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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 MONDAY

7 MARCH 28, 2011

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: This is headquarters  
3 operation officer. Who do I have on the bridge?

4 EC: You've got the EC on the bridge.

5 MALE PARTICIPANT: All right.

6 MALE PARTICIPANT 2: Anybody else?

7 MALE PARTICIPANT: Nope.

8 MALE PARTICIPANT 2: Okay. We're putting  
9 on mute, Steve. (phonetic)

10 MALE PARTICIPANT: All right.

11 MALE PARTICIPANT: Good morning, this is  
12 the NRC. Anybody else on the bridge?

13 (Silence.)

14

15 MALE PARTICIPANT: All right. We'll wait  
16 for you.

17 (Silence.)

18

19 MALE PARTICIPANT: Maybe we're not having  
20 a call.

21 MALE PARTICIPANT 2: Well, I don't know.  
22 This has been moved around so many times that I've  
23 lost the big picture of this. I think the liaison  
24 came, but what I think is the liaison is responsible  
25 for (phonetic) (inaudible).

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1 (Silence.)

2 CHUCK CASTO: Chuck Casto coming up on the  
3 ET bridge.

4 MALE PARTICIPANT: Hey.

5 CHUCK CASTO: Hello.

6 MALE PARTICIPANT: Hey, Chuck.

7 CHUCK CASTO: Good evening, or good  
8 morning.

9 JIM WIGGINS (phonetic): Jim Wiggins.  
10 What can we do for you?

11 CHUCK CASTO: Oh, I was just touching base  
12 from this crazy day. We have a few minutes to touch  
13 base after the chairman's whirlwind tour, and we have  
14 just a few minutes before we go to the 20:00 meeting,  
15 and I thought I would just touch base, and see what I  
16 can do for you guys.

17 JIM WIGGINS: All right. You know much  
18 about this water in the Unit 2 basement, the plate  
19 trench?

20 CHUCK CASTO: No, we don't really know  
21 where it came from. That's one of the things, the  
22 mysteries we're trying to understand.

23 JIM WIGGINS: Yeah.

24 CHUCK CASTO: Oh. You know, I thought  
25 somebody said isotopic analysis, it had to have come

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1 from recent fission, and so it had to come from  
2 primary containment.

3 JIM WIGGINS: A lot of this stuff can add  
4 up, though.

5 CHUCK CASTO: Yeah. Yeah, well, the --

6 JIM WIGGINS: Well, I guess this is Unit  
7 2, so it could have -- they have a containment  
8 failure, probably, so it's leaking in the reactor  
9 building.

10 CHUCK CASTO: Yeah, well they have -- I  
11 think they have water in all four turbine buildings,  
12 highly radioactive water in the basement of all four  
13 turbine buildings.

14 JIM WIGGINS: Well, that's no good  
15 (phonetic).

16 CHUCK CASTO: So that doesn't make sense  
17 either, does it?

18 JIM WIGGINS: No.

19 CHUCK CASTO: But that most radioactive  
20 point I think is Unit 2, the unit -- the one that they  
21 commented on.

22 So we've had a whirlwind day here with the  
23 chairman making the rounds to all of the different  
24 agencies, and we have a few minutes of downtime before  
25 we head to the 20:00 meeting, which will have a cast

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1 of thousands.

2 JIM WIGGINS: That's a cabinet office  
3 crisis management meeting?

4 CHUCK CASTO: Yeah. And Admiral Walsh,  
5 all of them are here as well, so, the ambassador's  
6 going, the chairman's going.

7 JIM WIGGINS: Which admiral is that?

8 CHUCK CASTO: Admiral Walsh. He's -- I  
9 know, one of the seventh -- one of the guys out of  
10 seventh fleet.

11 JIM WIGGINS: Okay.

12 CHUCK CASTO: Four star. So -- and then  
13 of course, Admiral Rodin (phonetic).

14 JIM WIGGINS: Yeah.

15 CHUCK CASTO: Some of the other ones are  
16 here, in force. And we have some more naval reactor's  
17 friends in today.

18 JIM WIGGINS: Yeah. No shortage of brass,  
19 huh?

20 CHUCK CASTO: Yeah. It's more stars than  
21 are up in the sky.

22 JIM WIGGINS: Yeah, there you go. They're  
23 all -- they're all coming.

24 CHUCK CASTO: Well, we provided the  
25 chairman with some talking points for the meeting

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1 tonight, and what else.

2 JIM WIGGINS: Admiral Walsh, the admiral,  
3 he's commander of the US Pacific Fleet.

4 CHUCK CASTO: Yeah.

5 JIM WIGGINS: That's -- yeah.

6 CHUCK CASTO: Seventh Fleet.

7 JIM WIGGINS: The pack (phonetic) fleet.  
8 Another Airedale (phonetic), wire.

9 CHUCK CASTO: Yeah, one of them's an  
10 Airedale. Yeah, one of them's an Airedale.

11 JIM WIGGINS: Everyone they've gotten so  
12 far. I guess there was the -- yeah, I can't find one  
13 that isn't. But, you know, you're in carrier city out  
14 there. They're all going to be flyers.

15 That's the confluence of nukes and flyers.

16 CHUCK CASTO: Yeah. And then we have  
17 General Crowell (phonetic), who's USFJ.

18 JIM WIGGINS: Okay.

19 CHUCK CASTO: We've got Admiral Hayley  
20 (phonetic) who's a nuke and a flyer.

21 JIM WIGGINS: They all are. The flyers  
22 that get command of a nuclear aircraft carrier, they  
23 get nuke -- they go back when they're senior --

24 CHUCK CASTO: Yeah.

25 JIM WIGGINS: -- you know, senior officers

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1 back to nuke who -- through the program. So all these  
2 guys were -- the guys you've been dealing with were  
3 pilots first.

4 CHUCK CASTO: Yeah.

5 JIM WIGGINS: And then they go back and  
6 get nuclear training, then get their command of the  
7 nuclear carrier.

8 CHUCK CASTO: I guess, Jim, the big  
9 picture thing here, and I have to keep it big picture,  
10 I'm not smart enough to figure out all of the details,  
11 but the big picture is, basically, what the chairman  
12 got from them was, they want to continue to feed and  
13 bleed until they construct a long-term decay heat  
14 removal system, and construct some kind of sarcophagus  
15 around the building, and they want to keep feed and  
16 bleed.

17 JIM WIGGINS: Yeah, the they is TEPCO?

18 CHUCK CASTO: Yeah, TEPCO, right.

19 JIM WIGGINS: Yeah, our reactor safety  
20 guys here have been telling is that TEPCO's trying to  
21 meter the amount of water they're adding to try to  
22 limit the release. So they're trying to drive  
23 through, you know, take the narrow lane --

24 CHUCK CASTO: Right.

25 JIM WIGGINS: -- enough water in to take

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1 the heat out, but not put too much to get excess  
2 steaming, whatever that --

3 CHUCK CASTO:

(b)(5)

4 (b)(5)

5 JIM WIGGINS:

(b)(5)

6 (b)(5)

7  
8 CHUCK CASTO: Yeah, I would think so, too.

9 And it may have environmental consequences, but there  
10 are no zero-risk solutions in this.

11 JIM WIGGINS: Right.

12 CHUCK CASTO:

(b)(5)

13 (b)(5)

14  
15 JIM WIGGINS: Well, there's going to be no  
16 zero-release solutions, I think.

17 CHUCK CASTO: And that's the euphemism for  
18 no zero-release. We just said, no zero-risk.

19 JIM WIGGINS: There's not going to be a  
20 zero-release strategy. The idea would be to just try  
21 to get this thing to settle the madness (phonetic), or  
22 not let it get out of hand again.

23 CHUCK CASTO: Right. Because of the  
24 interest of citizens and the instability, you've got  
25 salt in there on the bottom head, corroding, and that

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1 brings more instability into the situation.

2 JIM WIGGINS: Okay.

3 CHUCK CASTO: So our message is, the  
4 preferred solution, we think, is the report that we  
5 sent them, other solutions are less preferred, and we  
6 think less stable, and continue low-level releases.

7 So that's essentially the talking points  
8 for tonight.

9 JIM WIGGINS: Okay. Well, Admiral Walsh  
10 is a doctor. He's got a PhD.

11 CHUCK CASTO: Oh.

12 JIM WIGGINS: Interesting individual.

13 CHUCK CASTO: He's got a lot of  
14 credentials.

15 JIM WIGGINS: Yes, he does.

16 CHUCK CASTO: What's his PhD in?

17 JIM WIGGINS: Master of Arts of Law and  
18 Diplomacy, entered a doctorate program with  
19 distinction, and subsequently received a PhD. It's  
20 hard to tell. He went to -- he got it from Tufts,  
21 though.

22 CHUCK CASTO: He's a smart guy.

23 JIM WIGGINS: In international relations  
24 at Fletcher School of Law and Diplomacy, Tufts.

25 CHUCK CASTO: Yeah, good. Good to have

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1 that.

2 JIM WIGGINS: A smart guy.

3 CHUCK CASTO: Yeah. (b)(6)

4 (b)(6) so does that  
5 count?

6 JIM WIGGINS: Yeah. Yeah. Through the  
7 agency gate (phonetic), you got through. That's all  
8 that counts. Good enough for the agency.

9 CHUCK CASTO: There you go.

10 JIM WIGGINS: Yeah.

11 CHUCK CASTO: I got in under the wire back  
12 in the day when we didn't have --

13 JIM WIGGINS: Back in the day when the  
14 wire was pretty high up, huh?

15 CHUCK CASTO: Yeah. Yeah. So, what's  
16 your thoughts, Jim?

17 JIM WIGGINS: About?

18 CHUCK CASTO: (Inaudible) and bleed, and -  
19 -

20 JIM WIGGINS: I don't know. It seems to  
21 me that if you can put a lot of water in, you'd put a  
22 lot in. I think it would suppress some of the -- you  
23 know, you might drop the temperatures down a bunch,  
24 but --

25 CHUCK CASTO: Like what if that water--

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1 putting that water in, ended up with more water in the  
2 turbine building?

3 JIM WIGGINS: Yeah. That's a very good  
4 point there. Well, I think it's inevitable, right?

5 CHUCK CASTO: That's what my position is.

6 JIM WIGGINS: You put a little bit of  
7 water in over a long period of time, you're still  
8 going to end up -- wherever the bath (phonetic) is,  
9 it's still going to be there.

10 CHUCK CASTO: Right.

11 JIM WIGGINS: Right?

12 CHUCK CASTO: Right.

13 JIM WIGGINS: And that may be a separate  
14 problem, trying to -- you know, the turbine building's  
15 okay. Just don't let it leak into the -- get off the  
16 plant.

17 CHUCK CASTO: Well, that's what's going to  
18 happen. It's going to go down to the ocean.

19 JIM WIGGINS: Yeah.

20 CHUCK CASTO: That's why they don't want  
21 to do that strategy. The other thought is to re-circ  
22 the turbine building back to the primary containment,  
23 re-circ the turbine building floor back to its primary  
24 containment, put it back in there.

25 JIM WIGGINS: I thought they were --

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1 CHUCK CASTO: (Inaudible) coolers.

