ET Director's  
7 position this evening.

8 I'm going to give a brief update on the  
9 status of activities in Japan.

10 With respect to Unit 1, I will say that  
11 things are about the same as they were earlier this  
12 afternoon. The Unit 1 still has seawater being  
13 injected and reported stable cooling. Containment  
14 described as functional. Spent-fuel pool level is  
15 unknown.

16 For Unit 2, seawater injection is taking  
17 place. Secondary containment and they cut a hole to  
18 reduce the likelihood of hydrogen gas buildup.  
19 Primary containment intact.

20 Unit 3, seawater being injected. Primary  
21 containment described as functional. Spent-fuel pool  
22 possibly drained. Some evidence of steam.

23 For Unit 4, spent-fuel pool appears to be,  
24 is likely dry with the structural integrity in doubt.

25 Unit 5, spent-fuel pool is reported to be

1 heating up. They have AC power available from a  
2 diesel generator.

3 The same for Unit 6. The spent fuel pool  
4 reported to be heating up, but they have AC power  
5 available through a diesel generator.

6 And the general talking points: the wind  
7 direction is currently from the west with that  
8 direction expected to continue until the weekend, at  
9 which time a front moves through and it may change.

10 People continue to provide support. We've  
11 been in contact with Chuck Casto and the team there.  
12 Their priorities are to continue to get the  
13 information flowing. They've had some interactions  
14 with the Japanese authorities and feel that they're  
15 getting better information at this time.

16 They would acknowledge that they would  
17 like to get closer to the site, so perhaps just a  
18 little closer information, but they're mindful of the  
19 hazards that might present to themselves within the  
20 radiation levels to get to the site EOC.

21 They would acknowledge, also, that the  
22 licensee or TEPCO is somewhat overwhelmed. People had  
23 left the site earlier, but they have been supplemented  
24 with additional people now. Our understanding is they  
25 had about 50 before and maybe up to about 100 now.

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1 Can I answer any questions for you?

2 Bill Ruan (phonetic) has an additional  
3 comment.

4 MIKE FRANOVICH: Hey, Bruce?

5 BRUCE BOGER: Yes?

6 MIKE FRANOVICH: This is Mike Franovich.  
7 I've got a couple of questions for you, actually.

8 On unit status, Unit 2 says that we have  
9 the containment intact. And I've seen that in several  
10 reports now, but I thought I had heard last night that  
11 TEPCO verified that they had a breach in the toris  
12 (phonetic) itself from back a couple of days earlier.

13 They went back and had verified that. That's what  
14 was being reported out of NISA.

15 And so, I'm wondering about the status on  
16 Unit 2. Have we verified that containment integrity  
17 with the folks on the ground?

18 BRUCE BOGER: Don't believe so.

19 MALE PARTICIPANT: We'll get back to you  
20 on that.

21 Our priority now, frankly, has shifted  
22 from doing status to getting equipment to Fukushima.

23 MIKE FRANOVICH: I recognize that, and I  
24 fully appreciate that. I was in there earlier today,  
25 and I realize what's going on in there.

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1 But I do want to go down this list to make  
2 sure we're getting what seems to be a little bit of  
3 dated information. I want to make sure it's still  
4 correct or still current.

5 On Unit 3, we talked about some doses. At  
6 the site post, 60 MR per hour, is that still current?

7 FEMALE PARTICIPANT: The current  
8 information that we have been able to get and verify,  
9 yes.

10 MIKE FRANOVICH: Okay. Again, at the NISA  
11 press conference last night or yesterday morning their  
12 time, they were talking about a spike which is going  
13 much higher than that, but that they had been coming  
14 down ever since that spike, based on Unit 3 events the  
15 previous day.

16 And I understand the status on Unit 4.

17 For Unit 5, there's a note in here that we  
18 believe the reactor is defueled. And there was an  
19 earlier report that led me to believe that the reactor  
20 was not totally defueled, and another report yesterday  
21 from NISA that the water had dropped about a half a  
22 meter.

23 So, is this correct, that the reactor is  
24 defueled on 5?

25 FEMALE PARTICIPANT: Somebody from the RST

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1 is verifying that.

2 MIKE FRANOVICH: Okay.

3 And, Bill, why don't you go through your  
4 thing, and, then, I'll come back and ask my other  
5 questions?

6 BILL: Okay. As everybody here knows, the  
7 key here is to supply the pumping system that was --  
8 we had kind of a cartoon about what that system looks  
9 like.

10 The steps, of course, is we have to  
11 finalize the list, get the suppliers to take all the  
12 equipment, collect it in a central location, make sure  
13 we've got the engineering done, do a pre-assembly of  
14 the equipment, then move it to the site, assembly it,  
15 and operate it. So, those are the steps that we have  
16 to accomplish.

17 Right now, we know that the equipment  
18 left, that some equipment, namely, five pumps, left an  
19 air base -- and the name of the air base escapes me  
20 right now -- left the air base about six o'clock this  
21 morning local time. It's 196 miles to Fukushima. So,  
22 they've been on the road. I guess it's the Defense  
23 Forces of Japan are delivering that equipment. It is  
24 not the complete list. It's just the pumps. So, the  
25 valves, the strainers, those things are not part of

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1 this list.

2 We have been in contact with Naval  
3 Reactors, who is helping us coordinate this effort.  
4 In fact, they're going to try to locate this, see if  
5 they can locate where this truck is, so we can  
6 actually locate the equipment.

7 Meanwhile, we have the Bechtel Engineering  
8 Company has taken our drawing, taken the equipment  
9 list and is doing the engineering work and the  
10 procurement work to get this stuff to the site. So,  
11 we're working with them to get that now, and they're  
12 working on this project, this problem, as we speak.

13 So, that's kind of where everything stands  
14 right now. So, what maybe an hour ago was a little  
15 chaotic, I think we've got a plan on how to get this  
16 done.

17 The key policy issue that remains is,  
18 passed on from John Monager, is that the Japanese have  
19 asked for installers and operators for this equipment.

20 Now that would be installers and operators of  
21 equipment in, you know, a radiation area and possibly  
22 even a high radiation area. So, we don't have anybody  
23 identified right now that would install and operate  
24 this system.

25 So, that's a problem that we face as we

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1 speak. You know, do we get the military? Do we ask  
2 our military to do it? Can we go back to TEPCO and to  
3 the Japanese and tell them, "We'll install the system  
4 and you operate it."? These things still need to be  
5 worked out. And I would argue that that's something  
6 we need to work out in the near-term.

7 MALE PARTICIPANT: Thank you, Bill.

8 BILL: So, any help that you can give me  
9 in identifying the right people to talk to to get this  
10 problem resolved would be great.

11 MALE PARTICIPANT: Okay.

12 BILL: So, maybe the government liaison  
13 folks, somebody. You know, we need to get this  
14 problem resolved.

15 So, that's kind of where we sit.

16 MALE PARTICIPANT: Okay. So, Bruce,  
17 anything to add?

18 There is some [REDACTED] [REDACTED] [REDACTED]

19 [REDACTED]  
20 [REDACTED]  
21 FEMALE PARTICIPANT: Yes, [REDACTED] [REDACTED] [REDACTED]

22 [REDACTED] We also had a  
23 call from the U.S. Postal Service. We gave them CBC's  
24 (phonetic) EOC information [REDACTED]  
25 [REDACTED]

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1 [REDACTED]  
2 And so, they wanted to know if there was any federal  
3 guidance. We gave them the State information to  
4 contact the State and get somebody out there quickly  
5 [REDACTED]  
6 [REDACTED] So, we gave them  
7 that information.

8 Also, we're getting information from  
9 NARAC, not as rapidly as we would like to, because,  
10 apparently, we sent them information this morning, and  
11 they deleted the emails. So, we resent again this  
12 afternoon. So, we are hoping to get that information  
13 as soon as we can.

14 Also, there's an aerial flyover by DOE  
15 over the sight at nine o'clock, eight o'clock tonight,  
16 yes.

17 MALE PARTICIPANT: Eight o'clock tonight,  
18 nine o'clock tomorrow their time.

19 FEMALE PARTICIPANT: Local time, yes.

20 And that's all the information we have.  
21 But we are still waiting to hear back from NARAC.

22 MALE PARTICIPANT: Thanks, (inaudible).

23 Mark, anything from (inaudible)?

24 MARK: No, we're just getting a lot of  
25 calls and questions regarding the press release that

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1 went out.

2 FEMALE PARTICIPANT: Yes, we developed  
3 Q&As for that press release.

4 (Inaudible.)

5 FEMALE PARTICIPANT: Yes, we did  
6 (inaudible, possibly, "finish them").

7 MALE PARTICIPANT: Bruce, Mike  
8 (inaudible).

9 BRUCE BOGER: Go ahead, Mike.

10 MIKE FRANOVICH: Those calculations that  
11 are posted that are linked to a recent statement don't  
12 seem to make any sense because the dose from a four-  
13 unit reactor release on the spreadsheet or on the PDF  
14 file that is attached is less than from those of a  
15 one-reactor release without any indication of  
16 differences in assumptions. So, it looks like a one-  
17 reactor release is greater than a four-reactor  
18 release. So, it doesn't seem to make any sense.

19 FEMALE PARTICIPANT: Well, we did the  
20 four-reactor release assuming certain assumptions, and  
21 I don't have the press release with me. But we put it  
22 on the press release, the assumptions that we made.  
23 And one was run on the 15th.

24 Do you have the press release?

25 MALE PARTICIPANT: I don't have the

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1 (inaudible).

2 FEMALE PARTICIPANT: Okay. One was done  
3 on the 15th and one was done on the 16th. We did the  
4 one-reactor release on the 15th, knowing the  
5 assumptions that we had then, and the reactor release  
6 that we did on the 16th was with -- we ran it as a  
7 four-reactor, assumed one reactor in the four  
8 reactors, and then, the additional reactor didn't add  
9 anything to it.

10 So, if you need more information, I can go  
11 and get it.

12 MIKE FRANOVICH: I think my point is that  
13 it is confusing to the public because it comes across  
14 as a one-reactor release is more severe than a four-  
15 reactor release.

16 FEMALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: We're getting a lot of  
18 questions, people asking for the raw data. That's the  
19 kind of questions that we're getting.

20 FEMALE PARTICIPANT: Yes, they were based  
21 on system condition estimates for a hypothetical four-  
22 reactor release, but we took into it the assumptions  
23 that not all reactors are releasing at the same time.

24 So, I think we have the answers and the Q&As that  
25 clarify that.

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1 MALE PARTICIPANT: Thanks, Trish.

2 Other questions?

3 MIKE FRANOVICH: This is Mike Franovich  
4 again.

5 I want to go back for a minute to what  
6 Bill was just (inaudible, possibly "saying") on  
7 strategies. At one time, there was some discussion  
8 about, instead of water, using sand for the two units  
9 that appear to have dry pools. Is that still part of  
10 the approach?

11 MALE PARTICIPANT: I know it's still under  
12 discussion whether or not they add sand or water.  
13 There's pros and cons of both. There's a concern, if  
14 you put sand on it, that it will still be hot. So  
15 that, the water would be a good thing to keep going,  
16 just to cool it down.

17 Bill, do you know --

18 BILL: The onsite team, the NRC's onsite  
19 team, okay, has recommended it's water that should go  
20 on these spent-fuel pools.

21 MIKE FRANOVICH: Okay. My next question  
22 is, for Chuck Casto, where are they embedded? I know  
23 they're with the TEPCO folks, or they were this  
24 morning, but where is that located? Is that in Tokyo  
25 or closer in toward the site?

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1 MALE PARTICIPANT: Right now, they're  
2 still in Tokyo.

3 MIKE FRANOVICH: Tokyo? Okay. And we  
4 still have Jim and Tony with NISA?

5 MALE PARTICIPANT: This morning -- they  
6 were together with us just a little while ago on the  
7 phone call, but that's where they were, where Jim and  
8 Tony were.

9 MIKE FRANOVICH: And, then, the last item  
10 here, yesterday the Japanese Government had increased  
11 its limit on worker dose here for these worse  
12 conditions. I had heard they had bumped it up to 25  
13 R. Are they considering raising that again? And part  
14 of this is driven by the strategies that we're  
15 discussing with them. Are we working to that  
16 limitation or is there some more discussion about  
17 perhaps going beyond that limit?

18 MALE PARTICIPANT: Well, the NRC staff is  
19 not on the site, has not approached the site, as we  
20 speak, right?

21 FEMALE PARTICIPANT: Right.

22 MALE PARTICIPANT: And by the way, to call  
23 them embedded with TEPCO is probably not an accurate  
24 statement. They have been talking to TEPCO. But  
25 embedded, my picture -- let's clarify terms here -- my

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1 picture of "embedded" means I put one or two people, I  
2 put them in the middle of the organization and they  
3 work as part of that organization. So, that is not  
4 what's happening.