2 JIM WIGGINS: I thought they were going to  
3 try to put it in the hot well.

4 CHUCK CASTO: Yeah, that only can last so  
5 long with the --

6 JIM WIGGINS: Yeah, base -- yeah, right.

7 CHUCK CASTO: So, you know.

8 JIM WIGGINS: You mean, just try some  
9 large recirculation path, and just keep -- well, no,  
10 you -- as long as you're adding water, you're going to  
11 continue to add volume. It's going to go somewhere.  
12 You can't make it disappear.

13 CHUCK CASTO: But once you close that hole  
14 by recirc-ing it back, you could flood up the CAF and  
15 stop adding.

16 JIM WIGGINS: Oh, all right. I see what  
17 you're saying. You mean --

18 CHUCK CASTO: Basically, you've extended  
19 the containment out through the hot well, out to the  
20 turbine building.

21 JIM WIGGINS: The only thing you have to  
22 factor into your consideration is, once you build up  
23 all that hydrostatic pressure, you're going to  
24 increase the drain-down rate to the turbine building,  
25 and you've got to have sufficient flow rating in your

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1 pump back --

2 CHUCK CASTO: Back, right.

3 JIM WIGGINS: -- to not be --

4 CHUCK CASTO: I mean, one idea, to re-circ  
5 the turbine building water back to the containment.  
6 Filter it and cool it.

7 JIM WIGGINS: Yeah. Well, you might as  
8 well let the RSG (phonetic) people get a whack at  
9 that.

10 CHUCK CASTO: Yeah, that's a tomorrow  
11 thing, or a next --

12 JIM WIGGINS: Yeah, we're not going to try  
13 to (phonetic) engineer it here.

14 CHUCK CASTO: Yeah.

15 JIM WIGGINS: Let them do it. You've got  
16 to think about -- think that through, through the  
17 beginning, or --

18 MALE PARTICIPANT: It sounds like a high-  
19 rad solution, though --

20 CHUCK CASTO: It's high-rad down there  
21 anyhow. And, I mean --

22 JIM WIGGINS: It's high-rad anyhow.

23 MALE PARTICIPANT: Well, I know, but I  
24 mean, just try and set that up and to try to get the  
25 filters to work, and having to change them out if they

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1 clog. I don't know, it doesn't sound --

2 JIM WIGGINS: The only real strategy that  
3 would be helpful is to figure out some way of stopping  
4 this water from accumulating.

5 CHUCK CASTO: Right. If you can figure  
6 out where it's coming from, it's, you know, is it  
7 coming from the reactor building structure, you know,  
8 if the reactor building is full of water, then it's --  
9 you know, the reactor building's probably not leak-  
10 tight, and it's flowing over to the turbine building.

11 JIM WIGGINS: Yeah, through some  
12 penetrations or something.

13 CHUCK CASTO: Right.

14 JIM WIGGINS: Yeah. But it -- you know,  
15 how you explain it, the isotopic content, though.

16 CHUCK CASTO: Yeah, my understanding is,  
17 the isotopic content says it's coming from the reactor  
18 --

19 JIM WIGGINS: Right.

20 CHUCK CASTO: -- because it's recent  
21 fission products.

22 JIM WIGGINS: Yeah. Right. That means --  
23 yeah. So -- oh, well. All right. You're going to go  
24 run your --

25 CHUCK CASTO: Yeah, we've got to get to

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1 our 20:00 meeting.

2 JIM WIGGINS: All right.

3 CHUCK CASTO: You guys have a good day.  
4 We'll talk to you later.

5 JIM WIGGINS: Yeah, we'll see you, Chuck.

6 BILL WATERS (phonetic): Mike, this is  
7 Bill Waters.

8 MIKE: Hey, Bill.

9 BILL WATERS: Unit 1 seems to be, for lack  
10 of a better word, a lot hotter than the other units.

11 MIKE: Yeah.

12 BILL WATERS: What's the rationale?

13 MIKE: We're trying to understand that,  
14 too, Bill. I just got a reading (phonetic) from the  
15 RFP this morning.

16 You know, Unit 1 is listed on our priority  
17 scale as highest priority right now. We understand  
18 that they are giving consideration to additional  
19 venting from Unit 1.

20 Tom (phonetic), do you have any other  
21 thoughts (phonetic) on that?

22 TOM: One of the two units affected by the  
23 salt --

24 MIKE: Right. We're working on that,  
25 Bill.

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1 BILL WATERS: Thanks.

2 ELLIOT (phonetic): It's Elliot. Just on  
3 a news front, the embassy put out the statement about  
4 the chairman being in Japan and having those meetings.  
5 That went out a couple of minutes ago.

6 BILL WATERS: Okay. Thanks, Elliot.

7 Any highlights?

8 Elliot?

9 ELLIOT: That was a question for me?

10 BILL WATERS: Yeah.

11 ELLIOT: If you hang on, I can read you  
12 what it says.

13 BILL WATERS: No, that's okay. I just  
14 thought if there was something we ought to be aware  
15 of, other than (inaudible). We'll pull it (phonetic).

16 ELLIOT: It's, I came, I met, I'm going  
17 home.

18 BILL WATERS: All right. Thanks.

19 Any other questions?

20 TAD KAPPELMAN (phonetic): Mike, this is  
21 Tad Kappelman.

22 BILL WATERS: Hey.

23 TAD KAPPELMAN: You mentioned at the start  
24 that the freshwater injection is contributing to  
25 flooding up the containment. And then it sounded like

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1 you jumped then to the turbine building flooding, and  
2 it sounds like there's a cause and effect there. Is  
3 that the case?

4 BILL WATERS: We don't know if there's a  
5 cause and effect, but there's a suspicion that the  
6 injection may be contributing to the contamination in  
7 the turbine building. And the accumulation of water.

8 TAD KAPPELMAN: Oh. Interesting.

9 BILL WATERS: Yes. And the connection  
10 there remains to be determined.

11 Do you have something on that, Tom?

12 TOM: Well, the containment, the permanent  
13 containment, is believed to be leaking in Unit 2 and  
14 possibly Unit 3, so, that would be the short answer.

15 BILL WATERS: Right.

16 Did you hear that, Tad?

17 TAD KAPPELMAN: Yeah, I did. I guess I'd  
18 have to sit down with a schematic and try to  
19 understand how you would get -- what the communication  
20 pathway would be for the water. So, we don't have to  
21 talk about that here.

22 MIKE: Okay. Next question is, in the  
23 SITREP it said that the comments had been resolved on  
24 the reentry criteria, and that they were -- that EPA  
25 has concurred on those criteria, and now they've been

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1 returned to the Department of State.

2 And then, but in the briefing, you said  
3 that we're still coordinating on an inter-agency  
4 basis. Where are we on that?

5 TAD KAPPELMAN: My understanding is we got  
6 the EPA comments, and we incorporated their comments  
7 in the briefing paper.

8 But Don Cole (phonetic), who's the  
9 oncoming PNT (phonetic) director, was just in here,  
10 and he showed me that he's got a package of those  
11 comments, and the impression that I have is that they  
12 still have some additional resolutions to go.

13 MIKE: Okay. Okay. So I guess it's a  
14 work in progress.

15 TAD KAPPELMAN: That's a good way to  
16 describe it.

17 MIKE: Okay.

18 TAD KAPPELMAN: I don't expect anything  
19 revolutionary to come out of the revisions to those  
20 comments, but, we do want to make certain that they  
21 come up with unified guidance.

22 MIKE: Yes, exactly. That's critical.  
23 But the other question is, I guess, who has lead on  
24 this? Because it sounds like it's being fed through  
25 EPA and State and so forth.

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1 TAD KAPPELMAN: Yeah, right now, the lead  
2 is in the White House, so we're feeding our input to  
3 the national security staff, and then they coordinate  
4 it among the agencies. The primary users of that  
5 guidance at this point are State and DOD.

6 MIKE: Okay. Understood. And then you  
7 mentioned that the PMT is working to answer questions  
8 from the Japanese Embassy regarding the 50-mile  
9 evacuation recommendation?

10 TAD KAPPELMAN: Right.

11 MIKE: I was wondering if we could get a  
12 copy of the questions and answers so we're informed  
13 about that, please.

14 TAD KAPPELMAN: Sure.

15 MIKE: Great. Thanks.

16 TAD KAPPELMAN: Yes. We got that, via CAs  
17 (phonetic) the Q & A from the Japanese Embassy.

18 And anything else?

19 MIKE SNODDERLY: Hey, Mike, this is Mike  
20 Snodderly. Is Tom Hitchman (phonetic)? I heard Tom  
21 in the call-in. Is he there?

22 MIKE: Tom's not -- he's not here, but  
23 maybe he's on the call.

24 TOM: I'm here, on the call.

25 MIKE: Yes. Hey, Tom, last night, we were

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1 told to request through Josh if our commission offices  
2 wanted a copy of this Severe Accident Strategies that  
3 were finalized yesterday and provided to the  
4 Chairman's Office.

5 Could you please -- I mean, instead of  
6 Josh getting five or six requests, I believe we all  
7 would like that. So if he could get that out to us  
8 this morning, I'd really appreciate it.

9 MIKE FRANOVICH: Mike, this is Mike  
10 Franovich. It did go out last night. I put the  
11 request in, and they responded back.

12 MIKE: Okay.

13 MIKE FRANOVICH: You should have been  
14 CC'ed on that.

15 MIKE: Great. Thank you. Thanks a lot.  
16 That's all.

17 BILL WATERS: Okay. If there's no further  
18 questions, we'll look forward to giving you another  
19 update at 20:00 later today.

20 Thanks. Have a great Monday.

21 MALE SPEAKER: Team Japan coming up on the  
22 ET bridge.

23 MALE PARTICIPANT 2: Hello?

24 JAMES: Hello, James.

25 MIKE WEBER: This is Mike Weber.

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1 JAMES: Oh, you know, I have a hard time  
2 distinguishing you and Mr. Dyer's (phonetic) voice.

3 MIKE WEBER: Oh. Well, I don't know if  
4 that's a good thing or a bad thing, but it's  
5 (inaudible).

6 (Laughter.)

7 JAMES: You all have the same -- similar  
8 accents.

9 Yeah, how are you doing, Michael?

10 MIKE WEBER: Good. How are you?

11 JAMES: I couldn't be better.

12 MIKE WEBER: Awesome.

13 JAMES: Yeah.

14 MIKE WEBER: How was your meeting?

15 JAMES: It was interesting. It was,  
16 obviously, it was crowded with the ambassador and the  
17 chairman and Admiral Walsh, and I don't know, there  
18 was a bunch of them there. So it was very crowded.

19 The chairman I think had a good visit  
20 today. He saw all of the top leaders, and got a good  
21 picture of the situation, I think.

22 MIKE WEBER: Good.

23 JAMES: And I don't think -- he doesn't  
24 waver from the Reactor Safety Team's recommendation.

25 MIKE WEBER: Okay.

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1 JAMES: He still thinks that's a good  
2 recommendation, and the Japanese -- you know, it's a -  
3 - it's an extremely complicated situation, that's for  
4 sure. I mean, that's an understatement.

5 MIKE WEBER: Yeah.

6 JAMES: We all know that.

7 MIKE WEBER: Yeah.

8 JAMES: But, you know, the more -- there  
9 are more twists and turns in it than you can -- this  
10 water in the turbine building is a real challenge, in  
11 the turbine building basement.

12 Now, one of those units, I can't remember  
13 all of the distances, but one of the units, they're  
14 only ten centimeters from ground level. The other  
15 one's like a meter and a half. They're all rather  
16 close, but they indicate that the water level's not  
17 rising.

18 MIKE WEBER: Okay.

19 JAMES: Which, I don't understand why, if  
20 it's coming from primary containment, it wouldn't be,  
21 considering they keep adding water to the containment.

22 MIKE WEBER: Right.

23 JAMES: So I'm not sure anybody knows  
24 where that water came from. But their concern is that  
25 they do anything -- they're minimizing injection into

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1 the vessels, because they're afraid it's coming out in  
2 the turbine building, and it's highly radioactive.  
3 And of course, if it overflows and if it comes up to  
4 ground level in the turbine building, that creates a  
5 whole new scenario.

6 MIKE WEBER: Right.

7 JAMES: So, they're hesitant to do  
8 anything.

9 MIKE WEBER: One of the things that Pat  
10 Highland just reported was that they had not  
11 restricted the flow rate, that it was not something  
12 that they had done, it was something that just  
13 occurred.

14 JAMES:

(b)(5)

15 (b)(5)

16 MIKE WEBER: Yeah. Understood.

17 JAMES: They just told me -- I mean,  
18 they've told us all day today that they deliberately  
19 restricted the flow rate. So, but, you know, who  
20 knows. I mean, everything you hear, you kind of --  
21 you know, it's a -- you log it (phonetic), but there's  
22 nothing -- you take nothing as certainty.

23 MIKE WEBER: Understood.

24 JAMES: You know? I mean, that's -- I  
25 just briefly gave you the entire day. The Chairman's

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1 still on the same page -- I mean, hours and hours and  
2 hours of discussion, but the Chairman is still on the  
3 same page of the reactor safety team recommendation.

4 They're comfortable with -- their plan is  
5 feed and bleed until A, they can construct an external  
6 cooling system, and B, they can put something over the  
7 plant to contain releases --

8 MIKE WEBER: Yes.

9 JAMES: -- whether that's a structure or a  
10 tent, whatever it is.

11 MIKE WEBER: Like a sarcophagus kind of  
12 thing?

13 JAMES: Yeah. Yeah. I think the problem  
14 with that is, you know, nobody really knows what the  
15 salt is doing, and it leaves uncertainty for -- you  
16 know, it's not going to be tomorrow they put in a  
17 cooling water system in a tent over the building.

18 MIKE WEBER: No. Right.

19 JAMES: So, you know, the concern with  
20 that is, obviously, people are anxious to get  
21 stability.

22 MIKE WEBER: Yeah.

23 JAMES: And so, that said, you know, with  
24 some discussion about, is it feasible to re-circulate  
25 the water out of the turbine building basement back

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1 into containment, filter it, and cool it, and send it  
2 back to the containment.

3 MIKE WEBER: Just because it's water?

4 JAMES: Well, let's say that you flood  
5 containment, and that flooding causes more flooding in  
6 the turbine building, you could have a closed -- kind  
7 of a closed -- you could --

8 MIKE WEBER: Right.

9 JAMES: -- you're essentially extending  
10 containment out to the turbine building basement and  
11 back, you know, closed loop system, rather than have  
12 it, you know, go out on the ground.

13 MIKE WEBER: Right. Understood.

14 JAMES: Their plan right now for the water  
15 that's in the basement is to bring in a pump and pump  
16 it to some tanker trucks and haul it out of there, but  
17 it is extremely high radioactivity.

18 MIKE WEBER: Yeah. Tens of R per hour,  
19 right? Hundreds of R per hour?

20 JAMES: Yeah. Yeah. So, and then we've  
21 got to figure out where we're going to store it, if we  
22 pump it out, you know, how do we get it to where we  
23 need it to go, and how are we going to store it there.

24 MIKE WEBER: Chuck, do we know whether  
25 those turbine building basements were dry after the

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1 tsunami?

2 JAMES: I don't know the answer to that  
3 question.

4 MIKE WEBER: Yeah.

5 JAMES: All they say is, we went into the  
6 turbine building, we discovered water in the turbine  
7 building basement.

8 MIKE WEBER: Yeah, that somehow it got  
9 contaminated, but, you know --

10 CHUCK CASTO: Right.

11 MIKE WEBER: -- you could have had a large  
12 volume of water down there before they started poking  
13 around down there.

14 CHUCK CASTO: And I think -- well, and  
15 also, you know, spraying this next fuel pool, it's  
16 probably, some of it, that spray water, could have  
17 made its way to the turbine building.

18 MIKE WEBER: Right. Right.

19 CHUCK CASTO: But I think they did  
20 isotopic analysis on the water, and it shows that some  
21 recent fission -- byproducts are from recent fission.

22 MIKE WEBER: Yeah.

23 CHUCK CASTO: So their feeling is, had to  
24 have come from the reactors.

25 MIKE WEBER: Recently.

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1 CHUCK CASTO: Yeah.

2 MIKE WEBER: Yeah.

3 CHUCK CASTO: So, now how -- what's the  
4 flow path, nobody knows.

5 MIKE WEBER: Okay. Anything you need from  
6 us back here?

7 CHUCK CASTO: I think they gave us a  
8 couple more needs, but I will figure out in the  
9 morning what to do with it.

10 MIKE WEBER: Okay.

11 CHUCK CASTO: There's a bunch more  
12 radiation equipment, and they want PNNL to send  
13 somebody out here, you know, tomorrow, to be part of  
14 one of the shielding teams, or spent fuel pool teams,  
15 something like that.

16 MIKE WEBER: Okay.

17 CHUCK CASTO: And then they pushed us  
18 again for the high-quality, high-pressure fire hoses,  
19 which, I'm not sure how that --

20 (Phone rings.)

21 Hold on a second. Mike, somebody's trying  
22 to get a hold of me.

23 MIKE WEBER: Understood.

24 CHUCK CASTO: (Talking to someone on the  
25 phone) It's Chuck. Yes. Yes, hold on. All right,

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1 come on, do you know where I'm at? 618? Yes, all  
2 right. Bye.

3 (Talking to the bridge line.) But anyhow,  
4 what were we talking about, Mike? I'm afraid I lost  
5 track here.

6 MIKE WEBER: We were talking about BNL  
7 (phonetic) needed --

8 CHUCK CASTO: Oh, yeah.

9 MIKE WEBER: -- for ASAP (phonetic), and -  
10 -

11 CHUCK CASTO: Yeah. They wanted PNNL to  
12 come as quickly as possible, to be part of the  
13 radiation team, and then the fire hoses. And I'll  
14 figure out who's working on the fire hoses. I think  
15 somebody is.

16 MIKE WEBER: Okay.

17 CHUCK CASTO: So.

18 MIKE WEBER: Is the actual pumping drain,  
19 is that on site now?

20 CHUCK CASTO: I'm talking to -- do you  
21 want to -- hold on, I'll put you on speaker.

22 MIKE WEBER: Okay.

23 CHUCK CASTO: No, it's the off-center.  
24 It's Mike Weber.

25 I had John Monager join me.

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1 MIKE WEBER: Hi, John.

2 JOHN MONAGER: Mike, how are you, sir?

3 MIKE WEBER: All right. How are you?

4 JOHN MONAGER: Oh, we're doing great,  
5 great.

6 (Laughter.)

7 You've got the --

8 CHUCK CASTO: Over there.

9 No, the pumping system, where is the  
10 pumping system?

11 JOHN MONAGER: It's at the lay-down area,  
12 it's at -- J, J-town. J --

13 CHUCK CASTO: J Village.

14 JOHN MONAGER: J Village, yeah. I talked  
15 to Bill, Bill, tonight, Bill Cook. He says it's up  
16 there.

17 CHUCK CASTO: They're using the medium  
18 pressure pump -- do you want to sit down, John?

19 JOHN MONAGER: No, I'm good.

20 CHUCK CASTO: They're using the medium-  
21 pressure pump for the barge, and so far, I haven't  
22 used a high and low-pressure pump, but we know they  
23 eventually will.

24 JOHN MONAGER: And then Bill Cook said  
25 that that piping they have up there is the eight-inch

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1 piping, which is the type of piping they've been  
2 looking for, so.

3 CHUCK CASTO: They've been bugging us for  
4 hosing and piping. It's eight-inch piping they want  
5 to use to -- I think install the external cooling  
6 water system or something.

7 JOHN MONAGER: Yeah. Yeah.

8 MIKE WEBER: Okay. So they're going to  
9 use the equipment, but not in the way we originally  
10 configured it?

11 CHUCK CASTO: Yeah, basically, they've  
12 broken it apart to some degree, you know, split it up  
13 to constituent parts. Actually, some of that stuff I  
14 think was on separate trailers anyhow.

15 MIKE WEBER: Yeah.

16 CHUCK CASTO: So they're using parts --  
17 pieces and parts, you know, basically broke it up to  
18 use it in a different configuration.

19 MIKE WEBER: Okay.

20 CHUCK CASTO: So it didn't go to waste.

21 MIKE WEBER: Good planning on our part.  
22 Are the barges in place?

23 CHUCK CASTO: One barge is in place.

24 MIKE WEBER: One barge is there.

25 CHUCK CASTO: You know how they're doing

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1 that, they have another -- they have another ship  
2 that's out -- like, how far out is it in the ocean?

3 JOHN MONAGER: I'm not sure. And they go  
4 out and replenish it.

5 CHUCK CASTO: Yeah, they put a water ship  
6 out in the ocean, and they use it -- the second barge  
7 is a shuttle barge back and forth --

8 MIKE WEBER: Ah.

9 CHUCK CASTO: -- between the ship and the  
10 docked barge.

11 MIKE WEBER: Oh, that's good. So that's  
12 the source of fresh water that they're using now?

13 CHUCK CASTO: One of the sources. They  
14 had that original water line from the dam.

15 MIKE WEBER: Okay. And that's working?

16 CHUCK CASTO: Well, it's half-working.  
17 It's working about fifty percent of the design  
18 capability.

19 MIKE WEBER: Okay.

20 CHUCK CASTO: And we don't know how, you  
21 know, stable that is.

22 MIKE WEBER: Okay.

23 CHUCK CASTO: So, if they continue to find  
24 other sources of fresh water, USFJ said they'd bring  
25 in 30 miles of three-inch collapsible piping.

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1 MIKE WEBER: And it has to be installed in  
2 two days.

3 CHUCK CASTO: Have it installed in two  
4 days, and it's going to pump 30 miles from lorries  
5 (phonetic) out on the road that they pour into a tank  
6 and pump it, in a collapsible hose, 30 miles.

7 MIKE WEBER: Wow.

8 (Laughter.)

9 CHUCK CASTO: Does that sound feasible?

10 MIKE WEBER: Not very.

11 JOHN MONAGER: It is more than we  
12 committed to.

13 CHUCK CASTO: Yeah.

14 MIKE WEBER: But it's our military, so, if  
15 there's a way, they'll find it.

16 CHUCK CASTO: Right? If anybody can do  
17 it, they can.

18 MIKE WEBER: You got it.

19 CHUCK CASTO: There's no doubt about it.  
20 And there's some admirals out here that can do  
21 anything, that we've been working with.

22 MIKE WEBER: All right.

23 CHUCK CASTO: But other than that, I don't  
24 think there was anything profound from the meeting  
25 tonight. It was kind of a little bit subdued because

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1 there was so many -- so much brass in there.