5 MIKE FRANOVICH: Okay. The dose part that  
6 I'm talking about isn't so much -- I appreciate that.  
7 Yes, they're, I guess, consulting each other --

8 MALE PARTICIPANT: Yes.

9 MIKE FRANOVICH: -- might be a more  
10 gracious way to characterize it.

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FEMALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: Right.

2 MALE PARTICIPANT: As a matter of fact,

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

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]

25 [REDACTED]

5

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1 FEMALE PARTICIPANT: With the Chairman.  
2 We did that earlier tonight.

3 MIKE FRANOVICH: You did? Okay.

4 FEMALE PARTICIPANT: Yes.

5 MIKE FRANOVICH: Got it. Okay, I'll stop  
6 now.

7 TRISH HOLOHAN: We just got in the  
8 additional information -- this is Trish Holohan -- we  
9 just got in the additional information from NARAC that  
10 we've requested. So, we're analyzing it now.

11 We had asked them to do a run beyond 50  
12 miles, and we also requested them to see if they were  
13 doing any runs that involved projections to the West  
14 Coast of the U.S.

15 MALE PARTICIPANT: Other questions?

16 MALE PARTICIPANT: This is (inaudible),  
17 and I have a couple of things. One of them is I heard  
18 on the news that TEPCO said that they were very near  
19 to establishing another power line into the facility.  
20 Do you have any information on that?

21 MALE PARTICIPANT: We've heard that also.  
22 We asked Chuck that specifically earlier today. And  
23 they don't have any additional information on that,  
24 but they were somewhat skeptical whether that would,  
25 how much that would help, because of the condition of

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1 some of the breakers and things like that that might  
2 have to be operated manually, and the ability to get  
3 to them is quite unknown.

4 So, he was leaning more toward the plan of  
5 attack that has been outlined, and that's figure out  
6 another way to get water in there.

7 MALE PARTICIPANT: Okay. Now my next  
8 question is, we had received a report on the last  
9 conference call that there had been five lethal doses.  
10 Do we have any information on possible radiation  
11 fatalities?

12 MALE PARTICIPANT: None in here.

13 MALE PARTICIPANT: Okay, thanks.

14 MALE PARTICIPANT: Okay.

15 MALE PARTICIPANT: Other questions?

16 (No response.)

17 MALE PARTICIPANT: Okay. What I would  
18 like to do is suggest a different time for tomorrow  
19 morning's call. It turns out that we have several  
20 phone calls that line up at eight o'clock in the  
21 morning. So, I'm going to propose a 7:30 call  
22 tomorrow morning and, then, stick with the eight  
23 o'clock tomorrow night. So, please join us at 7:30  
24 tomorrow morning.

25 MALE PARTICIPANT: Works for me.

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1 MALE PARTICIPANT: Okay.  
2 BRUCE BOGER: Okay. Thanks, all.  
3 MALE PARTICIPANT: Thank you, Bruce.  
4 BRUCE BOGER: You're welcome.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: This is the  
3 Headquarters Operations Officer. John Monager is  
4 coming up on the bridge.

5 FEMALE PARTICIPANT: We're ready.

6 JOHN MONAGER: Hey, is this Marty?

7 FEMALE PARTICIPANT: No.

8 BRUCE BOGER: This is Bruce and  
9 (inaudible).

10 JOHN MONAGER: Hey, how you doing?

11 BRUCE BOGER: (Inaudible).

12 JOHN MONAGER: We wanted to give you guys  
13 a heads-up, no action, but a heads-up. Chuck and Tony  
14 now are down at the Conti, which is the equivalent  
15 over here of the White House Situation Room. They  
16 asked them to come down, such that they could show us  
17 a video of the Unit 4 spent-fuel pool. And what they  
18 are going to show us, we believe, is that the spent-  
19 fuel pool has water, has had water, potentially the  
20 entire time.

21 We think the reason they're doing that is  
22 because I guess of maybe statements the NRC has made  
23 or maybe the Chairman's hearing testimony yesterday  
24 saying that Unit 4 the spent-fuel pool was dry.

25 So, Chuck hasn't seen the video yet, but

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1 we wanted to give you guys a heads-up in case there is  
2 any clarifications or corrections we need to do.

3 Did that make sense?

4 MALE PARTICIPANT: [REDACTED] 5

5 [REDACTED]  
6 JOHN MONAGER: Right, right.

7 MALE PARTICIPANT: Well, it is good news.

8 JOHN MONAGER: I mean it's good news that  
9 there's water in there.

10 MALE PARTICIPANT: That's all right. Bad  
11 perspective.

12 JOHN MONAGER: Yes.

13 MALE PARTICIPANT: [REDACTED] 5  
14 [REDACTED]

15 JOHN MONAGER: Right, right.

16 Well, the other thing -- and we've got to  
17 run it down now; well, we've got to run it down back  
18 here -- but I believe the status that has been  
19 reported for the past, you know, 24-48 hours is Unit 1  
20 and 2, the spent-fuel pools are boiling; Units 3 and  
21 4, the spent-fuel pools are going through zirc/water  
22 reaction, you know, essentially, at the bottom.

23 So, I'm not sure where we got that summary  
24 for the four units. I know we were under the belief  
25 that, Unit 4, the wall had been blown out, but

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1 regardless of that, someone else would have had to  
2 tell us about Units 1, 2, and 3.

3 MALE PARTICIPANT: A couple of questions,  
4 John.

5 DAVE MCINTYRE: John, this is Dave  
6 McIntyre.

7 What time are you all going to see that  
8 video?

9 JOHN MONAGER: Chuck is down at the Conti  
10 now. He should be seeing it, you know, anytime now.  
11 I would imagine we would hear back from him within the  
12 hour.

13 DAVE MCINTYRE: Okay, thank you.

14 JOHN MONAGER: Okay.

15 MALE PARTICIPANT: John, there were some  
16 other questions related to whether you guys are still  
17 trying to get to the site EOC.

18 JOHN MONAGER: Yes, there's a meeting this  
19 morning with NISA, which is like the Japanese NRC,  
20 NISA, and we're going to ask, broach, request the  
21 notion of being embedded in the EOC.

22 MALE PARTICIPANT: Okay. And I don't know  
23 if you've figured out where it is yet.

24 JOHN MONAGER: No. We don't know where it  
25 is yet, but we've been asking, or it's one of our

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1 things to be asked.

2 The other meeting we're having this  
3 morning at 10 o'clock our time, which is probably nine  
4 o'clock your guys' time, I just chatted with Steve  
5 Bloom about it. We're going to be meeting with TEPCO  
6 to discuss the spent-fuel pool cooling system, and I'm  
7 going to broach the subject about, as a minimum,  
8 bringing in the RST via teleconference, if not the ET  
9 back there.

10 MALE PARTICIPANT: Right, and the RST is  
11 preparing for that. We got word of that.

12 JOHN MONAGER: Okay.

13 MALE PARTICIPANT: Back to the EOC, I  
14 guess there was a concern related to the levels and  
15 what we would subject our folks to.

16 JOHN MONAGER: Right, right. You know, I  
17 guess my thoughts, we would follow NRC guidelines for  
18 emergency response. You know, I guess, it's what?  
19 I'm not sure if it's --

20 MALE PARTICIPANT: Twenty-five.

21 JOHN MONAGER: -- 25 rem limit or what,  
22 but we would follow -- you know, we have dosimetry out  
23 here. We have KI out here, et cetera.

24 MALE PARTICIPANT: Yes, yes.

25 JOHN MONAGER: So, Tim called. You know,

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1 he gave us a briefing on that yesterday.

2 MALE PARTICIPANT: I don't think the sense  
3 is that we're in the position of making the heroic  
4 efforts.

5 JOHN MONAGER: Right, right.

6 MALE PARTICIPANT: John, it's (inaudible,  
7 possibly "Bill") (inaudible).

8 It sounds like to me it would preclude us  
9 from assembling and operating this equipment.

10 JOHN MONAGER: Oh, oh, so, yes, there was  
11 maybe mixed thoughts there. When you asked the  
12 question, I thought you were thinking the NRC  
13 employees and potentially going up to the EOF or the  
14 EOC exposure versus the federal or the U.S. citizens  
15 or federal government installing and operating that  
16 spent-fuel pool cooling system.

17 MALE PARTICIPANT: That's correct. I mean  
18 that's really the basis for the question.

19 JOHN MONAGER: Yes, yes. Well, I mean,  
20 you know, there's the dose issue, but, even absent the  
21 dose, I mean you have those explosions out there. So,  
22 maybe someone is not getting dosed, but if you're  
23 putting U.S. citizens in the potential for those  
24 explosions, you've got to think about that aspect,  
25 too.

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1 MALE PARTICIPANT: So, when you talked to  
2 TEPCO, did you raise this whole notion of whether --  
3 their need to assemble and operate this equipment?

4 JOHN MONAGER: Yes. We'll definitely  
5 raise it. I think they haven't asked for the  
6 equipment or the personnel support yet. The question  
7 is whether they'll raise it.

8 I guess my question for you guys is, if  
9 they raise the personnel support, would we definitely  
10 say no or what?

11 MALE PARTICIPANT: Well, let us give you a  
12 little more information. We believe some of the  
13 equipment is there.

14 JOHN MONAGER: Right.

15 MALE PARTICIPANT: We believe, well, we  
16 had a report from an air base -- and the air base  
17 name, Yokota Air Base -- people, soldiers from the  
18 Defense Forces of Japan at 0600 picked up five pumps  
19 from that air base.

20 JOHN MONAGER: Right.

21 MALE PARTICIPANT: And are driving them on  
22 the 196 miles to Fukushima.

23 JOHN MONAGER: Right. I'll tell you that  
24 the difficulty is, if those guys show up at the plant,  
25 whether they'll accept it or not. You know, there's

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1 this whole notion out there that they haven't asked  
2 for help yet. They turned down a fire truck because  
3 of some issues already.

4 MALE PARTICIPANT: Yes. That was true.

5 JOHN MONAGER: Yes, yes. All right.



16 JOHN MONAGER: Okay. All right. So,  
17 that's in one of the emails out there?

18 MALE PARTICIPANT: No, I talked to a Major  
19 -- let's see if I can get his name. It's Yokota Air  
20 Base. I talked to a Major on the air base, a Major  
21 Metudac (phonetic). He said that soldiers -- well,  
22 they're really not called "soldiers" -- but personnel  
23 from the Defense Forces of Japan picked up that  
24 equipment, the five pumps, at 0600 today at your time  
25 today and are driving it to Fukushima.

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7 JOHN MONAGER: Right, right.

8 MALE PARTICIPANT: And so, what we're  
9 looking for is we need to find out where they're  
10 taking this equipment, a staging area, so that when we  
11 actually -- we have Bechtel has got our cartoon  
12 drawing. They're engineering -- they have the bill of  
13 lading or the specifications from the air base. So,  
14 Bechtel is engineering the rest of the equipment --

15 JOHN MONAGER: Okay.

16 MALE PARTICIPANT: -- you know, what needs  
17 to be done.

18 We're also in parallel, I think Jim Trapp  
19 is working in parallel to see what other things that  
20 the air base can supply, and we've got these two  
21 different supply streams working to get this stuff up  
22 there.

23 JOHN MONAGER: That's good.

24 MALE PARTICIPANT: But what needs to  
25 happen, then, is we need to know, you know, if

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1 somebody from TEPCO, when you talk to them, where is  
2 this equipment going to be?

3 We are also working with Naval Reactors to  
4 see if they can contact these guys en route, such that  
5 we know where they are going to have this equipment,  
6 the staging area for it.

7 So, if you can help us with that  
8 information, it would be great.

9 JOHN MONAGER: Yes, that will be the 10  
10 o'clock call, the 10 o'clock meeting, which is about  
11 20 minutes from now. We're going to try to pull you  
12 guys into that meeting.

13 FEMALE PARTICIPANT: Okay.

14 MALE PARTICIPANT: Yes. Right. Right.

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25 MALE PARTICIPANT: Right.

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1 JOHN MONAGER: My thought is the stuff  
2 should be pretty basic.

3 MALE PARTICIPANT: Well, here's our plan:  
4 it's going to go to a staging area. The stuff is  
5 going to be assembled. It's at that staging area we  
6 could have Americans, well, just basic, because it is  
7 basic equipment, we could have Americans help to go  
8 assemble it with the -- you know, at the staging area  
9 with the Japanese that are actually going to assemble  
10 it at the site.