2 MIKE WEBER: Yeah, understood.

3 CHUCK CASTO: You know? You know how it  
4 is. Everybody's afraid to talk and say something  
5 stupid in front of all the brass.

6 JOHN MONAGER: Right. Right.

7 MIKE WEBER: Chairman --

8 CHUCK CASTO: So we'll get back to our  
9 real meeting tomorrow night.

10 MIKE WEBER: Okay. The chairman's leaving  
11 tomorrow morning?

12 CHUCK CASTO: Yes. The chairman's leaving  
13 the first thing in the morning.

14 MIKE WEBER: Okay.

15 CHUCK CASTO: And we're going to continue  
16 to do our good work out here, whatever we can  
17 accomplish.

18 MIKE WEBER: Well, we're glad you're  
19 there.

20 JOHN MONAGER: Loving life.

21 CHUCK CASTO: Yeah, living the dream.

22 MIKE WEBER: You're living the dream.

23 (Laughter.)

24 Well, (inaudible), gentlemen.

25 CHUCK CASTO: All right. We'll try.

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1 We'll try to uphold the reputation of that fine  
2 agency.

3 MIKE WEBER: All right. I'm sure you  
4 will.

5 CHUCK CASTO: All right, Mike. Thanks for  
6 the talking.

7 MIKE WEBER: Sure thing. Thank you.

8 CHUCK CASTO: All right. We'll talk to  
9 you soon.

10 MIKE WEBER: All right. Take care.

11 CHUCK CASTO: Good night.

12 MIKE WEBER: Bye.

13 (Silence.)

14 TOM BLOOM (phonetic): What is it, 80-  
15 what?

16 FEMALE PARTICIPANT: 8203.

17 HOLLY HARRINGTON (phonetic): This is  
18 Holly Harrington (phonetic).

19 TOM BLOOM (phonetic): Hi, Holly. Tom  
20 Bloom (phonetic). How are you?

21 HOLLY HARRINGTON: Hi, I'm fine.

22 TOM BLOOM: Wonderful. I'm in the Ops  
23 Center.

24 HOLLY HARRINGTON: Alrighty.

25 TOM BLOOM: So you're on a recorded line.

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1 HOLLY HARRINGTON: Alrighty. And I'm just  
2 trying to track down, I don't know who CS\_IRT is.

3 TOM BLOOM: CS\_IRT? Oh, that's the CSO  
4 (phonetic). That's the --

5 MALE PARTICIPANT: That's the incident  
6 (inaudible) folks for computer security.

7 TOM BLOOM: Right. It's the computer  
8 security folks.

9 HOLLY HARRINGTON: Why would you ask them  
10 to ask the media to do something?

11 TOM BLOOM: It was to take off the --

12 HOLLY HARRINGTON: Well, I understand what  
13 the request was. I mean, this is a map that we've  
14 been fighting through the media since this all  
15 started, and since this is a media website, we'd be  
16 happy to pursue doing it for this one as well. We  
17 appreciate the heads up --

18 TOM BLOOM: Oh.

19 HOLLY HARRINGTON: -- that there was a map  
20 still out there with us on there. I just don't know  
21 how you think the security people should be yelling at  
22 the media. That's our job.

23 TOM BLOOM: Oh, well, because it was a  
24 computer-related link kind of arrangement, that's what  
25 we were basing our --

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1 HOLLY HARRINGTON: Yeah. What this is is  
2 a newspaper in the UK.

3 TOM BLOOM: Oh, okay.

4 HOLLY HARRINGTON: Okay? So we'll go  
5 ahead and pursue that.

6 TOM BLOOM: Well, thank you.

7 HOLLY HARRINGTON: You're very welcome.

8 TOM BLOOM: And if you would just kind of  
9 forward that to CS\_IRT and let them know that you got  
10 it, then I think it will take care of it.

11 HOLLY HARRINGTON: Can you do that from  
12 your end? Can you simply write back to them and say,  
13 OPA is taking care of it?

14 TOM BLOOM: Yes.

15 HOLLY HARRINGTON: Yes, I mean, since the  
16 request originally came from you, I think that would  
17 be better, if you simply said, stand down, OPA will  
18 take care of it.

19 TOM BLOOM: Well, okay. We can do that.

20 HOLLY HARRINGTON: And then I'll go take  
21 care of it.

22 TOM BLOOM: Beautiful.

23 HOLLY HARRINGTON: Well, whether that will  
24 remove it or not, I don't know, but I will ask them  
25 to.

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1 TOM BLOOM: Wonderful.

2 HOLLY HARRINGTON: Alrighty. Thanks.

3 TOM BLOOM: We're trying to close out for  
4 the action item over here.

5 HOLLY HARRINGTON: Yes. No problem. And  
6 if you see it anyplace else, I mean, it's something  
7 we've been trying to stamp out. You know, feel free  
8 to send me a link to wherever it is that you're also  
9 seeing it.

10 TOM BLOOM: Got it. We didn't realize  
11 that, so thank you much.

12 HOLLY HARRINGTON: No problem.

13 TOM BLOOM: Alrighty.

14 HOLLY HARRINGTON: Alrighty.

15 Bye-bye.

16 (Silence.)

17 (CONFERENCE CALL CONCLUDED.)

18

19

20

21

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

Title: Japan's Fukushima Daiichi ET Audio File

Docket Number: (n/a)

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1 UNITED STATES OF AMERICA  
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3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

5 + + + + +

6 TUESDAY

7 MARCH 29, 2011

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Test one, two, three.

3 MALE PARTICIPANT: Count to ten.

4 MALE PARTICIPANT: One, two, three, four,  
5 five, six, seven, eight, nine, ten.

6 MALE PARTICIPANT: Do I sound okay to you?

7 MALE PARTICIPANT: Yeah, a little low  
8 volume, but you sound okay.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: All right, this is  
11 going to be long-form reading, HP Laser Jet 4100  
12 Series printers, supply status page. Hewlett Packard  
13 supplies can be ordered on the internet at  
14 <http://www.hp.com> or by calling Hewlett Packard.

15 Please refer to your printer user number  
16 for the telephone number. For highest print quality,  
17 always use genuine Hewlett Packard laser jet supplies.

18 Sounded okay?

19 (Inaudible) were calling into the bridge,  
20 but you guys are only doing (Inaudible) calls, right?

21 You're not doing point-to-point? Okay. Well,  
22 (Inaudible).

23 You guys probably (Inaudible).

24 (Inaudible) stayed up all night. You get used to it.

25 So, whenever, (Inaudible). Oh, really?

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1 FEMALE PARTICIPANT: This is Lisa. Am I  
2 talking on the bridge? Should I keep talking?

3 MALE PARTICIPANT: You're on the bridge.

4 FEMALE PARTICIPANT: Hey, Bill, can you go  
5 in and see? We can't go in with a cell phone. Can  
6 you go in and listen?

7 MALE PARTICIPANT: I'm in here now.

8 FEMALE PARTICIPANT: Okay, we're all here.  
9 Got a vacuum going in the background.

10 FEMALE PARTICIPANT: I can walk away from  
11 the vacuum if that's a problem.

12 FEMALE PARTICIPANT: I think the vacuum is  
13 good.

14 FEMALE PARTICIPANT: One, two, three,  
15 testing.

16 FEMALE PARTICIPANT: Hey, it's Lisa. I'm  
17 over here in Craig's little room, Craig's room,  
18 Craig's list, Craig's refrigerator.

19 MALE PARTICIPANT: It's not doing what it  
20 was doing before.

21 MALE PARTICIPANT: They reverted that to  
22 the original settings before I came here.

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: I was called out here  
25 to look at the system, so it sounds fine now, but I

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1 need to try to look into everything and make sure.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: This is, unfortunately,  
4 kind of the best test we can get until 7:30.

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: So, I guess that might  
7 be sitting -- I might ask to be here at 7:30 and just  
8 kind of monitor everything.

9 MALE PARTICIPANT: Yes, we would  
10 appreciate that.

11 FEMALE PARTICIPANT: That sounds like a  
12 good idea. Do you want us to keep talking?

13 MALE PARTICIPANT: I'm sorry?

14 FEMALE PARTICIPANT: Do you need me to  
15 keep -- did you need me to keep talking? Are you  
16 good?

17 MALE PARTICIPANT: I think we're okay for  
18 now.

19 FEMALE PARTICIPANT: Okay. Thanks.

20 FEMALE PARTICIPANT: Thank you.

21

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1  
2 (CONFERENCE CALL INITIATED)

3 MALE PARTICIPANT: Hello?

4 MALE PARTICIPANT: Hello?

5 MALE PARTICIPANT: Did we lose him?

6 MALE PARTICIPANT: We may have lost him.

7 I don't hear him.

8 MALE PARTICIPANT: I think we did.

9 MALE PARTICIPANT: No, no, we're still  
10 here. Can you hear us better now?

11 MALE PARTICIPANT: Oh, okay.

12 MALE PARTICIPANT: I can hear you a lot  
13 better at this point.

14 MALE PARTICIPANT: Again, the decision on  
15 whether you would want the briefings once a day or  
16 twice a day is really something you need to look at in  
17 terms of what it takes for you to do your job. It  
18 does take time for us to prepare for these, you know,  
19 and that's taking time away from other activities that  
20 we would be conducting in the Operation Center.

21 So, if we went down to one, that would  
22 provide us more time, consistent time to be able to  
23 deal with our other federal family shareholders in the  
24 industry and our own creative thinking here and not  
25 have the disruption, but to have the break taken to do

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1 this particular brief, if it's really not doing much  
2 for you and you can get it done or if you even want to  
3 try it and see if it works.

4 And, again, if there's something that  
5 comes up that is a significant change, we wouldn't  
6 wait. We'd get the second one scheduled like we  
7 always typically do throughout the year. We'd get you  
8 on the phone, and we'd update you on it.

9 MIKE SNODDERLY: Yes. This is Mike  
10 Snodderly. I think we've found them very, very  
11 valuable, but, yes, I think we can go to once a day  
12 and then let you guys, if you feel that there's  
13 something that changes significantly, then let us  
14 know, and we have faith in you guys to do that. Thank  
15 you.

16 MALE PARTICIPANT: This is (Inaudible). I  
17 guess what I would ask is that the Ops Center or ET  
18 decide or make a recommendation on what would be good  
19 time in terms of what your briefing schedules are and  
20 so forth so if we go to one a day, we can have an idea  
21 of maybe sometime in the middle of the day, you know,  
22 have a set time.

23 MALE PARTICIPANT: Okay. We can do that.  
24 We can propose a time and give that a try for a  
25 while. Are there any other questions on any of the

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1 information that we brought forward this evening?

2 DAVE LOY (phonetic): Yes, this is Dave  
3 Loy (phonetic).

4 BILL ORDERS: This is Bill Orders. Can you  
5 hear me? This may be an obtuse comment, so, please,  
6 if it is, give me a break, but the Unit 1 reactor  
7 pressure vessel and dry well are intact, and we're  
8 thinking about flooding it, right?

9 MALE PARTICIPANT: Correct.

10 BILL ORDERS: Well, you've got a trench  
11 full of water, and it's highly radioactive. I can  
12 think of no better place to put it. Just an  
13 observation. Over.

14 MALE PARTICIPANT: Okay. Appreciate the  
15 comment, Bill. Thank you.

16 BILL ORDERS: It's probably stupid, and if  
17 it is, I'm sorry.

18 MALE PARTICIPANT: No.

19 MALE PARTICIPANT: No. In fact, that was  
20 one of the things we had heard yesterday that the  
21 Japanese were considering pumping out of the turbine  
22 buildings with those condensers and back in.

23 BILL ORDERS: Well, if they're going to  
24 flood it up, it seems logical to me.

25 MALE PARTICIPANT: Yes.

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1 BILL ORDERS: All right. Thank you.

2 MALE PARTICIPANT: Good comment. Thanks  
3 for offering it.

4 PAT CASTLEMAN: This is Pat Castleman, and  
5 I have a couple of questions here. One of them is do  
6 we any more information on radiation health specs  
7 offsite and onsite?

8 MALE PARTICIPANT: Do we have them?

9 MALE PARTICIPANT: Do we have more  
10 information about rad levels onsite and offsite?

11 DOUG: Bill, this is Doug. I'm the PMT  
12 Director. I don't think we have anything beyond what  
13 we had yesterday, at least not -- we haven't gotten  
14 anything recently.

15 MALE PARTICIPANT: Okay, so do we have any  
16 more information on the AMF flights?

17 MALE PARTICIPANT: This is from yesterday,  
18 right?

19 DOUG: No, not since yesterday, Pat.

20 PAT CASTLEMAN: You got the information  
21 yesterday on AMF?

22 DOUG: Yeah.

23 PAT CASTLEMAN: Okay, and the next  
24 question is have we done any more RASL (phonetic) runs  
25 and NARAC (phonetic) runs?

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DOUG: We haven't done any more RASL runs.

The NARAC gave us a recent, their recent run that they had done as of Saturday. We're trying to see if they're getting any -- if they have any additional runs after that.

The one that they did on Saturday used the larger source term, and when we asked them (b)(5)

(b)(5)

So we're trying to see now if we can get our plausible source term in the queue of scenarios the NARAC is going to be running. We haven't gotten an answer to that yet, but we would like to see the plausible scenario run as a benchmark, as a data

point, (b)(5)

(b)(5)

PAT CASTLEMAN: Right. Okay. Okay, that's good to know.

MALE PARTICIPANT: Break. Break. New news. We got a 1800 report from DoE, and they did include a couple of new AMF plots in that.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: So, they didn't get

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1 distributed to the PMT yet, but --

2 MALE PARTICIPANT: I hadn't gotten to that  
3 point in the reading material.

4 MALE PARTICIPANT: I think it's in the  
5 back.

6 MALE PARTICIPANT: I'm getting through it.

7 MALE PARTICIPANT: Yes, so it looks like  
8 they've included in there a little bit, you know, of  
9 information from 1:00 today that there's something  
10 there. We'll -- there's no reason why it's unclassified.

11 DOUG: You know, Pat, if you need some  
12 further information on the update, give me a few  
13 minutes to look it over after the call. I can get  
14 back to you on any specific question.

15 PAT CASTLEMAN: Oh, that's fine. I just  
16 wanted to know where we were with that, so, you know,  
17 just follow your normal process in terms of, you know,  
18 evaluating what information is coming in, and kind of  
19 keep us updated on that.

20 DOUG: Okay. Will do.

21 PAT CASTLEMAN: Yes, I'm not asking for  
22 anything special. I just wanted to know, because the  
23 thing is we haven't gotten a lot of offsite  
24 information, and it would be certainly good. We're  
25 getting some pieces, but, you know, it's just it would

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1 be good to know that, I guess.

2 And then it looks like, you know, from the  
3 latest status reports that the radiation levels  
4 (Inaudible) keep going down. I don't know if y'all  
5 have any information or comment on that.

6 DOUG: No, that was what we got at the  
7 beginning of our shift, and that, as far as I know,  
8 hasn't changed.

9 PAT CASTLEMAN: Okay. That sounds good.  
10 Now, are there any -- do we know if the Japanese are  
11 considering any changes to their protective action  
12 recommendations?

13 MALE PARTICIPANT: No. In fact, at the  
14 moment we understand that they are not making any  
15 changes.

16 PAT CASTLEMAN: Okay. Okay, and then, as  
17 far as our 50-mile evacuation recommendation, that  
18 still stands?

19 MALE PARTICIPANT: Yes.

20 PAT CASTLEMAN: Okay, and then the next  
21 question I have, it gets back to Unit 1. It was  
22 reported that they were talking about or TEPCO was  
23 talking about doing a nitrogen (Inaudible) of the  
24 containment. Is that still on the table?

25 MALE PARTICIPANT: Yes, although they had

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1 a one-day delay in getting the nitrogen hooked up and  
2 working slow, Pat, but that is still their plan.

3 PAT CASTLEMAN: Okay. All right, so one-  
4 day delay. Okay, good. Then the next question I  
5 have, I just have two more questions, so bear with me.

6 The latest (indiscernible, possibly set  
7 rep) talks about white smoke coming from the Unit 3  
8 spent fuel pool. Do we have any elaboration on that?

9 MALE PARTICIPANT: No, I'm sorry, Pat,  
10 Fred, we don't.

11 MALE PARTICIPANT: Okay, so we don't know  
12 if it's steam or if it's something else burning in  
13 there?

14 MALE PARTICIPANT: That's correct. We  
15 know that when they put water into the pools on Unit 3  
16 and 4 they get a large steam reaction, but we don't  
17 know if the continual plume is steaming off of  
18 residual water or not.

19 I think our assumption has been that it's  
20 steam, but we don't -- it's not definitive. (b)(5)

21 (b)(5)

22  
23 PAT CASTLEMAN: Okay. And to add to that,  
24 just in general, another question. One of the things  
25 that the Japanese had asked for was some shielding,

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1 and it wasn't like lead shielding. It would be like a  
2 shield structure or something like that. Have there  
3 been any developments on that front?

4 MALE PARTICIPANT: Not that I'm aware of,  
5 Pat.

6 PAT CASTLEMAN: Okay. Okay, and then,  
7 really, this is my last question, unless something  
8 triggers something else. Regarding AC power  
9 restoration, where do they stand with that?

10 MALE PARTICIPANT: Pat, the last I heard,  
11 they got control room lighting back on Unit 4 today,  
12 finally. I don't know. They had talked earlier about  
13 a temporary 4KB switch gear, but it's been fairly  
14 quiet on that.

15 I think the last time I answered a  
16 question on that is the mega results that they were  
17 getting were not good, and since that time it's been  
18 pretty quiet other than lighting in Control Room  
19 Number 4.

20 PAT CASTLEMAN: Okay. Okay, and that was  
21 like their attempt to reestablish control ventilation,  
22 then, I imagine.

23 MALE PARTICIPANT: That, you know, I don't  
24 know specifically, but I believe that's correct. We  
25 have not heard. I haven't heard, anyway, that they've

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1 gotten control room HVAC back.

2 PAT CASTLEMAN: Okay.

3 MALE PARTICIPANT: You know, in terms of  
4 using that power they brought in through the temporary  
5 buses, other than lighting up the control rooms we  
6 haven't seen a whole lot in terms of how they're using  
7 that.

8 We did hear that the freshwater injection  
9 to the three units had transitioned to temporary  
10 electric pumps, but there were indications that those  
11 were being powered by generators.

12 PAT CASTLEMAN: Okay, right, the portable  
13 generators that they brought onsite.

14 MALE PARTICIPANT: Right.

15 PAT CASTLEMAN: Yeah, yeah, that makes  
16 sense. I guess I lied. I have another question, and  
17 this gets back to the reestablishment of AC power and  
18 the contaminated (indiscernible, possibly vaults) in  
19 Unit 3. They were trying to string, you know,  
20 electrical cables and so forth and had to evacuate.

21 So do we know any more about where they  
22 stand with the watering Units 2 and 3 (Inaudible),  
23 Bill?

24 BILL: The last we heard was they were  
25 looking for a place to dewater to, I believe.

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1 PAT CASTLEMAN: Okay, so that gets to what  
2 Bill Holder mentioned earlier about maybe just pumping  
3 it back into the containment, then.

4 BILL: Correct, and as Brian said, we have  
5 discussed that internally. They were worried about  
6 contamination in terms of radioactive contamination,  
7 but in terms of things that would block flow paths and  
8 degrade a pump was what we understood their  
9 reservation in that respect was.

10 PAT CASTLEMAN: Okay. Okay. Well, that  
11 does end my questions. Thank you.

12 MIKE FRANOVICH: Okay. This is Mike  
13 Franovich again. I've got a question for you.

14 This morning Mike Weber had mentioned that  
15 Secretary Chu had recommended that for the water,  
16 fresh water injection, that the fresh water would be -  
17 - it would be preferable to have de-aerated water  
18 injected, and it was left that the NRC was going to --  
19 and the RST was going to evaluate that proposal.  
20 Where do we stand this evening with that option?

21 MALE PARTICIPANT: Mike, that was vetted  
22 through the federal panel and through NPO (phonetic)  
23 and CAPL (phonetic) and VETIS (phonetic) and others,  
24 as well, and did not come to a similar conclusion.

25 DOE supported the approach that the NRC

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1 had put forward so on a CVTS (phonetic) call today I  
2 guess indicated the path that we were looking at  
3 taking and didn't talk about any of the behind-the-  
4 scenes work with regard to the Secretary but just  
5 addressed the fact that we had completed our work in  
6 interagency and industry manner, and the belief was  
7 that was the right place to be.

8 MIKE FRANOVICH:: Okay. Great. Thank  
9 you.

10 MALE PARTICIPANT: Any other questions?  
11 Okay, we will get back to you tomorrow with a time  
12 that is preferable for us, and if there's any certain  
13 times that clearly don't work for you, we'll find a  
14 middle ground.

15 PAT CASTLEMAN: Okay, that sounds good to  
16 me, but, I guess, for the moment, then, we're still on  
17 for 7:30 tomorrow, then.

18 MALE PARTICIPANT: Yes, until we make the  
19 change, we'll be on at 7:30.

20 PAT CASTLEMAN: Excellent. Thank you.

21 MALE PARTICIPANT: You all have a good  
22 evening.

23 MALE PARTICIPANT: Mike Franovich, are you  
24 still on?

25 MIKE FRANOVICH: I am.

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1 MALE PARTICIPANT: Can you give me a call?

2 (b)(6)

3 MIKE FRANOVICH: You cut out on the last  
4 four.

5 MALE PARTICIPANT:

(b)(6)

6 MIKE FRANOVICH:

7 MALE PARTICIPANT: Yes.

8 MIKE FRANOVICH: Got it.

9 MALE PARTICIPANT: Thanks, everybody.

10 MALE PARTICIPANT: Goodnight.

11 MALE PARTICIPANT: Goodnight.

12 MALE PARTICIPANT: Goodnight.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: (Inaudible) playback?

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: (Inaudible)

MALE PARTICIPANT: We should be getting  
light -- uh-oh.

OPERATOR: There are currently 20  
participants in your conference. The following people  
are in the conference.

MALE PARTICIPANT: Headquarters Operations  
Officer monitor phone.

BRIAN HARRIS: Brian Harris, OGC.

GREG POWELL: Greg Powell, Region I.

LARRY CHAMPER: Larry Champer (phonetic),  
FSSE.

MICHAEL MARSHALL: Michael Marshall,  
Chairman Jaczko's office.

ED HART: Ed Hart, SECY.

MARVIN SYKES: Marvin Sykes, Region II  
Duty Officer.