11 So, the view is you assemble it. You have  
12 some sort of assemble procedure, right?

13 JOHN MONAGER: Right.

14 MALE PARTICIPANT: The Japanese can write  
15 their own assembly procedure and operating procedure.  
16 You disassemble it. The Japanese then take it. They  
17 take it to the site. They reassemble it and they  
18 operate it.

19 JOHN MONAGER: Yes, that sounds perfect.  
20 That's sounds perfect.

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: So, we have to find out  
23 where the staging area is.

24 JOHN MONAGER: Yes, we're going to find  
25 out the staging area and some of these other issues.

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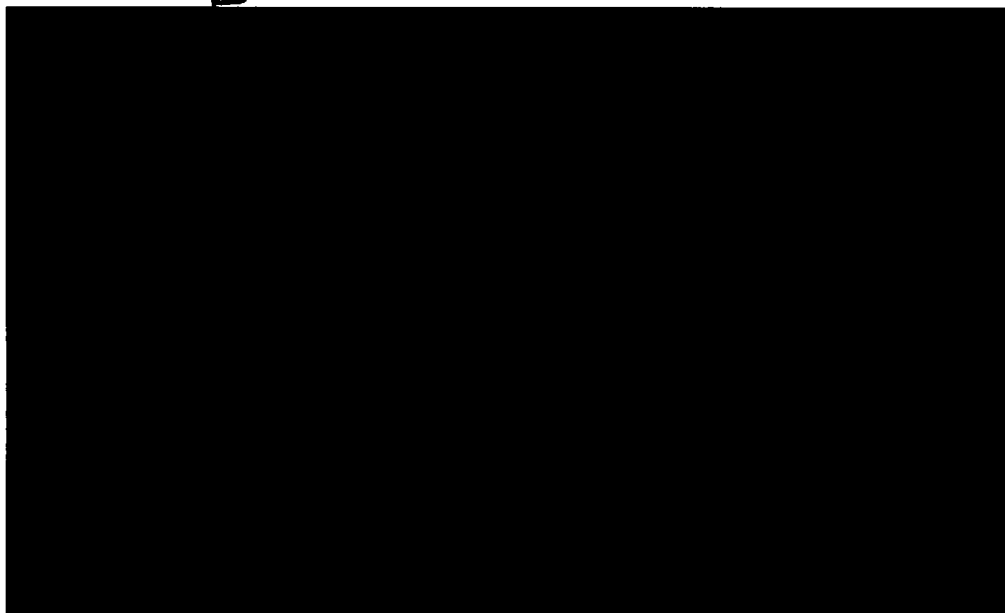
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1 Now, I'm sorry, I'm drawing a blank.

2 Oh, the other issue was the high rad  
3 fields.



13 JOHN MONAGER: I think we're in complete  
14 agreement here.

15 Now the thing that came to my mind was,  
16 for these pumps, you know, you've got multiple pumps,  
17 et cetera. The notion was to have them all ready on  
18 the back of flatbed trucks or trailers, or whatever,  
19 so they can just be driven in and parked. They don't  
20 have the time or the exposure, they can't afford the  
21 exposure to have to put it on a forklift going a  
22 couple miles per hour, you know, a mile down to the  
23 beach. They have to have it on a truck or trailer  
24 with the thing in, unhook it, if it's on a trailer,  
25 and get out.

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1 MALE PARTICIPANT: So, there is a dose-  
2 rate issue when you bring this stuff in?

3 JOHN MONAGER: There is an incredible  
4 dose-rate issue.

5 MALE PARTICIPANT: Okay.

6 JOHN MONAGER: It changes all the time,  
7 but some of the areas they were talking, you know, 20  
8 R per hour.

9 MALE PARTICIPANT: Yes. We've got Bechtel  
10 that's doing the remainder of the engineering on this.

11 JOHN MONAGER: Right.

12 MALE PARTICIPANT: So, we'll make sure  
13 that they understand that this is really a design  
14 requirement.

15 JOHN MONAGER: Yes. The other thing is,  
16 you know, whether you go -- and I'm not a pipe guy --  
17 whether you go with a flexible pipe or a hard pipe,  
18 but if you go with hard pipe and flanges and  
19 connections, you're really going to get whacked on the  
20 dose versus some type of --

21 MALE PARTICIPANT: Yes, I understand that.  
22 You know, like I said, the engineers, the engineers  
23 at Bechtel are working this problem as we speak.

24 JOHN MONAGER: All right. We are going to  
25 the TEPCO meeting and we're really going to try hard

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1 to get you in in 20 minutes.

2 MALE PARTICIPANT: Okay. Thank you.

3 JOHN MONAGER: All right. Thank you.

4 Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: This is Headquarters  
3 Operations Officer. Chuck Casto coming up on the  
4 bridge.

5 FEMALE PARTICIPANT: We're here, Chuck.

6 CHUCK CASTO: Hey, hey, guys.

7 A couple of things. One, a couple of  
8 times this morning, we have gotten busy signals going  
9 into the Ops Center. So, I don't know if we need to  
10 work on more lines or a sneak line or a dedicated line  
11 or something, so that we can get straight through to  
12 you.

13 MALE PARTICIPANT: Okay.

14 CHUCK CASTO: If you guys would work on  
15 that?

16 I reviewed the video. Tony and Brook  
17 (phonetic) and I reviewed the video. You know, it's  
18 not very clear. You're talking about a helicopter  
19 that's trying to do a lot of things at once in a  
20 field. And they tried to scan all four units. You  
21 have to look through a window. And they claim there's  
22 a reflection of water on the Unit 4 spent-fuel pool.  
23 It's not clear. I mean you really can't see anything.  
24 There's something there. You don't know if it's  
25 steel or water. They claim it's a reflection.

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1 Now we do know that it's steaming. Now  
2 there's steam coming out of the side of the building  
3 where the spent-fuel pool is. So, it is steamy as a  
4 minimum.

5 I guess we need to know -- and that was at  
6 five o'clock yesterday.

7 MALE PARTICIPANT: At Unit 4?

8 CHUCK CASTO: So, I guess we need to know,  
9 how long does it take to steam down a spent-fuel pool?

10 FEMALE PARTICIPANT: Five o'clock a.m. or  
11 p.m. yesterday, Chuck? Sorry.

12 CHUCK CASTO: The way I got it was five  
13 o'clock p.m., Japanese Standard Time.

14 FEMALE PARTICIPANT: Okay.

15 CHUCK CASTO: So, it's been about 14 hours  
16 ago or something like that.

17 Clearly, Unit 3 is steaming at a much  
18 greater rate. Their strategy, they are continuing to  
19 try some helicopter drops, which are highly  
20 ineffective, and they're about to, sometime in some  
21 future, they want to get some crowd control tanks and  
22 try to shoot water up there with some crowd control  
23 tanks, which is, you know, in my judgment, that's not  
24 very effective.

25 You've got debris everywhere. The

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1 building has had an explosion. I mean you can hardly  
2 see in there, for the debris. To think that you're  
3 going to shoot a crowd control cannon up in there and  
4 have some effective cooling of a zirc, you know, of a  
5 spent-fuel pool, I don't know if that's going to work.

6 And either way, that's a temporary fix,  
7 and so is a helicopter drop. I mean you can do that  
8 for a while, but you're not going to be able to drop  
9 enough efficiently into that spent-fuel pool. You  
10 know, you can keep doing that, I guess, but that's not  
11 a long-term fix.

12 So, we still need to work on the permanent  
13 fix, something quasi-permanent, whatever you call it,  
14 of a hard pipe system in there from the exterior.

15 MALE PARTICIPANT: Okay. And we're  
16 working that angle. The hard pipe system --

17 CHUCK CASTO: Yes. Yes, I know. There's  
18 parallel paths, and I've got to go see the Minister of  
19 Defense about that and other issues. And, then, we  
20 have an all-Government briefing here at 10:30, and a  
21 bunch of other stuff. There's all kinds of briefings  
22 and meetings and huddles.

23 MALE PARTICIPANT: So, I suppose you're  
24 not available for "60 Minutes" yet?

25 CHUCK CASTO: No.

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1 MALE PARTICIPANT: Hey, Chuck, come on,  
2 Dude. Eliot is fending off the news; you're  
3 (inaudible, possibly "bothered") by name.

4 CHUCK CASTO: I don't care about any of  
5 that.

6 Where was I going? You guys distracted me  
7 on that.

8 MALE PARTICIPANT: No, no, we're  
9 working --

10 CHUCK CASTO: The Chairman, you know, we  
11 need to probably let Bill and the Chairman know that  
12 on yesterday we were going by we thought that, with  
13 the explosion, there was structural damage to the Unit  
14 4 spent-fuel pool. We don't really know if there's  
15 any integrity in that pool or not. The video doesn't  
16 really show if there's integrity.

17 There's some what they claim is  
18 reflection, but we can't tell. We knew there is some  
19 water in there as of five o'clock yesterday because  
20 it's steaming.

21 So, I think the right call is still on  
22 Unit 4. And Unit 3 is steaming even worse. I think

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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1 [REDACTED] 5  
2 [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 MALE PARTICIPANT: You don't have a copy  
9 of that video, do you?

10 CHUCK CASTO: They claim that it's a  
11 special video file that takes a special video player  
12 and all this stuff, software, and the file's too large  
13 to give to us. Imagine that.

14 MALE PARTICIPANT: Yes.

15 CHUCK CASTO: Look, they're not going to  
16 let us have that video. You know, the next thing you  
17 know, that thing gets out. You know, they're not  
18 interested in sharing that thing with us right now.

19 MALE PARTICIPANT: No, no, I was just  
20 asking to complete.

21 CHUCK CASTO: Yes. I mean that was a good  
22 question. We asked that, and it was asked in the  
23 meeting, and they said no. So, we do what we can do.  
24 They say, "Hey, if you look" [REDACTED] right? --

25 [REDACTED] Yes.

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1 CHUCK CASTO: [REDACTED] is from DOE, [REDACTED]  
2 [REDACTED] [REDACTED] [REDACTED] He was standing there  
3 with me, and he looked at it.

4 What's your assessment of it?

5 [REDACTED] I mean it's just a split-second shot  
6 as the helicopter is flying by.

7 CHUCK CASTO: Yes.

8 [REDACTED] I'm not the expert on the facility  
9 design that the NRC folks are here, but I couldn't  
10 tell a thing.

11 BILL: Do we know it's the Unit 4 spent-  
12 fuel pool? Are we certain that that's the case?

13 CHUCK CASTO: Well, that's a good  
14 question, Bill. Because the guy that was showing us  
15 the video from Conti, from the Government, said,  
16 "TEPCO told us this is where the spent-fuel pool is."  
17 So, we don't even know that that's the damned spent-  
18 fuel pool that we was looking at.

19 NRC CHAIRMAN JACZKO: Chuck, Chuck --

20 CHUCK CASTO: All we can tell is some feet  
21 away, some feet away, there was steam coming out of  
22 the building. And they said, "Well, yeah, that's not  
23 right where we think the spent-fuel pool is, but the  
24 wind's blowing really hard today and the wind's  
25 blowing the steam away from the spent-fuel pool."

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1 NRC CHAIRMAN JACZKO: Chuck?

2 CHUCK CASTO: So, we really don't know  
3 what the hell we looked at.

4 MALE PARTICIPANT: Chuck, I think the  
5 Chairman's trying to join the bridge.

6 NRC CHAIRMAN JACZKO: Chuck?

7 CHUCK CASTO: You've got --

8 NRC CHAIRMAN JACZKO: Chuck?

9 CHUCK CASTO: -- a building that's had an  
10 explosion and has debris everywhere, and you're trying  
11 to look at it with a helicopter that's flying by in  
12 split-seconds. You can't tell anything in there.

13 You know, they claim there's a glimmer of  
14 a reflection, but, you know, it's steaming. Unit 3 is  
15 steaming even harder.

16 NRC CHAIRMAN JACZKO: Chuck?

17 CHUCK CASTO: They're methods that -- I'm  
18 sorry, Mr. Chairman.

19 NRC CHAIRMAN JACZKO: Chuck, again, just  
20 can you tell me the source of your belief that there  
21 is no water in the No. (sic) fuel pool?

22 CHUCK CASTO: Well, that's what we were  
23 just talking about. Yesterday they showed us  
24 snapshots, and it looked like to our team members that  
25 there was not a structural integrity in the spent-fuel

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1 pool for Unit 4.

2 NRC CHAIRMAN JACZKO: And again, they are  
3 the --

4 CHUCK CASTO: I'm sorry. TEPCO and Conti,  
5 the Japanese Government showed us snapshots, and it  
6 looked, after the explosion, and it looked like the  
7 pool had lost structural integrity of the snapshots.  
8 Those were outer walls of the building. Today they're  
9 saying, well, the pool doesn't have an outer wall, is  
10 not associated with the outer wall, so they could  
11 still be intact.

12 However, they flew a helicopter by the  
13 four units, and it's really inconclusive as you look  
14 at the video, which they showed us, but won't share it  
15 with us, for whatever reasons. And they say, "Look,  
16 there it looks like a reflection in there." And we  
17 said, "Well, is that the spent-fuel pool?" And the  
18 guy says, "Where that's where they tell us the spent-  
19 fuel pool is, and we think that's a water reflection."

20 Off to the side about 15 or 20 feet, I  
21 would guess, is steam coming out of the building. So,  
22 you would assume that that's the spent-fuel pool with  
23 some amount of water in it, left in it. But that was  
24 14 hours ago.

25 NRC CHAIRMAN JACZKO: Uh-hum. So, do you

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1 have any change in your view of the condition of the  
2 pool, of water in the pool?

3 CHUCK CASTO: I would say, with steam,  
4 there is some water in the pool. It may not be empty.  
5 There is some water in the pool, but that was 14  
6 hours ago.

7 NRC CHAIRMAN JACZKO: Okay.

8 CHUCK CASTO: So, we don't know. You  
9 know, there was some amount of water in it, but we  
10 don't know how much water was in it because it's  
11 steaming, but 14 hours ago, today we can't tell you  
12 how much water is in that pool.

13 NRC CHAIRMAN JACZKO: So, do you think  
14 there's water in the pool right now?

15 CHUCK CASTO: That's what I was asking the  
16 Reactor Safety Team. Tell me how long it would take  
17 to steam-down the pool, you know, but there's a lot  
18 you don't know. You don't know the steaming rate, how  
19 much water is in there. There's a lot.

20 You know, you could assume that, let's say  
21 it's at the top at the fuel. How long would it take  
22 to steam-down to the bottom of the fuel? And how many  
23 hours do you have there?

24 Their recovery methods are to try, again,  
25 which they've, I think, failed once, to drop water

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1 from a helicopter. The other is that they're trying  
2 to clear the road, so that they can bring in some  
3 crowd control tanks, you know, like you see in a riot,  
4 these crowd controls. In our opinion, those are  
5 highly-inefficient methods of trying to get water in a  
6 spent-fuel pool, especially in a building that's had  
7 an explosion and has damage everywhere. And we are  
8 not even sure that that pump has enough head to pump  
9 up to the top of that building. So, you know, that's  
10 a good try. You should do it maybe, but not an  
11 effective or a long-term solution.

12 NRC CHAIRMAN JACZKO: So, at this point,  
13 you no longer believe that the pool is dry? Is that  
14 what I'm hearing?

15 CHUCK CASTO: I would say, as of five  
16 o'clock yesterday, the pool had some water in it.

17 NRC CHAIRMAN JACZKO: Okay. Now I've said  
18 publicly the pool is dry.

19 CHUCK CASTO: Yes, I know that.

20 NRC CHAIRMAN JACZKO: Do you think that  
21 that's inaccurate?

22 CHUCK CASTO: We can -- it's so  
23 inconclusive, we really can't tell, either way. I  
24 mean --

25 NRC CHAIRMAN JACZKO: Well, so it's

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1 inaccurate for me to say it's dry? Is that what  
2 you're saying? It's okay if that's the case; just  
3 tell me.

4 CHUCK CASTO: I would say it's probably  
5 inaccurate to say it's dry.

6 NRC CHAIRMAN JACZKO: Okay.

7 CHUCK CASTO: It appears today, with the  
8 video, that they had had some water in it at five  
9 o'clock yesterday or it wouldn't be steaming.

10 NRC CHAIRMAN JACZKO: Okay. Okay. Okay.  
11 Okay.

12 Anything else?

13 Did we get Marty?

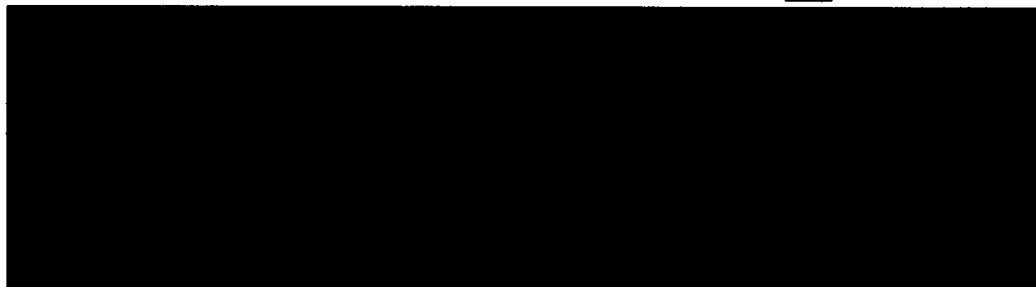
14 MALE PARTICIPANT: Marty's here, yes.

15 NRC CHAIRMAN JACZKO: Marty, did you want  
16 to say something on the call?

17 MARTY VIRGILIO: No, but I agree with you.  
18 We have one dose limit that doesn't discriminate  
19 between age or gender.

20 NRC CHAIRMAN JACZKO: Okay.

21 MARTY VIRGILIO: That said, [REDACTED] [REDACTED] [REDACTED]



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[REDACTED]

5

NRC CHAIRMAN JACZKO: Well, okay. Good.  
So, we're still comfortable -- well, tell me which of  
the four points we're still comfortable with.

CHUCK CASTO: Marty, are you going to  
answer that or --

1 MARTY VIRGILIO: Yes.

2 CHUCK CASTO: I think here we're good with  
3 all of them.

4 NRC CHAIRMAN JACZKO: Okay.

5 MARTY VIRGILIO: I'm still good with No.  
6 1.

7 NRC CHAIRMAN JACZKO: Okay. But we're not  
8 necessarily good with the statement that the pool is  
9 dry?

10 MARTY VIRGILIO: Well, that's not, you  
11 know, our four points don't speak to the pool being  
12 dry.

13 NRC CHAIRMAN JACZKO: Right, right. No, I  
14 know, but they speak to my credibility. That's the  
15 problem.

16 MARTY VIRGILIO: Yes, but think about  
17 where that statement came from. It came from TEPCO to  
18 John Monager yesterday.

19 NRC CHAIRMAN JACZKO: Okay, that's the  
20 source of it?

21 MARTY VIRGILIO: Yes.

22 NRC CHAIRMAN JACZKO: TEPCO said the pool  
23 was dry?

24 MARTY VIRGILIO: That's what he told John  
25 Monager yesterday, and they asked John, given a dry

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1 pool, what are the four or five things, what things  
2 could we do to control the radiation release?

3 NRC CHAIRMAN JACZKO: Okay.

4 CHUCK CASTO: And I don't think that's the  
5 only one. I think, to Jim Trapp, they told him the  
6 same thing.

7 NRC CHAIRMAN JACZKO: Okay.

8 CHUCK CASTO: Now today they're saying,  
9 "Well, we were just postulating that it would go dry."

10 NRC CHAIRMAN JACZKO: Okay.

11 MARTY VIRGILIO: I mean that was pretty  
12 clear with Monager; they had told him it was dry and  
13 we needed some actions. What actions would you take  
14 if you had lost the integrity of the pool?

15 NRC CHAIRMAN JACZKO: Okay. That's fine.

16 Okay.

17 MARTY VIRGILIO: So, TEPCO and the  
18 Government are now changing their position. That's  
19 great.

20 NRC CHAIRMAN JACZKO: Yes.

21 MARTY VIRGILIO: You know, I am hopeful,  
22 I'd like to see a better situation than we had  
23 yesterday.

24 NRC CHAIRMAN JACZKO: Yes, yes. Okay.

25 Okay.

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1 MALE PARTICIPANT: Notwithstanding we're  
2 also recording dose rates in rems per hour in the  
3 vicinity. So, at a minimum, there's at least a  
4 significant amount of fuel that's exposed.

5 NRC CHAIRMAN JACZKO: Yes.

6 MARTY VIRGILIO: Right. The last I saw  
7 was 30 rem between Building 3 and 4. I don't know  
8 where that number came from.

9 MALE PARTICIPANT: That's right. That's  
10 from uncovered fuel.

11 MARTY VIRGILIO: Right.

12 NRC CHAIRMAN JACZKO: Okay. And that,  
13 where is that dose measurement coming from?

14 MARTY VIRGILIO: What I read was between  
15 Building 3 and 4.

16 NRC CHAIRMAN JACZKO: Oh, I mean the  
17 source of the information.

18 MARTY VIRGILIO: Right, that's the  
19 question. How did we get that information? It came  
20 from the field team somewhere.

21 FEMALE PARTICIPANT: But that's the  
22 (inaudible).

23 MARTY VIRGILIO: No, because we didn't  
24 have that (inaudible, possibly "talk") yesterday.

25 MALE PARTICIPANT: Did either Jim or Tony

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1 provide that information?

2 FEMALE PARTICIPANT: I'd have to go back  
3 and look. We ran (inaudible) 40 rems (inaudible) in  
4 Unit 4.

5 FEMALE PARTICIPANT: I heard those numbers  
6 last night, too.

7 MALE PARTICIPANT: Was that reported from  
8 the field?

9 FEMALE PARTICIPANT: It was (inaudible)  
10 Japanese website, JAIF --

11 FEMALE PARTICIPANT: No, but we heard it  
12 last night. It was reported over. But I can't  
13 remember the folks, and (inaudible).

14 (Inaudible).

15 MALE PARTICIPANT: Yes, he heard that,  
16 too. (Inaudible).

17 MALE PARTICIPANT: Mr. Chairman, what else  
18 can we provide you?

19 NRC CHAIRMAN JACZKO: So, again, are we  
20 still comfortable with the four statements?

21 CHUCK CASTO: We are here in Japan.

22 NRC CHAIRMAN JACZKO: Okay. But we have  
23 -- so, the source of the information about the pool  
24 was directly from TEPCO?

25 MARTY VIRGILIO: Right, to John Monager.

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1 NRC CHAIRMAN JACZKO: Okay. So, it was  
2 directly from TEPCO to John Monager. Maybe it's  
3 right, maybe it's wrong, but what is the likelihood,  
4 you think, that we have a full pool at this point?

5 CHUCK CASTO: It's highly unlikely with  
6 the steam that's boiling off of it.

7 NRC CHAIRMAN JACZKO: Okay. And you have  
8 indications of steam?

9 CHUCK CASTO: Yes, it's on the [REDACTED]  
10 [REDACTED] the steam.

11 NRC CHAIRMAN JACZKO: Okay.

12 CHUCK CASTO: Unit 3 is steaming more than  
13 Unit 4.

14 NRC CHAIRMAN JACZKO: Okay.

15 CHUCK CASTO: So, their focus is on Unit  
16 3 --

17 NRC CHAIRMAN JACZKO: Okay.

18 CHUCK CASTO: -- quite heavily.

19 MARTY VIRGILIO: But recent [REDACTED]  
20 Chairman, at the meeting you were just at --

21 NRC CHAIRMAN JACZKO: Yes.

22 MARTY VIRGILIO: -- [REDACTED]

23 NRC CHAIRMAN JACZKO: Yes.

24 MARTY VIRGILIO: And those [REDACTED]  
25 [REDACTED]

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[REDACTED]

NRC CHAIRMAN JACZKO: Chuck, is it  
possible that they have, [REDACTED]

[REDACTED]

NRC CHAIRMAN JACZKO: Okay.

MARTY VIRGILIO: Information to you,  
Chairman, at the meeting --

NRC CHAIRMAN JACZKO: Marty, I'm not on a  
classified line.

MARTY VIRGILIO: Right. I understand.

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1 NRC CHAIRMAN JACZKO: Okay. Well, thanks.

2 So, again, we're still comfortable with the points?

3 MARTY VIRGILIO: Yes.

4 NRC CHAIRMAN JACZKO: Okay. But we may  
5 have some question about the amount of water in spent-  
6 fuel pool No. 4?

7 CHUCK CASTO: Right.

8 NRC CHAIRMAN JACZKO: Okay. Okay. Does  
9 that uncertainty change any of our views about the  
10 recommendations?

11 MARTY VIRGILIO: No, not the 50 miles.

12 NRC CHAIRMAN JACZKO: Okay. But the  
13 fourth, the Point No. 4? Marty, you know what the No.  
14 4 point is?

15 MARTY VIRGILIO: Yes. Yes, I'm looking at  
16 it, and, yes, I would say yes, based on -- and again,  
17 this is based not necessarily on radioactive dose  
18 alone.