CATHY HANEY: Cathy Haney (phonetic),  
NMSF.

BILL ORDERS: Bill Orders, Commissioner  
Magwood's office.

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1 PAT CASTLEMAN: Pat Castleman,  
2 Commissioner Svinicki's office.

3 PAUL MICHALAK: Paul Michalak, FSME EO.

4 ELIOT BRENNER: Eliot Brenner, Public  
5 Affairs.

6 LINDA HOWELL: Linda Howell, Region IV.

7 MIKE FRANOVICH: Mike Franovich,  
8 Commissioner Ostendorff's office.

9 MARTY VIRGILIO: Marty Virgilio.

10 HIRONORI PETERSON: Hironori Peterson,  
11 Region III Duty Officer.

12 MIKE SNODDERLY: Mike Snodderly,  
13 Commissioner Apostolakis's office.

14 MALE PARTICIPANT: Tom Blount, Nighttime  
15 EO for NRR.

16 OPERATOR: Roster playback is complete.

17 ROY ZIMMERMAN: Good evening. This is Roy  
18 Zimmerman, and at the table we've got our team  
19 director, Mr. McDermott (phonetic). Let me run  
20 through a few things with you this evening, some of  
21 which you've heard before, some of which you may not.

22 This is still a dynamic event. Each day  
23 there is a new development of some sort, some a little  
24 bit on the positive side, some not so much so.

25 The status of the unit, the fresh water

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1 injection to Units 1, 2, and 3 to the reactor core is  
2 continuing. We still conclude that there is some  
3 degree of fuel damage to Units 1, 2, and 3.

4 We have vetted our recommendation on core  
5 cooling and planning to avoid hydrogen explosions,  
6 particularly with Unit 1.

7 (b)(5)

8  
9 (b)(5)

10  
11  
12  
13  
14  
15 On a different matter, you've heard about  
16 the trench that's outside. TEPCO states that the  
17 trench out at Unit 2 is filled with water. It reads  
18 about 100R. It is only a few inches from the top of  
19 the trench.

20 They are considering or have put sandbags  
21 there to try to get a little bit of additional height  
22 and safety to keep the contaminated water out of the  
23 ocean. It's really not that far from this trench to  
24 the ocean, so they are -- they're focused on the  
25 trench. The fresh water barges are supposed to arrive

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1 Wednesday, which is today, so hopefully they'll have a  
2 better source of fresh water for the longer term.

3 Japan has expressed interest in pumps that  
4 separate contaminants and then evaporate the water.  
5 Pacific Northwest Labs have sent two people to Japan  
6 to get a better idea of what they might be able to do  
7 to assist in this effort.

8 The (indiscernible, possible vectal)  
9 pumping station is in J village (phonetic), and folks  
10 continue to get trained on that. There's not a  
11 specific date, but I think what we hear is that  
12 they'll likely use bits and pieces of it in different  
13 ways and perhaps not use it as one complete unit.

14 NEI has provided the password-protected  
15 website information on the atmospheric sampling from  
16 U.S. reactor sites, the EPA and DOE, so that should be  
17 working well.

18 The industry consortium had a call today  
19 and saw value in having one list put together of  
20 requests, basically nuclear requests from Japan. As  
21 it is now, there are -- there may be duplication.

22 The thought was mentioned that perhaps the  
23 site team could serve as a clearinghouse of the  
24 Japanese requests of supplies and materials to avoid  
25 that duplication, probably good and bad associated

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1 with that in taking up the team's time, but the  
2 feeling is something needs to be done to get a better  
3 handle on all of the different nuclear-related  
4 requests that Japan has made from robots to shielding  
5 to large amounts of flexible piping and so forth.

6 (b)(5)  
7  
8  
9  
10

11 You may have heard about the plutonium on  
12 the ground that's been reported in the media. Two of  
13 five samples have been taken of that soil, and so far  
14 the tests indicate about .1 MR per hour for those two  
15 samples.

16 Now, the Shaw Group has entered into an  
17 agreement with Westinghouse, B&W, and Toshiba to  
18 provide support to TEPCO, and they're ramping up staff  
19 in Japan and have developed a program with short-,  
20 medium-, and long-term goals.

21 I don't believe we're privy to that  
22 program and those goals at this point, but I think  
23 we'll likely try to get as much information about what  
24 they're thinking as can be shared.

25 TEPCO ocean water samples, our guess is

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1 that it's not too far offshore. Some yesterday show  
2 iodine readings 34 to 814 times the Japan limit.

3 We're not sure exactly what the Japan  
4 limit is, but it's higher than that and that protesium  
5 (phonetic) is 110 times the Japanese limit. Again, we  
6 think that's within fairly close proximity to the  
7 site.

8 As we look at our priorities, we have some  
9 concerns with regard to the Unit 1 drywall -- dry well  
10 and the issues associated with maintaining integrity  
11 of that dry well being that it's believed to have been  
12 lost from 2 and 3.

13 So the items I went over before for a  
14 severe accident in terms of the flooding and things to  
15 try to do to prevent a hydrogen explosion, the  
16 Japanese are likely focused on that to some degree,  
17 but they seem to have a strong focus on the spent fuel  
18 pool 3 and 4, where there is either very little water  
19 or they're dry, and they are interested in assistance  
20 on what can be done to move that spent fuel pool to be  
21 able to get rid of that source term that competes with  
22 their -- with their actions.

23 The thought is that there may be a hole in  
24 one or more of these spent fuel pools, and there is a  
25 thought that just the weight of the water with the

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1 damage from the earthquake could be enough to cause  
2 structural damage and failure of the spent fuel pool,  
3 so they have a significant concern in that area.

4 (b)(5)  
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14 DUE is set to provide robots to Japan, set  
15 to arrive on April 5. We've not yet heard from Vince  
16 Holahan, but we believe that he is in Pearl Harbor and  
17 should be getting settled in. Again, he'll be  
18 advising Admiral Willard.

19 I don't think I've mentioned this item.  
20 Japan has an interest in pumps that can separate  
21 contaminants and then evaporate the water. I guess I  
22 did mention this, the two P&L pumps that are going out  
23 there.

24 Last item, TEPCO is considering spraying  
25 what's called Zeolite on the outside and interior of

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1 the reactor buildings in an effort to affix  
2 contamination. Accomplishing this is a very difficult  
3 activity.

4 This is a thought they had on their own.  
5 It's not coming from any of the international players  
6 in this, and for them to be able to do this sounds  
7 extremely challenging for them to be able to apply  
8 this to the reactor building.

9 With that, I'll stop and see if team  
10 members have other items they'd like to raise, and  
11 then we'll open it up to questions. Okay, we're ready  
12 for questions.

13 MARTY VIRGILIO: Hi, this is Marty. Just  
14 an FYI, earlier in the week Margie Doane made an offer  
15 to serve as the clearinghouse related to supplies  
16 coming in from all countries.

17 ROY ZIMMERMAN: Okay. It might not have  
18 been known on the earlier call, so we can pass that  
19 on, and being that it was looking as a US lead until  
20 somebody else in the federal family picks it up, we  
21 can try to move this into OIP, because I like the idea  
22 better than belaboring the team with this extra  
23 activity.

24 MARTY VIRGILIO: That' right. Nancy  
25 Fragoyannis might have a little bit more detail on

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1 that if she's still on watch.

2 ROY ZIMMERMAN: And she is -- we'll cover  
3 that right after this. Thanks for raising the issue,  
4 Marty. And this is a customary 15-second pause before  
5 the TAs descend on the team.

6 MIKE SNODDERLY: Well, it's like  
7 (Inaudible). I'll go first before the mad rush. I  
8 just have a comment and a couple questions for you.

9 That Zeolite that the Japanese are  
10 thinking about spraying to fix contamination, I seem  
11 to recall I think the Russians had sprayed some type  
12 of polymer.

13 ROY ZIMMERMAN: Hey, Mike, can you hear  
14 me?

15 MIKE SNODDERLY: Yes.

16 ROY ZIMMERMAN: We cannot hear you very  
17 well at all, so we're going to try to do a little IT  
18 work here for a minute and see if we can get the  
19 phones working a little bit better, so if you'll just  
20 bear with us.

21 MIKE SNODDERLY: Okay. Can you hear me  
22 now?

23 ROY ZIMMERMAN: It's still very muddled.

24 MALE PARTICIPANT: Can he maybe call in  
25 again? It's Marty. It's everybody, I'm afraid.

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1 ROY ZIMMERMAN: Yes, (Inaudible) was the  
2 same way.

3 MALE PARTICIPANT: It's on your end.

4 ROY ZIMMERMAN: All right, let's try to  
5 make do. I want you to try to speak slowly so that we  
6 can pick it up.

7 MIKE SNODDERLY: A comment on the Zeolite  
8 that the Russians are -- I'm sorry, that the Japanese  
9 are thinking about using to affix contamination, I  
10 somehow recall the Russians and the Ukrainians had  
11 also used some type of polymer to try to affix  
12 contamination during Chernobyl. I think there is some  
13 history with this.

14 ROY ZIMMERMAN: Are you talking about the  
15 Zeolite?

16 MIKE SNODDERLY: Yes. I don't know if  
17 it's that specific type of compound, but the Russians  
18 did use a polymer back during the time of Chernobyl,  
19 so there is some history here.

20 ROY ZIMMERMAN: All right. That's a good  
21 lead for us to pursue to see what can be learned in  
22 that area. What we were hearing sounded like it was a  
23 very major undertaking with could be a few thousand  
24 flights of aircraft over the site and all of that.  
25 We'll see if there's a simpler way of doing it and

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1 look at an outreach to the Russians.

2 MIKE SNODDERLY: The second thing, a  
3 question for you. You mentioned the dearth rates in  
4 the trench or trenches.

5 ROY ZIMMERMAN: The 100R?

6 MIKE SNODDERLY: Yes, that's what I wanted  
7 to confirm. It was 100 R per hour?

8 ROY ZIMMERMAN: That's correct.

9 MIKE SNODDERLY: That's correct. Okay,  
10 and then I have a comment for you. I'm trying to get  
11 a better feel for we had last night a discussion about  
12 the issue that the recirculation pump seals are  
13 believed to have been failed on Units 1, 2, and 3.

14 I think I heard last night that that's a  
15 part of the rationale why we believe the water level  
16 has not gone above mid-core, mid-level in the core.  
17 Did I hear that correctly?

18 ROY ZIMMERMAN: Well, I can say that we  
19 didn't hear you correctly, unless you're any of us who  
20 are able to -- I know you're talking about the recirc  
21 pump and valves, but that's really all I got. Did  
22 anybody get the question?

23 FEMALE PARTICIPANT: I think he's talking  
24 about last night on the call I gave the (Inaudible)  
25 has failed and that that's why the level can't get

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1 higher than the core.

2 MALE PARTICIPANT: On the fuel up on the  
3 recirc?

4 FEMALE PARTICIPANT: Right.

5 MALE PARTICIPANT: Mike, let me repeat  
6 what the question was, and you can tell me. Your  
7 question is do we believe that the recirc pump seal  
8 failure on Units 1 through 3 is the reason that the  
9 vessel can't be filled above where they're reporting  
10 it at, about half active fuel or two-thirds active  
11 fuel?