19 NRC CHAIRMAN JACZKO: Okay. So, you're  
20 saying you're still comfortable with No. 4?

21 MARTY VIRGILIO: Yes.

22 NRC CHAIRMAN JACZKO: Okay. Okay.

23 Thanks.

24 Okay. Thanks, everybody.

25 ELIOT: Mr. Chairman, Eliot.

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1 NRC CHAIRMAN JACZKO: Bye.

2 ELIOT: Mr. Chairman?

3 NRC CHAIRMAN JACZKO: Yes?

4 ELIOT: I'm not hearing anything to  
5 suggest we should be rolling back tonight, correct?

6 NRC CHAIRMAN JACZKO: Yes. Yes, that's  
7 correct.

8 ELIOT: Thank you.

9 NRC CHAIRMAN JACZKO: Anything else you  
10 wanted to add?

11 ELIOT: No, no.

12 NRC CHAIRMAN JACZKO: I mean, Chuck, let  
13 me ask you that. Do you think I need to roll back any  
14 of the statements that I made?

15 CHUCK CASTO: I don't, I don't think so.  
16 You know, we've gone over it. It may not have been  
17 dry, but it certainly wasn't full. With the steam on  
18 it, it's inconclusive of where the water level is on  
19 Unit 4 --

20 NRC CHAIRMAN JACZKO: Okay.

21 CHUCK CASTO: -- I think is the best --

22 NRC CHAIRMAN JACZKO: Okay.

23 CHUCK CASTO: Or on Unit 3, certainly on  
24 Unit 3.

25 NRC CHAIRMAN JACZKO: Okay.

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1 CHUCK CASTO: And without mitigating  
2 actions, without adding water to that spent-fuel pool,  
3 it's, you know --

4 NRC CHAIRMAN JACZKO: It will be dry?

5 CHUCK CASTO: -- you lose water.

6 NRC CHAIRMAN JACZKO: Yes. Okay. Okay.

7 Thanks.

8 Bye.

9 CHUCK CASTO: Bruce?

10 BRUCE BOGER: Yes, Chuck?

11 CHUCK CASTO: What else do we need to --

12 BRUCE BOGER: I think where we were headed  
13 a little while ago -- Bill, don't go away -- yes,  
14 we're still trying to figure out how to get the hard  
15 piping and the rest of the stuff necessary to  
16 establish a pumping system.

17 CHUCK CASTO: Right.

18 BRUCE BOGER: We heard the request. We're  
19 working pretty aggressively, and trying to work our  
20 way through some of our -- you know, (inaudible) some  
21 bureaucratic-type things that we might have to  
22 encounter. Bill advises me we've got a couple of  
23 paths going, but we're pushing hard to get that stuff  
24 out there.

25 CHUCK CASTO: That's great, and I know

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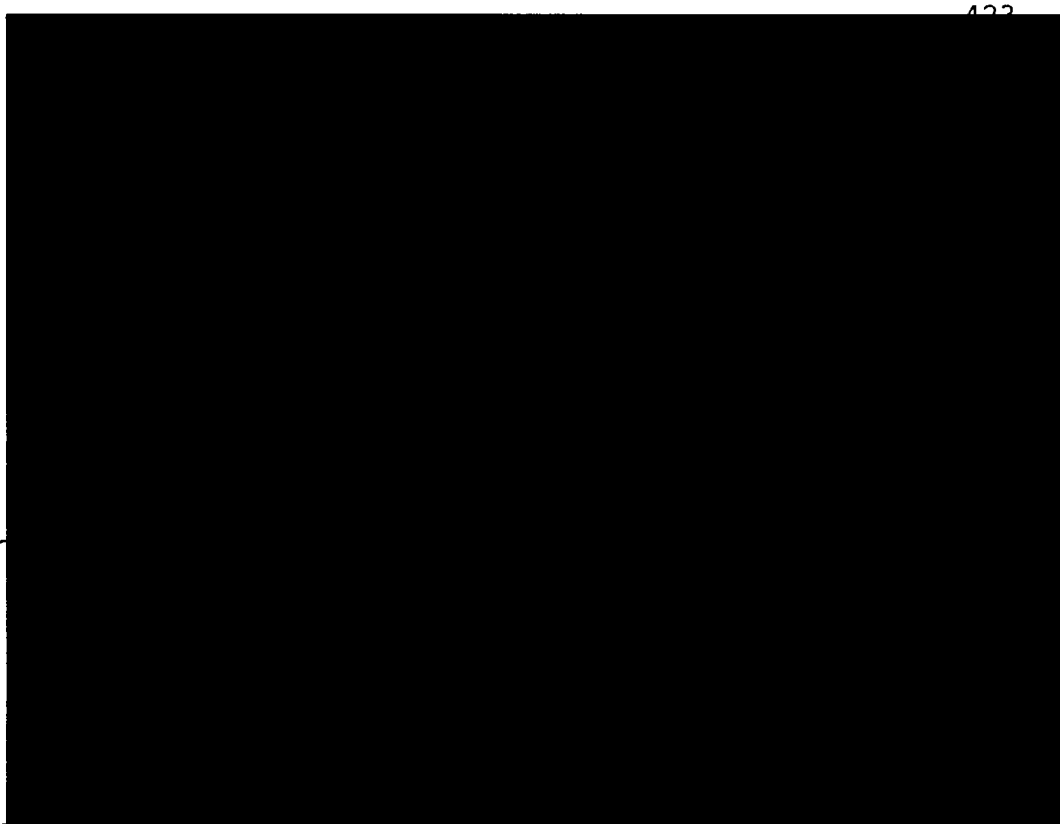
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And I know we all, you know, we want to follow through with that and make sure that happens. If we've told the world we can do it and -- oh, I've got to go to a meeting with the Ambassador and them, I forgot, at 10:30 here, in two minutes.

So, I know you all are working on it. We want to come through on that after committing to it to the Prime Minister.

MALE PARTICIPANT: Yes. Well, we may get to the point where we are going to need  there to sign off on a procurement for Bechtel.

6

CHUCK CASTO: Okay. We'll get whomever you need to sign off on whatever it is.

MALE PARTICIPANT: We're working to get it

1 to a point where that might happen. So, if you give  
2 him a heads-up along the way, that's --

3 CHUCK CASTO: Who's this, I've got to tell  
4 this to?

5 MALE PARTICIPANT: I'm sorry? [REDACTED]

6 CHUCK CASTO: [REDACTED] [REDACTED] [REDACTED]

7 MALE PARTICIPANT: [REDACTED]

8 CHUCK CASTO: [REDACTED] [REDACTED]

9 FEMALE PARTICIPANT: Head of the DART.

10 CHUCK CASTO: The DART?

11 MALE PARTICIPANT: Yes, he's head of the  
12 DART.

13 CHUCK CASTO: Yes, we can get DART. DART,  
14 we're working well together. We'll get DART. That's  
15 no problem.

16 MALE PARTICIPANT: Okay. That might come  
17 down the pike. Thanks.

18 CHUCK CASTO: All right. Talk to you  
19 soon.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Operations Officer. Chuck Casto coming up on the bridge.

FEMALE PARTICIPANT: We're here.

CHUCK CASTO: Hey, hey, guys, Chuck.

FEMALE PARTICIPANT: Hey, Chuck.

CHUCK CASTO: I've got to get to another meeting, but I just wanted to tell you that Tony took

For me, I'm evermore convinced that there's nothing there. There's major damage to that building. And I just have to stake my career on it. But I don't see that there's any structural integrity there at all.

You know, there was steam last night at five o'clock when the helicopter went by, steam or smoke. Who knows? It might have been a fire inside the building. You can't tell.

FEMALE PARTICIPANT: Unit 4, correct?

CHUCK CASTO: Do what?

FEMALE PARTICIPANT: Unit 4?

CHUCK CASTO: Yes, Unit 4.

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1 FEMALE PARTICIPANT: Okay.

2 CHUCK CASTO: And the [REDACTED]

3 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

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]

25 [REDACTED] So, I feel as



1 confident in this stuff as you can to stick with the  
2 Chairman's statement.

3 MALE PARTICIPANT: Yes. Now what we also  
4 heard, that the Japanese were talking about  
5 helicopter-lifted buckets and, also, a riot cannon,  
6 you know, a water-fired riot cannon.

7 CHUCK CASTO: Right. That's what I told  
8 you earlier, yes.

9 MALE PARTICIPANT: Yes, in order to  
10 provide some additional water.

11 FEMALE PARTICIPANT: You can see the  
12 helicopters on TV.

13 MALE PARTICIPANT: Yes, they've got  
14 pumping now on the -- yes.

15 CHUCK CASTO: Yes, I haven't seen the TV  
16 in days.

17 But, okay, I've got to get to this other  
18 meeting, but --

19 MALE PARTICIPANT: Anything you need from  
20 us?

21 CHUCK CASTO: No, we're good, I think. We  
22 just saw the military again, and they have got pumps.

23 FEMALE PARTICIPANT: Yes, nine pumps were  
24 dropped off.

25 CHUCK CASTO: Yes, they've got pumps

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1 headed on the way. So, DoD's moving equipment.

2 FEMALE PARTICIPANT: Okay. Great.

3 CHUCK CASTO: Okay.

4 FEMALE PARTICIPANT: That's what we've got  
5 as our No. 1 priority now, is to get equipment over  
6 there.

7 CHUCK CASTO: Get equipment, that's a  
8 priority.

9 All right, guys. Hey, thanks for all the  
10 work. You guys are doing a great job.

11 FEMALE PARTICIPANT: All right, Chuck, go  
12 to your other meeting. We'll talk to you when you get  
13 done.

14 CHUCK CASTO: Thanks. Bye.

15 FEMALE PARTICIPANT: Bye.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Ops Officer. Chairman Jaczko is coming up on the bridge.


NRC CHAIRMAN JACZKO: Yes. Hello. Hello.

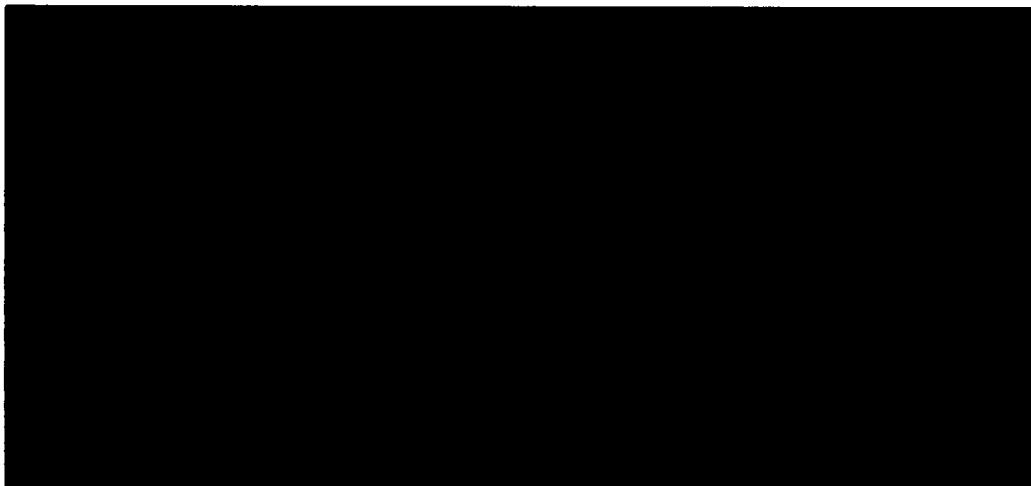
MALE PARTICIPANT: Yes, Mr. Chairman, we're here.

FEMALE PARTICIPANT: We're here.

NRC CHAIRMAN JACZKO: Hi. Do we know what the status is? We were doing some MACCS runs on kind of a worst-case scenario to see what the West Coast impacts would be. Do we know the status of those results?

MALE PARTICIPANT: Let us get the PMP.

FEMALE PARTICIPANT: Chairman, in the meanwhile, while we're waiting for the PMP, we wanted to let you know we just heard from Chuck Casto, and based on some information he just received 



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1 [REDACTED]  
2 NRC CHAIRMAN JACZKO: Okay. Okay. So  
3 that, we have other confirmation that there's no  
4 water?

5 FEMALE PARTICIPANT: Yes.

6 NRC CHAIRMAN JACZKO: Okay.

7 MALE PARTICIPANT: Mr. Chairman, they  
8 haven't gotten the report back from NARAC on the runs  
9 they were doing on the West Coast implications.

10 NRC CHAIRMAN JACZKO: Okay. I thought we  
11 were running our own independent runs.

12 VONNA ORDAZ: We can't do that beyond 50  
13 miles.

14 MALE PARTICIPANT: Fifty miles is, I  
15 think, the limits of our tools, Vonna is right.

16 NRC CHAIRMAN JACZKO: I understood, I  
17 talked to Jennifer Uhle earlier in the day, and she  
18 said we were going to run some MACCS codes of our own,  
19 independent from NARAC.

20 MALE PARTICIPANT: Out of Research.

21 MALE PARTICIPANT: Okay, out of Research.

22 NRC CHAIRMAN JACZKO: Yes, out of  
23 Research.

24 MALE PARTICIPANT: Okay, we'll check.

25 FEMALE PARTICIPANT: And, then, our

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1 understanding, also, is that they were on a variety of  
2 priorities, and we may not be at the top of that list.

3 NRC CHAIRMAN JACZKO: Yes, that's fine.  
4 But we were going to do the MACCS runs. Research was  
5 going to do that.

6 FEMALE PARTICIPANT: Okay. We can check.

7 NRC CHAIRMAN JACZKO: Is she available or  
8 --

9 FEMALE PARTICIPANT: She's not in the  
10 room, but we can --

11 MALE PARTICIPANT: I haven't seen her in  
12 the Center.

13 MALE PARTICIPANT: Yes, we'll call her.

14 MALE PARTICIPANT: Yes, we can call her,  
15 but I don't think --

16 NRC CHAIRMAN JACZKO: So, right now, we're  
17 back to feeling confident that the pool dry is an  
18 accurate statement?

19 MALE PARTICIPANT: Yes, based on the  
20 information we just got from Chuck, it's validating  
21 where we've been all day.

22 NRC CHAIRMAN JACZKO: Okay. Okay.

23 Hey, if you get information on the MACCS,  
24 can you just give me a call? I'm going to head home,  
25 and just give me a ring about that.

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1 MALE PARTICIPANT: Okay. We'll track down  
2 Jennifer and --

3 NRC CHAIRMAN JACZKO: Okay. Thanks.  
4 Thanks.

5 FEMALE PARTICIPANT: Thank you.

6 NRC CHAIRMAN JACZKO: Bye.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Naval Reactors is on  
3 the line?

4 MALE PARTICIPANT: Yes, Naval Reactors is  
5 on the line. Go ahead.

6 MARTY VIRGILIO: This is Marty Virgilio.  
7 I was looking for Steve Trautman.

8 MR. BURROWS (phonetic): Yes, Mr. Trautman  
9 is not in the ECC right now. This is Mr. Burrows  
10 (phonetic). I'm acting for him in the ECC.

11 MR. ROBERTS: Okay. Mr. Burrows, this is  
12 Mr. Roberts. I'm going to hang up from the bridge.  
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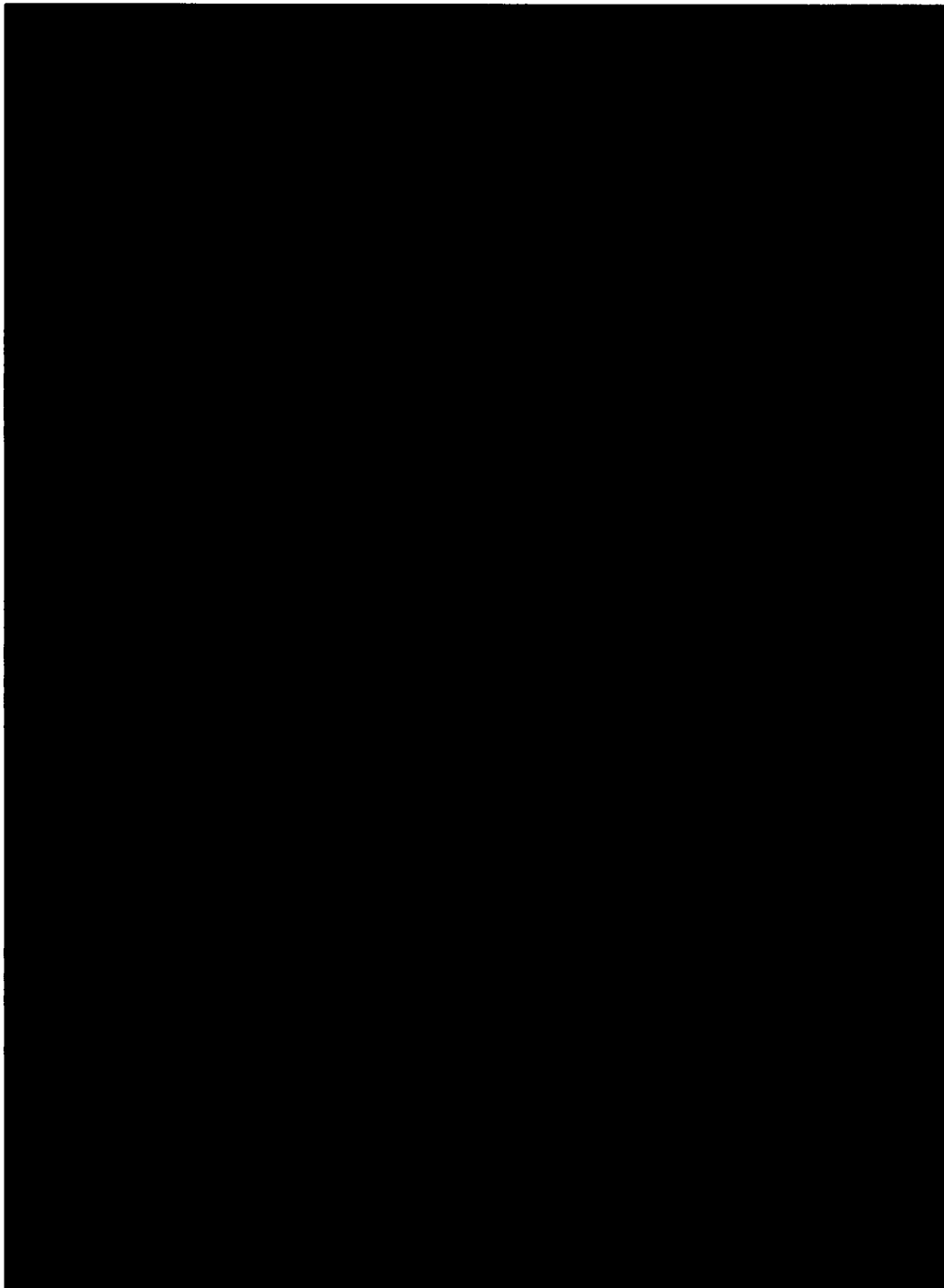
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I have Tom Roberts here with me, and I guess we're hearing that Admiral Donald wanted to talk to the Chairman to get some clarification.



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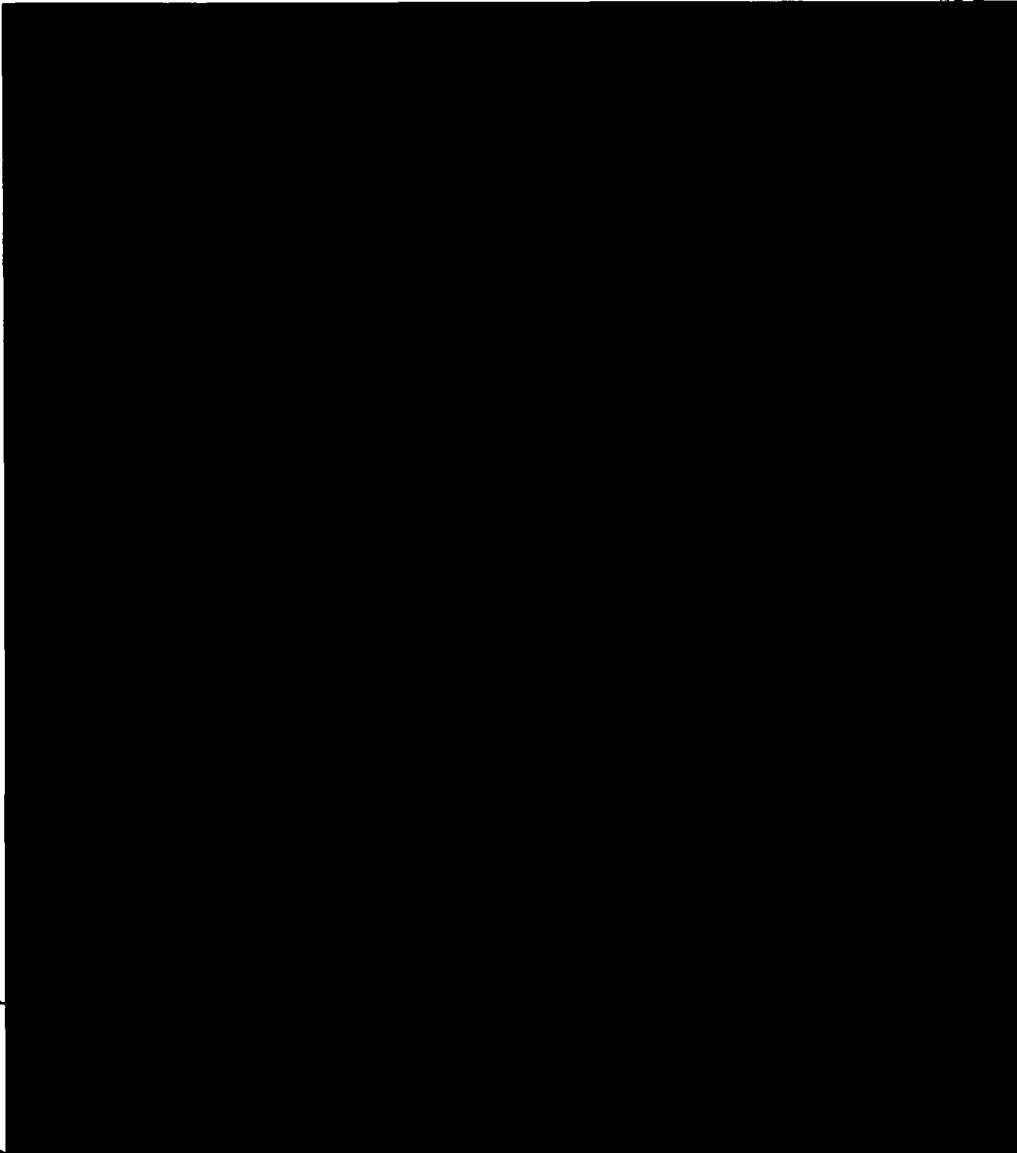
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MALE PARTICIPANT: Right. And so, are you plugged into that, to advise on whether it makes sense radiologically to --

MALE PARTICIPANT: Yes. No, I think it's more than radiological issues --

MALE PARTICIPANT: Uh-hum.

MALE PARTICIPANT: -- that the Ambassador has under consideration right now.

You know, our position is that it is

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MALE PARTICIPANT: Right. This is --

MALE PARTICIPANT: (Inaudible) --

MALE PARTICIPANT: This is not something

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1 we've calculated or we've recommended. We're  
2 responding to the Ambassador's request at this point.

3 MALE PARTICIPANT: Okay. Let me ask the  
4 question, isn't there an ALARA consideration here at  
5 some level? We calculate that if, in fact, the  
6 assumptions made relative to your 50-mile PEG  
7 calculation come to pass, that you would get like 1 to  
8 2 rem total effective dose equivalent out to 150 to  
9 200 miles. And wouldn't it make sense, if we're  
10 talking now voluntary departure, wouldn't it make  
11 sense to recommend voluntary departure in the name of  
12 avoiding that level of population dose?

13 MALE PARTICIPANT: Do you want my personal  
14 opinion?

15 MALE PARTICIPANT: Sure.

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MALE PARTICIPANT: Right.