12 MIKE SNODDERLY: Correct. I wanted to  
13 verify that that's what I heard last night.

14 MALE PARTICIPANT: So, let me -- it is  
15 correct that (b)(4)

16 (b)(4)

17  
18  
19  
20 However, the level indication for a  
21 reactor pressure vessel, we don't really believe  
22 that's an accurate level, and also the flow has been  
23 significantly throttled, so the limited flow may be as  
24 much of a reason as anything else on maintaining or  
25 increasing vessel levels, but your basis premise is

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correct that (b)(4)

(b)(4)

MIKE SNODDERLY: Just an observation, looking at the level data that UNISA publishes daily, if we're to do the conversion of those values into inches, which is it ranges between -66 and 88 inches, it sounds to me like if you use a BWR4 fuel (inaudible) that water is over the core.

So I just I'm not sure why we're -- how we're -- what instrumentation or feedback we're relying on. It may be worth taking a closer look at whether or not those levels that were actually having the right zero point from where it's being measured in terms of the level tap.

The reason I mention this is it seems central to a lot of the strategies of whether or not the seals are flooded or not and whether or not to flood the vessel or the containment or passively flood it.

So, I just -- I'm raising that because it's a nagging issue for me when I look at the numbers whether or not they're -- internally we have the right reference point.

MALE PARTICIPANT: Yes, Mike, so our understanding from (b)(4)

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(b)(4)

MIKE SNODDERLY: Okay, because when I look at BWR4s here, usually, you know, the flow line is 04 above that top of active fuel.

MALE PARTICIPANT: Correct, but that's not the case in Japan as we understand it.

MIKE SNODDERLY: Okay.

MALE PARTICIPANT: Also, using the SAM-Gs (phonetic), the existence or lack of existence of recirc pump seal failure, that's not driving the strategy. The SAM-G would be the same strategy in either case, RCF complete integrity or not, consistent with the recommendation we're making, I believe.

MIKE SNODDERLY: Okay. I'm not sure why you would flood the containment if the reactor is cool and seems to be intact, but if you're following the SAM-Gs, I understand your strategy.

I just have one last comment, and that is about these calls. I really appreciate them. They're very detailed, and they're very helpful, but I want to just go ahead and put on the table if the main offices are amenable to this, I'm amenable to a daily phone call, instead of every 12 hours.

It's a little bit easier on the Ops

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1 Center. I think we seem to be at a point where things  
2 are moving at a certain pace that maybe a daily call  
3 is sufficient.

4 MICHAEL MARSHALL: Mike, this is Michael  
5 Marshall. I agree with you.

6 BILL ORDERS: This is Bill Orders. Why  
7 don't we talk about that tomorrow at our TA meeting?

8 MIKE SNODDERLY: Fair enough. Fair  
9 enough.

10 TOM: This is Tom. I agree. Let's talk  
11 about it tomorrow, even though I'm not going to be  
12 there, but the one caveat to daily calls, I would say,  
13 is that, you know, daily is okay but maybe update as  
14 necessary for the latest developments.

15 PAT CASTLEMAN: This is Pat Castleman. I  
16 think we do need to discuss that, because this is  
17 still a (indiscernible, possibly dynamic) situation.

18 ROY ZIMMERMAN: What we got out of that is  
19 the Commission offices will discuss that tomorrow, and  
20 we'll provide some feedback on their desire.

21 MALE PARTICIPANT: And, Roy, if the ET has  
22 any recommendation, we would love to hear that, also,  
23 if you could supply that in the morning to us.

24 ROY ZIMMERMAN: Okay. Well, I can provide  
25 it now. If it is -- if it is assisting you and your

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1 principals in doing their job, we can continue to do  
2 that. Hold a minute.

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(CONFERENCE CALL INITIATED)

MARTY VIRGILIO: Marty Virgilio.

MALE PARTICIPANT: Good morning. How are  
you?

MARTY VIRGILIO: Good morning.

MALE PARTICIPANT: Are you just joining us  
for the call, Marty?

MARTY VIRGILIO: Yes. That was the plan.

MALE PARTICIPANT: Okay. Just getting  
ready here in the Ops Center. Any other updates?

MALE PARTICIPANT: Just going down a  
couple things Dave and I were talking about, just  
starting with the fact that there was a concern the  
Unit 3 (inaudible) spent fuel pools (inaudible) not to  
be NRC concern.

MALE PARTICIPANT: Those are lower  
priorities now.

MALE PARTICIPANT: Lower priorities.

MALE PARTICIPANT: Primary priorities,  
one, because of central (inaudible) failed  
containment.

MALE PARTICIPANT: Yes, neither one is  
still a priority, but the team and I have concerns  
that UNISA and TEPCO still seem to believe that Unit 3

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(b)(5)

MALE PARTICIPANT: They're reporting temperatures, so where are the temperatures coming from?

MALE PARTICIPANT: We're not sure of that.

MALE PARTICIPANT: Is there actually a thermocouple on the water, or is this inferred from other --

MALE PARTICIPANT: I don't think they've put anything new into the system. It's whatever was already there.

MALE PARTICIPANT: All right.

MALE PARTICIPANT: (Inaudible) thermocouple is going to do this and do that.

MALE PARTICIPANT: And the (Inaudible) reading was from the fueling (indiscernible, possibly surge) tank, right? (Inaudible) tell you what the (Inaudible). It tells you the level in the surge tank.

MALE PARTICIPANT: Yes, but they're still pumping in Units 4 and 3.

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1 MALE PARTICIPANT: Periodically --

2 MALE PARTICIPANT: Periodically.

3 MALE PARTICIPANT: -- they've pumped about  
4 150 tons of water for about three hours. They put  
5 that in there, and in another day or two they go back  
6 and (Inaudible). So that's why the team is a little  
7 bit more concerned about that.

8 MALE PARTICIPANT: Understood.

9 MALE PARTICIPANT: Still Unit 1 is the  
10 concern right now because of that (Inaudible) just  
11 gets minimum flow in there.

12 MALE PARTICIPANT: To the reactor.

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: So that the  
16 (Inaudible), even though (Inaudible).

17 MALE PARTICIPANT: Right.

18 MALE PARTICIPANT: I guess that will be  
19 more of a (Inaudible).

20 MALE PARTICIPANT: It will be, yes. We'll  
21 talk more about that with the industry folks, but they  
22 don't -- the tunnels on Unit 1 are 10 centimeters from  
23 overflowing.

24 MALE PARTICIPANT: (Inaudible) the ocean.

25 MALE PARTICIPANT: Yes.

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: So that's a concern.

3 MALE PARTICIPANT: But they're prepping  
4 the tank. They're going to pump the water out of  
5 those?

6 MALE PARTICIPANT: They're making  
7 preparations for that. That's going to begin in not  
8 much longer.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: I guess I'll return to  
11 this issue of faults and cracking. I guess the  
12 assessor is claiming that the cracking rate could be  
13 as high as 100 centimeters per day.

14 MALE PARTICIPANT: Peterson made sure that  
15 was --

16 MALE PARTICIPANT: Yes, our folks looked  
17 at that, and they didn't think that's the case.  
18 (Inaudible) per day.

19 MALE PARTICIPANT: That's chloride-  
20 assisted cracking.

21 MALE PARTICIPANT: But over time, when  
22 this turns into months, it could be (Inaudible)

23 MALE PARTICIPANT: Right. We had that  
24 recommendation from the Secretary of Energy to pump  
25 the oxygenated water into the reactor.

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1 The appearance I had going on a trip last  
2 night was that

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4 (b)(5)  
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7 MALE PARTICIPANT: Yes, but I didn't hear  
8 anything about that on the (Inaudible), so that  
9 (Inaudible) a question from you?

10 MALE PARTICIPANT: (b)(5)

11 (b)(5)  
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21 MALE PARTICIPANT: (Inaudible) are ready.

22 MALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: We're ready.

24 MALE PARTICIPANT: We're ready.

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: Okay, so we'll unmute  
2 the conference.

3 MALE PARTICIPANT: All right, thanks.

4 OPERATOR: There are currently 23  
5 participants in your conference. The following people  
6 are in the conference.

7 RAY POWELL: Ray Powell, Region I.

8 LAURA PEARSON: Laura Pearson, (Inaudible)  
9 ILTA Duty Officer.

10 MICHAEL FRANOVICH: Mike Franovich,  
11 Commissioner Ostendorff's office.

12 FRANA ORDATH (phonetic): Frana Ordath  
13 (phonetic), NMSS.

14 JOHN COMER (phonetic): John Comer  
15 (phonetic), Commissioner Svinicki's office.

16 JOE O'HARA: Joe O'Hara, Headquarters  
17 Operations Officer.

18 MICHAEL SNODDERLY: Mike Snodderly,  
19 Commissioner Apostolakis's office.

20 LINDA HOWELL: Linda Howell, Region IV.

21 CLIFF ROTHSCHILD: Cliff Rothschild, OGC.

22 KEVIN SHEA (phonetic): Kevin Shea  
23 (phonetic), FSME.

24 BILL ORDERS: Bill Orders, Commissioner  
25 Magwood's office.

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1 MIKE CHEOK: Mike Cheok, NRR.  
2 CATHY HANEY: Cathy Haney, NMSS.  
3 BRIAN HARRIS: Brian Harris, OGC.  
4 TOM HIPSCHEMAN: Tom Hipschman, Chairman's  
5 office.  
6 DAN RICH: Dan Rich, Region II Duty  
7 Officer.  
8 JIM DYER: Jim Dyer, Chief Financial  
9 Officer.  
10 LARRY CAMPER: Larry Camper, FSME.  
11 HIRONORI PETERSON: Hironori Peterson,  
12 Region III Duty Officer.  
13 JIM ANDERSON: Jim Anderson, EDO's office.  
14 ANDY BATES: Andy Bates, SECY.  
15 OPERATOR: Roster playback is complete.  
16 MIKE WEBER: Good morning, everyone.  
17 Thanks for joining us. This is Mike Weber here in the  
18 Ops Center, and I'm currently directing the executive  
19 team.  
20 Welcome to our call providing the 7:30  
21 update to the situation at Fukushima Daiichi. You  
22 should have the updated information through the  
23 situation report.  
24 We understand now that TEPCO is injecting  
25 fresh water into Units 1, 2, and 3 using temporary

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1 electric pumps for injection. That's a change from  
2 previously. They're not using the fire pumps anymore.

3 They're using electric pumps powered by the offsite  
4 AC that they have.

5 We understand that TEPCO is also preparing  
6 to pump to remove the contaminated water from the  
7 turbine building basement. One of the basements is  
8 almost reaching the overflow point where it could run  
9 out into the ocean, and we understand that they're  
10 within ten centimeters or so of the lip where that  
11 would start happening.

12 Their plan as we understand it is that  
13 they would pump water into existing tankage onsite,  
14 maybe even the condenser well or maybe into other  
15 tanks, but we don't have the specifics on that.  
16 They're just scrambling to reduce the amount of water  
17 that's accumulated in the basement.

18 The Reactor Safety Team developed a draft  
19 discussion paper on the potential leakage paths to the  
20 turbine building, and we vetted that internally and  
21 also with our partners, Naval Reactors, INPO, GE, and  
22 we've got minor comments, but the general sense of  
23 that feedback is that they are supportive.

24 Yes, these are potential pathways, no real  
25 significant conclusions drawn on the basis of that

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1 analysis, but it at least answers the question of,  
2 "Well, how could it get from the reactors into the  
3 turbine building basement?"