MALE PARTICIPANT: [REDACTED]

[REDACTED] That's my own personal view. And

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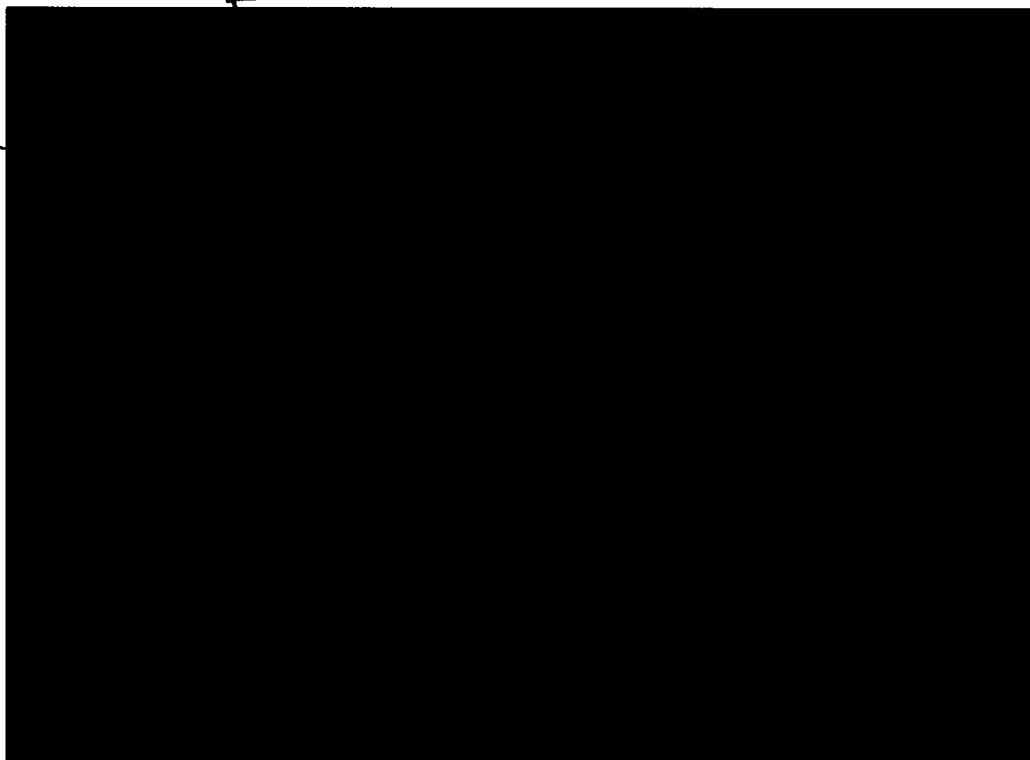
1 radiation is just one factor.

2 MALE PARTICIPANT: Right. So, but what we  
3 are charged with advising on radiation or you are  
4 charged with advising --

5 MALE PARTICIPANT: And that's in our  
6 protective action to up to 50 miles.

7 MALE PARTICIPANT: Right, but why are we  
8 being so rigid in terms of doing the right thing? The  
9 right thing is an ALARA thing here, in addition to  
10 strict interpretation of PEG.

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22 MALE PARTICIPANT: If you went to a  
23 (inaudible, possible "law") --

24 MALE PARTICIPANT: Yes.

25 MALE PARTICIPANT: -- I suppose, I suppose

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1 you could get there.

2 MALE PARTICIPANT: Yes, so the question  
3 is, how much should the law play into --  
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FEMALE PARTICIPANT: Yes.

MALE PARTICIPANT: And the scope of that,

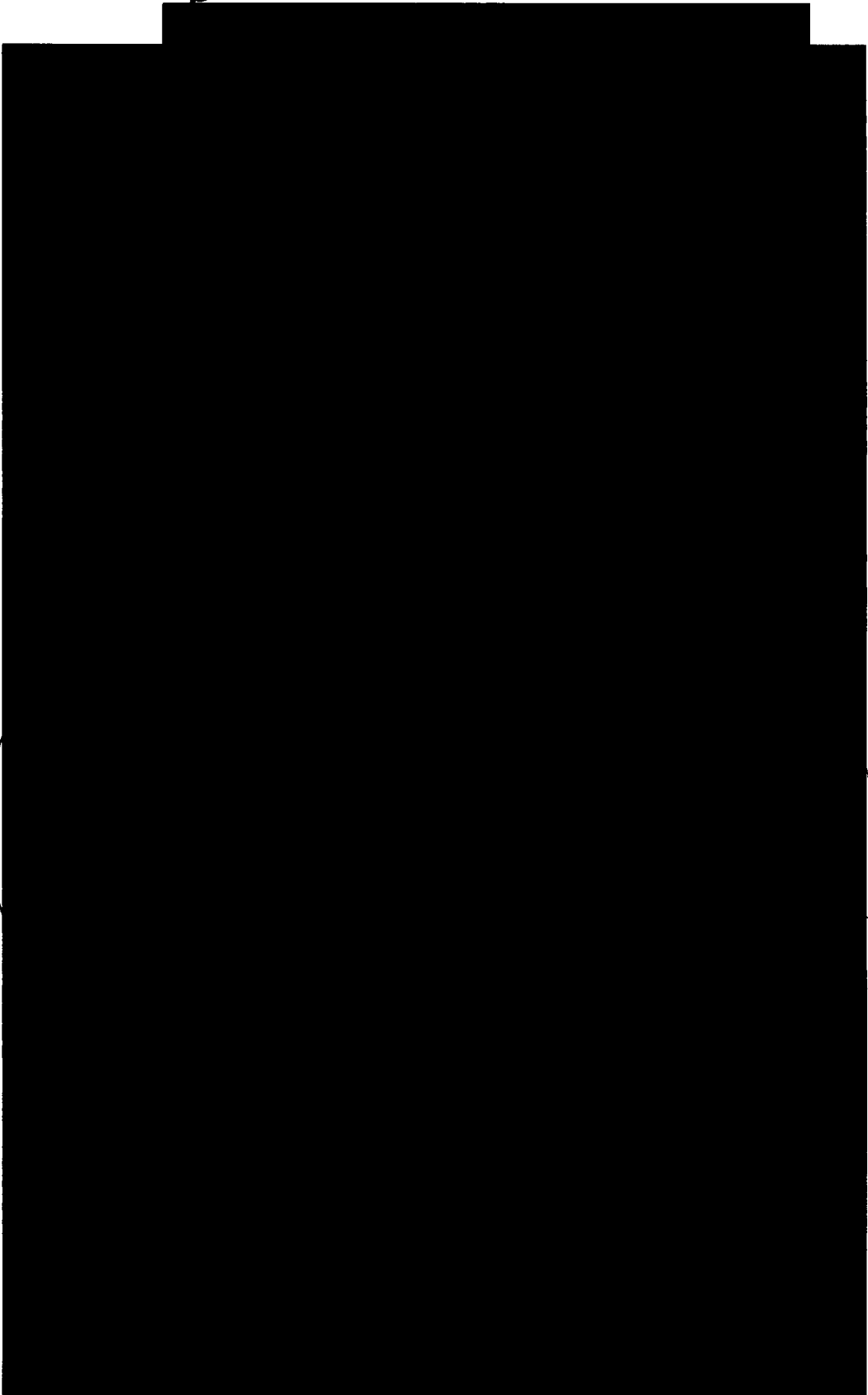
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1 as you understood it from him, was --  
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1 MALE PARTICIPANT: Right. Now, if we were  
2 asked to advise strictly on radiological grounds, you  
3 would or would not take into consideration ALARA?

4 MALE PARTICIPANT: Yes, I would, but I  
5 keep coming back to I think that, if you're out beyond  
6 the 50-mile zone, there are other factors --

7 MALE PARTICIPANT: That take in --

8 MALE PARTICIPANT: -- that bear on this  
9 decision..

10 MALE PARTICIPANT: Okay.

11 VONNA ORDAZ: And other countries have  
12 recognized that as well in releases.

13 MALE PARTICIPANT: In the press releases  
14 -- thanks. Vonna Ordaz is here with me, and she is  
15 saying in the press releases other countries are  
16 acknowledging that the radioactive dose is just one of  
17 many considerations.

18 VONNA ORDAZ: Structural (inaudible) --

19 MALE PARTICIPANT: Right.

20 VONNA ORDAZ: -- transportation,  
21 communications, and other --

22 MALE PARTICIPANT: Right, yes.

23 MALE PARTICIPANT: Okay. So --  
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MALE PARTICIPANT: Okay.

MALE PARTICIPANT: All right.

MALE PARTICIPANT: And if necessary, we'll  
have another conversation.

MALE PARTICIPANT: Thanks. Yes, we're  
here.

MALE PARTICIPANT: Thank you.

MALE PARTICIPANT: Bye-bye.

MALE PARTICIPANT: Bye.

MALE PARTICIPANT: Don't hesitate.

MALE PARTICIPANT: Uh-hum. Bye.

MALE PARTICIPANT: All right.

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1 (CONFERENCE CALL INITIATED)

2 DAN DORMAN: Hi, Josh.

3 JOSH BATKIN: Hello. Who's that?

4 DAN DORMAN: Dan Dorman.

5 MARTY VIRGILIO: And Marty Virgilio.

6 JOSH BATKIN: Hello, gentlemen.

7 DAN DORMAN: Good evening.

8 JOSH BATKIN: I only have two quick  
9 things, if now is a good time. It's not urgent.

10 MARTY VIRGILIO: This is a very good time.

11 JOSH BATKIN: First of all, if anybody is  
12 left from day shift, they kicked some butt today. I  
13 think they worked very hard, but it was a very  
14 important day for a number of reasons, and they did a  
15 great job of producing information that was very  
16 important. So, if you could pass that -- I guess,  
17 Marty, you're still there.

18 MARTY VIRGILIO: Yes.

19 DAN DORMAN: He's got his sleeping bag  
20 rolled out in the corner.

21 JOSH BATKIN: Awesome.

22 (Laughter.)

23 Put him in the corner by the table, so  
24 he'll get some quiet.

25 My other two quick things were the

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1 Chairman, Marty, the Chairman is going to do the eight  
2 o'clock from the White House again. So, the eight  
3 o'clock call tomorrow morning at the White House --

4 MARTY VIRGILIO: Right, right, he will go  
5 to the White House for that.

6 JOSH BATKIN: Right, he will be there for  
7 the Situation Room at the White House.

8 Is there any way that you guys could, so  
9 as to further use all of the wonderful work that will  
10 go on over the night to update the information that we  
11 have, is there any way somebody could get him an  
12 updated book or get me an updated book at the White  
13 House before eight o'clock?

14 MARTY VIRGILIO: Yes, I'm just trying to  
15 think. We could figure that out.

16 JOSH BATKIN: Okay.

17 MARTY VIRGILIO: Where would it be best to  
18 -- you're going to be with him?

19 JOSH BATKIN: Yes, I'll be with him.

20 MARTY VIRGILIO: Okay.

21 JOSH BATKIN: Meet me at the southwest,  
22 not you, Marty, somebody, because you should be  
23 sleeping.

24 MARTY VIRGILIO: I'll still be here.

25 (Laughter.)

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1 JOSH BATKIN: Oh, no. No, you should be  
2 sleepy. Yes, exactly.

3 No. Yes, if somebody could just meet me  
4 at the southwest gate at like 7:45 or something?  
5 They're done with their update? That's enough time on  
6 the normal schedule, right?

7 MALE PARTICIPANT: Yes, I think we target  
8 update in the (inaudible, possibly "go book" or "gold  
9 book") around 6:00.

10 MALE PARTICIPANT: Right, right.

11 MALE PARTICIPANT: So, even if we slip a  
12 half an hour, we should be able to put it somebody's  
13 hand to get it down there.

14 JOSH BATKIN: Okay, great.

15 MALE PARTICIPANT: Does he have --

16 JOSH BATKIN: Yes, he physically has his  
17 right now. I think we have a second one in our  
18 office. So, if you wanted to cannibalize that one,  
19 feel free. Otherwise, you might have to, yes,  
20 depending on the level --

21 MALE PARTICIPANT: We will bite the bullet  
22 and make a new one.

23 JOSH BATKIN: All right. Sorry about  
24 that.

25 MALE PARTICIPANT: That's no problem.

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1 MALE PARTICIPANT: And, Josh, if you can,  
2 encourage him to call in, too, because, I mean,  
3 there's only so much we can put in the book.

4 JOSH BATKIN: Oh, absolutely. Absolutely.

5 MALE PARTICIPANT: Yes, if he could call  
6 us, you know, whenever he's ready --

7 JOSH BATKIN: Okay. Is the 5 or 10  
8 minutes or so on the phone enough, do you think, in  
9 the morning?

10 MALE PARTICIPANT: Ask me in the morning.

11 MALE PARTICIPANT: Yes.

12 (Laughter.)

13 JOSH BATKIN: Okay. All right. Well,  
14 I'll actually --

15 MALE PARTICIPANT: I'll tell, Josh, from  
16 my perspective, this is my fourth shift and this is  
17 the first time I've come in where things are not  
18 radically different from when I left 16 hours earlier.

19 JOSH BATKIN: Yes.

20 MALE PARTICIPANT: I count that as a good  
21 sign.

22 JOSH BATKIN: Yes.

23 MALE PARTICIPANT: But, hopefully, I will  
24 be able to say that again in eight hours.

25 JOSH BATKIN: Yes. It's not that great of

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1 a sign when some folks are saying things were better,  
2 but anyway.

3 MALE PARTICIPANT: Can we have your  
4 BlackBerry, just so that when we send the messenger  
5 down with the book, we can connect with you?

6 JOSH BATKIN: Yes. Can you have my  
7 BlackBerry phone number?

8 MALE PARTICIPANT: Yes.

9 JOSH BATKIN: Oh, yes, just use my  
10 personal cell.

11 MALE PARTICIPANT: Oh, okay.

12 JOSH BATKIN: That's the ringer I always  
13 have on it, [REDACTED].

14 MALE PARTICIPANT: [REDACTED]

15 JOSH BATKIN: Yes, that's the number  
16 that's always on.

17 MALE PARTICIPANT: Okay.

18 JOSH BATKIN: So, my other question was,  
19 did he give any instructions on a high threshold to  
20 reach out to him overnight?

21 MALE PARTICIPANT: No. He and I talked  
22 about that just the last phone call we had.

23 JOSH BATKIN: Okay.

24 MALE PARTICIPANT: And I said, "If we need  
25 you, we'll call you." But, I mean, he was pretty much

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1 saying, you know, he was empowering us to do what we  
2 needed to do and to make sure that was a very high  
3 threshold, is the way I took his remarks.

4 JOSH BATKIN: Good. Great.

5 MALE PARTICIPANT: Don't wake him up  
6 unless we have to.

7 JOSH BATKIN: Thank you. That's great.

8 And, for instance, if that next  
9 announcement is made overnight, that is not, I think,  
10 a reason to call him.

11 MALE PARTICIPANT: Okay. You mean the  
12 President's decision? Yes.

13 JOSH BATKIN: Right. Yes, that's  
14 something there's no action for us on that.

15 MALE PARTICIPANT: Right, right.

16 JOSH BATKIN: I think he's sat through  
17 what we sat through. So, I think he can learn that in  
18 the morning.

19 MALE PARTICIPANT: Yes.

20 JOSH BATKIN: But if there's any incidents  
21 at the plant or anything, well, you know. You know.

22 MALE PARTICIPANT: Yes, I joked with him  
23 and I said I'd try not to wake him up with a phone  
24 call from Admiral Donald, after late last night.

25 (Laughter.)

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1 JOSH BATKIN: Yes, exactly. I know, I got  
2 a call from him at like 6:30. They're like, "What's  
3 this? Shall we all him at home?" I'm like, why?

4 (Laughter.)

5 They said, "Admiral Donald is" -- I said,  
6 "Put him on the bridge." He's like, "No, the Deputy's  
7 already on the bridge." I said, "Okay. Well, then,  
8 wake him up."

9 Okay. I think that's --

10 MALE PARTICIPANT: All right. We've got  
11 your night shift covered.

12 JOSH BATKIN: -- all I had. Okay, great.

13 MALE PARTICIPANT: You get some sleep,  
14 too.

15 JOSH BATKIN: Oh, that was my other point,  
16 that someone delivered the book to him tonight while  
17 he was in the meeting, like 15 or 20 minutes into the  
18 meeting, and he used that information. So, thank you  
19 to -- you know, again, thank you to the folks who  
20 updated it. If you can pass onto the folks that are  
21 working on it tonight that that document, the  
22 information that they're providing to the Chairman is  
23 going for his use at the highest levels of government,  
24 so it is an important and vital and appreciated  
25 product.

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1 MALE PARTICIPANT: We invented it here on  
2 night shift.

3 (Laughter.)

4 JOSH BATKIN: Well, there you go.

5 MALE PARTICIPANT: Remember that.

6 JOSH BATKIN: A night shift product.

7 So, yes, I mean please do pass along the  
8 appreciation to everybody who is going to be working  
9 on it.

10 MALE PARTICIPANT: It's this crew that  
11 invented the whole concept of the (inaudible, possibly  
12 "go book" or "gold book").

13 JOSH BATKIN: Great. That's great.

14 All right, good luck.

15 MALE PARTICIPANT: All right. Talk to you  
16 tomorrow, and have a good night's sleep.

17 JOSH BATKIN: You, too. Thanks.

18 Bye.  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: This is Headquarters  
3 Ops Officer. Chuck Casto coming up on the bridge.

4 CHUCK CASTO: This is Chuck Casto.

5 MALE PARTICIPANT: Hey, Chuck. You have  
6 Marty and Dan and Chris (inaudible).

7 CHUCK CASTO: Hey, guys.

8 MALE PARTICIPANT: Hi, Chuck.

9 MALE PARTICIPANT: Good morning.

10 CHUCK CASTO: I think somebody tried to  
11 get a hold of me. I don't know what the message is.

12 MALE PARTICIPANT: Okay. It wasn't us,  
13 though.

14 CHUCK CASTO: Okay. It was the Ops Center  
15 number that was trying to call me, but that's all  
16 right. I don't know what it was.

17 Hey, we just left, Marty, we just left the  
18 Ministry of Defense. We were talking with the  
19 Minister and the Joint Chief and all their staff.

20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]  
23 [REDACTED]  
24 [REDACTED]  
25 [REDACTED]

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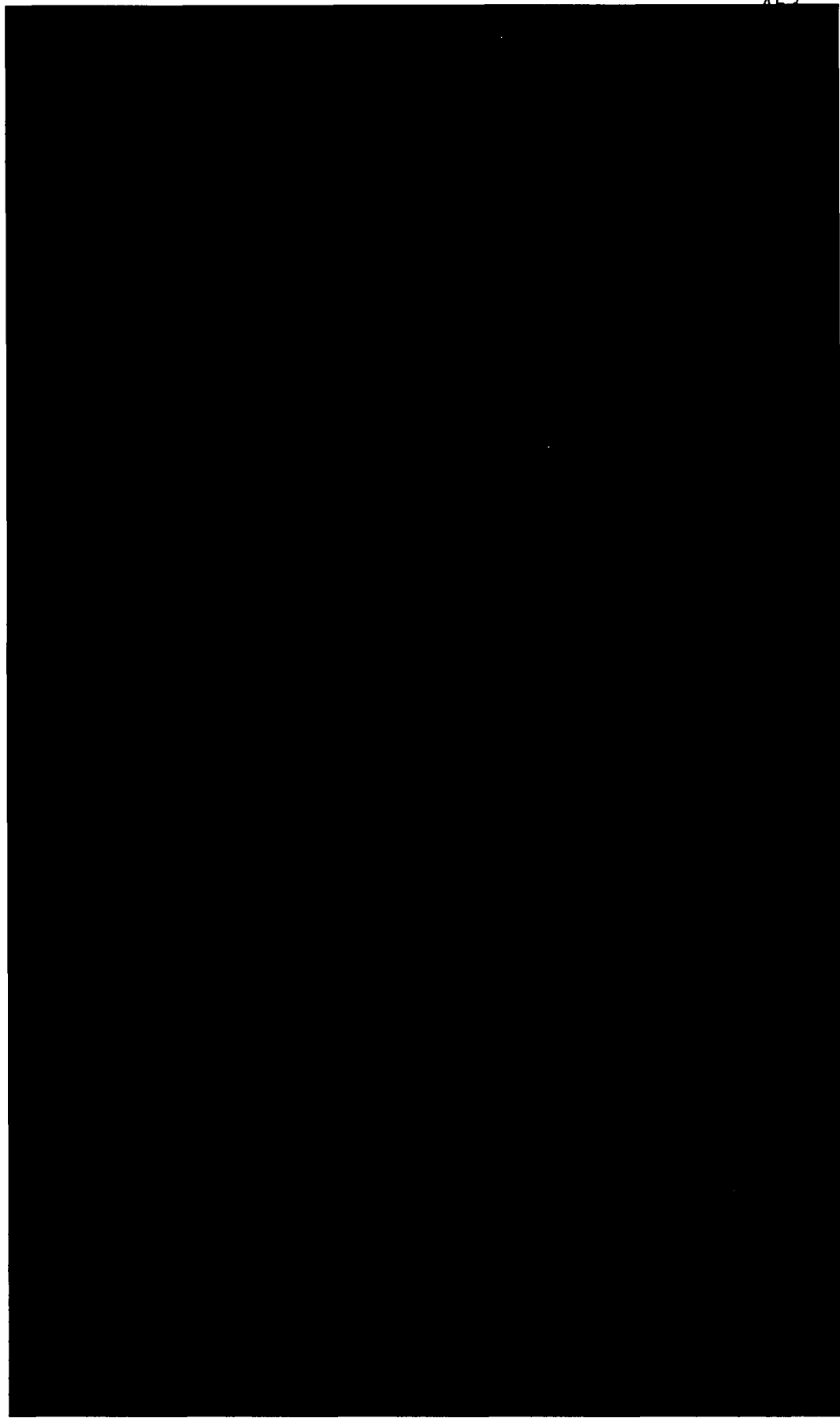
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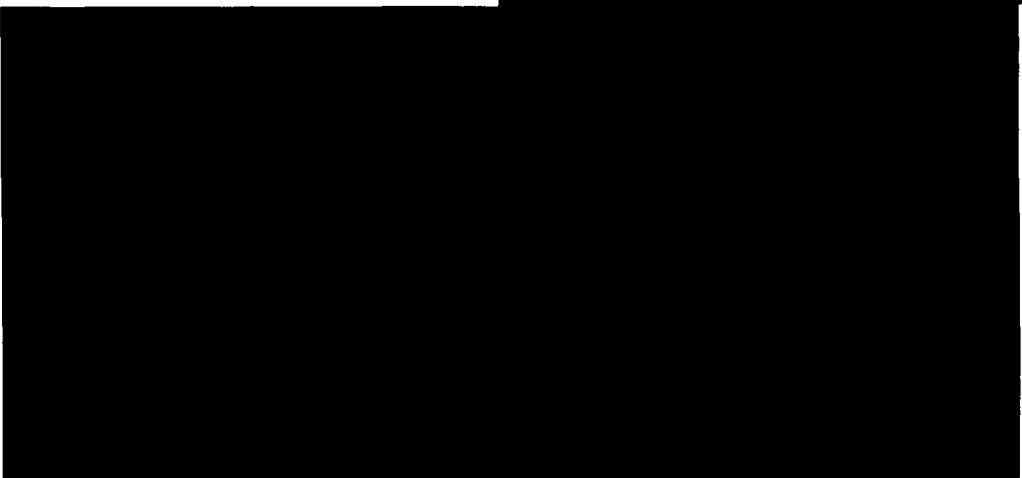
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And by the way, I'm headed from the  
Ministry of Defense over to somewhere to meet with the  
Ambassador.

But they said



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MALE PARTICIPANT: And that sounds great.

It would be helpful, I think, if they're planning some sort of action to like provide additional water supplies, it would be really helpful if we understood really the ground truth on radiation levels in those areas?

CHUCK CASTO: Yes. Right. And they

promised to share their radiation results with us, and we're flying over now. There's flyovers happening with DOE, and we'll get that information. They promised to get us their information. But they also wanted our

[REDACTED]

[REDACTED]

5

And I think that's about it.

CHRIS MILLER: Chuck, it's Miller.

Do you get the sense that they're taking actions to clear the site, so when the pumps and the other (inaudible) equipment come in, that they will be able to get in there? And is somebody doing something about fuel, so that when they get the pumps there, they've got fuel to run the pumps?

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1 CHUCK CASTO: The only thing that they're  
2 -- no, I don't get the sense they're doing any of  
3 that. You know, they're putting all their efforts on  
4 helicopters, and they are going to put in the crowd  
5 hose, the crowd sprayer thing. I forget what that's  
6 called, you know, the riot --

7 MALE PARTICIPANT: Riot control, yes.

8 CHUCK CASTO: Yes, yes. I mean, beyond  
9 that, they're not doing much at all for any kind of a  
10 long-term solution.

11 Finally -- and I'm about to go into a  
12 meeting with the Ambassador -- but, finally, Marty, as  
13 soon as we can get together the team, we can get  
14 everybody assembled, we're going to have a little team  
15 meeting. And, then, we're going to figure out  
16 resources for our team as far as, you know, do we need  
17 help; in what areas? Because everybody is just -- I  
18 can't tell you what a great group of people you've  
19 assembled in getting things done. [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 Nevertheless, there's still just a few of

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1 us, and we're spread thin. And the Japanese, when  
2 they have a meeting, they want everybody.

3 MALE PARTICIPANT: Yes, yes.

4 CHUCK CASTO: Okay, I've got to go.

5 MALE PARTICIPANT: All right.

6 CHUCK CASTO: I've got to go into this  
7 meeting.

8 MALE PARTICIPANT: All right. Well, think  
9 about what skill sets and numbers of people you need.  
10 Let us know.

11 CHUCK CASTO: Okay. I'll talk to you  
12 soon.

13 MALE PARTICIPANT: All right.  
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