4 Highly radioactive water, as you're aware,  
5 was found in what's being referred to in the Japanese  
6 press as a trench. It looks like it's a pipe chase  
7 used for pipes and cables outside Unit 2.

8 While the source of that water remains  
9 unclear, the fission products found in it because of  
10 the short lives certainly suggest reactor origin, and,  
11 like I said, actions are being taken to prepare to  
12 pump the water, are already in progress, and that  
13 would include putting sandbags there to inhibit the  
14 overflow into the ocean.

15 We reported in this morning's situation  
16 report that they have seen slight increases from some  
17 of the onsite radiation monitoring when the wind blows  
18 from the contaminant area towards the monitors.

19 That is not unexpected, and they're seeing  
20 radiation rates in the vicinity of 2 to 3 milli-R per  
21 hour at those monitors, but the general trend offsite  
22 continues to improve with decreasing concentrations  
23 detected away from the reactor site.

24 We had talked yesterday about plans that  
25 TEPCO was making to inert the containment atmosphere

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1 for Unit 1. We understand that that's pushed back by  
2 a day, so they're now looking to prepare to inert the  
3 atmosphere by tomorrow, actually, by Thursday, March  
4 31.

5 No real update on the status of the  
6 pumping system. The freshwater barges that were  
7 provided by the Navy are now staged 40 miles from the  
8 site and were being used yesterday to do some pump  
9 testing to ensure their functionality.

10 The government of Japan has requested  
11 help, additional assistance with shielding, removal of  
12 the spent fuel pool, management of the high rad areas,  
13 and robotics, both for debris removal and for  
14 monitoring, and our team also learned in Japan that  
15 TEPCO has contracted with the Shaw Company for  
16 assistance on decay heat removal and debris removal,  
17 but I don't think we have the specifics on what  
18 specific assistance has been requested.

19 We're continuing to work with Nuclear  
20 Energy Institute as a focal point for collecting the  
21 U.S. nuclear plant monitoring data, and they are  
22 making progress on sharing that data through an online  
23 database.

24 We thought that their protected website  
25 was going to go live yesterday, but they had some

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1 delays, so we now anticipate that that would be made  
2 available to us sometime today, as well as to the  
3 other agencies, DoE and EPA.

4 You may have seen in Tomorrow's News  
5 Tonight yesterday that the Governor from the State of  
6 Pennsylvania issued a press release on the detection  
7 of I-131 in samples at the nuclear power plant sites  
8 and that that prompted the state to do some additinal  
9 monitoring of drinking water supplies.

10 The press release, we understand, was  
11 intended to downplay concerns on the part of the  
12 residents of Pennsylvania that their drinking water  
13 may be contaminated.

14 We have shared that with the other  
15 agencies, and I think that's all part of this  
16 coordinated effort to make certain that the federal  
17 agencies work together to keep the public informed and  
18 at the same time allay any concerns that would not be  
19 warranted based on the trace levels of contamination  
20 that are being seen in rain water and drinking water.

21 We are continuing to look at the severe  
22 accident management strategies, working through the  
23 Reactor Safety Team. There was discussion earlier in  
24 the week about the potential revisions to those  
25 strategies in light of possible threats to

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1 containment.

2 For example, should an emphasis be placed  
3 more on flooding containment at this point, rather  
4 than the emphasis on continued core cooling? I think  
5 the RST is continuing to work that, right? Okay. So  
6 they're affirming that they're still working on that,  
7 and we, of course, are working that with Naval  
8 Reactors, the DOE, with EPRI, and NEI, excuse me,  
9 INPO, and GE so that we can provide a coordinated  
10 response.

11 (b)(5)  
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19 There's been a lot of press talk recently  
20 about plutonium being detected in soil samples in the  
21 vicinity of the Fukushima-Daiichi units. We're trying  
22 to get the information. The best information we have  
23 at this point is what we get from the TEPCO press  
24 release.

25 The levels that are being reported are not

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1     unsurprising and don't necessarily indicate that the  
2     plutonium came from the accident at Fukushima. The  
3     levels are quite low and are consistent with  
4     concentrations one might expect from atmospheric bomb  
5     testing and are comparable to levels found in the  
6     United States, but until we get more specific  
7     information we really aren't in a position to comment  
8     on those concentrations.

9             We are continuing our work to coordinate  
10    with Pacific Command, ACOM. We had a call yesterday.

11    Vince Holahan is now in Hawaii and will be  
12    participating in a call with ACOM there in Hawaii at  
13    12:15 our time to ensure that we're latched up with  
14    our military counterparts supporting the U.S.

15            We have a consortium call with industry  
16    and NRC today, and that's at 10:00, so we've  
17    reestablished those calls, and that's the report for  
18    this morning. Any questions or comments?

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Mr. Virgilio coming up  
on the conference.

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1  
2  
3 (CONFERENCE CALL INITIATED)

4 MALE PARTICIPANT: Mr. Casto, this is  
5 Headquarters Operations Officer on the bridge.

6 CHUCK CASTO: Okay, thank you. Good  
7 evening.

8 MALE PARTICIPANT: How are you?

9 MALE PARTICIPANT: Hi, Chuck.

10 CHUCK CASTO: Good.

11 MALE PARTICIPANT: Roy Bryan here.

12 CHUCK CASTO: Hi, guys. Do you know if  
13 the Chairman wants a briefing this evening?

14 MALE PARTICIPANT: I don't believe so,  
15 though let me take that back. What time did you guys  
16 arrange for your daily call?

17 CHUCK CASTO: Now.

18 MALE PARTICIPANT: Okay, so the answer  
19 would be yes.

20 CHUCK CASTO: Okay.

21 MALE PARTICIPANT: That's the new thing  
22 that we tried to set up around your schedule. I  
23 briefed him at 3:00, but now we've entered in your  
24 daily briefing, so you want us to move him in your  
25 direction, move you in his direction?

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1 CHUCK CASTO: Whatever you think, Roy.  
2 Whatever you --

3 MALE PARTICIPANT: Are you ready to go?

4 CHUCK CASTO: Yes, I am.

5 MALE PARTICIPANT: All right. Let's see  
6 if we can make it happen. How has your day been?

7 CHUCK CASTO: Oh, great, thoroughly.  
8 We've got plenty of time to get things done.

9 MALE PARTICIPANT: Good. Should I believe  
10 you?

11 CHUCK CASTO: No, we'll get things done  
12 today. We'll make progress.

13 MALE PARTICIPANT: All right. Folks are  
14 working to try to get you moving along over to the  
15 Chairman.

16 CHUCK CASTO: No problem.

17 MALE PARTICIPANT: Transfer Chuck over to  
18 the Chairman.

19 MALE PARTICIPANT: We'll call the  
20 Chairman, get him up on the bridge here.

21 MALE PARTICIPANT: They may want to have  
22 private conversation. I would have them just talk,  
23 the two of them.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: Are we going to get to

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1 talk to Chuck otherwise?

2 CHUCK CASTO: I can call back in or  
3 whatever you want me to do.

4 MALE PARTICIPANT: Yes, Chuck, we had a  
5 couple of things that we wanted to follow up with you,  
6 just issues for the team. The reentry paper, we  
7 understand that's been sent to the team.

8 CHUCK CASTO: I haven't seen it, but I'll  
9 look for it.

10 MALE PARTICIPANT: Okay, and that was sent  
11 to the team so that it could be shared with the  
12 embassy.

13 CHUCK CASTO: Yes, I knew they were  
14 working on it yesterday, but I haven't seen it.

15 MALE PARTICIPANT: Okay, so that should  
16 have been shipped out to you while you were sleeping.  
17 The other issue, and you may have more insights than  
18 we do into this, we turned over this issue of  
19 establishing a point of contact on the site team in  
20 Japan to work with the consortium group and also the  
21 idea that there needs to be a consolidated list of  
22 technical requests and actions to share with the  
23 consortium.

24 The liaison team was going to work with  
25 that, but I just wanted to let you know that seems to

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1 be something that's come up over the last 24 to 48  
2 hours about, you know, duplicative requests and so  
3 forth.

4 CHUCK CASTO: Right. Yes, Dart and all  
5 those, they're trying to get a consolidated list.

6 MALE PARTICIPANT: Okay.

7 CHUCK CASTO: There was a J4 team, I  
8 think, assigned, but the embassy, somebody in the  
9 embassy turned it off, but I actually thing that J4  
10 team was what the Chairman had arranged for the  
11 logistical support, so I asked them yesterday to look  
12 at that again and turn that team back on.

13 MALE PARTICIPANT: Chuck, how do you see  
14 the processes working in terms of requests you're  
15 getting in your evening meetings from the Japanese  
16 counterparts and how that's coming back to the States  
17 and getting worked?

18 Do you see progress there? Do you see  
19 things being worked that they need help with, or is it  
20 requests are coming in, and there's a seemingly  
21 bureaucratic process, and we're not really making  
22 progress?

23 CHUCK CASTO: Yes, I would say there's a  
24 time lag. Yesterday was better than the day before  
25 and the day before that. There's progress, but, you

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1 know, you're right. We've got to -- it needs to be a  
2 little bit more systematic.

3 MALE PARTICIPANT: Okay, because we've  
4 heard some things from the folks at our, you know,  
5 staff in the liaison position down with USAID. You  
6 know, questions come up, you know, the requests for  
7 the remote control helicopter, for example.

8 Well, you know, the question comes up  
9 that, you know, a private company in the U.S. is going  
10 to -- how is that they're willing to supply it, but  
11 the question is, well, who's paying to, you know --

12 CHUCK CASTO: Yes, KMAX (phonetic) is a  
13 dead issue, basically.

14 MALE PARTICIPANT: Okay.

15 CHUCK CASTO: So that one was an  
16 exception, I think.

17 MALE PARTICIPANT: KMAX?

18 MALE PARTICIPANT: Okay.

19 CHUCK CASTO: Yeah.

20 MALE PARTICIPANT: But all of those --

21 CHUCK CASTO:

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23 (b)(5)  
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1 MALE PARTICIPANT: Right. Well, perhaps  
2 this list would be, you know, part of the list that  
3 could be the where is this equipment coming from, and  
4 how is it being funded?

5 CHUCK CASTO: And the time line. The  
6 other column on there would be the, you know, when do  
7 we think we could get it to them.

8 MALE PARTICIPANT: Right.

9 CHUCK CASTO: But I think if we do, USAID  
10 -- I talked to Bill Berger (phonetic) last night, and  
11 if we can get that -- they want out of the business,  
12 basically.

13 MALE PARTICIPANT: Right.

14 CHUCK CASTO: And if we can get that J4  
15 team turned back on, they will do -- they will do all  
16 this for us, supposedly.

17 MALE PARTICIPANT: And that's just in  
18 terms of getting equipment from Point A to Point B.

19 CHUCK CASTO: And tracking.

20 MALE PARTICIPANT: And tracking, okay.

21 CHUCK CASTO:

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23 (b)(5)  
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8 MALE PARTICIPANT: And the idea there was  
9 that if there was a resource that was identified and  
10 they needed assistance in getting it to Japan that  
11 that team would not only help get it there but help  
12 with tracking of all requests?

13 CHUCK CASTO: That's my understanding.

14 MALE PARTICIPANT: Okay.

15 CHUCK CASTO: And we're -- you know, pass  
16 it off to like INPO --

17 MALE PARTICIPANT: Right. I mean, that's  
18 the --

19 CHUCK CASTO: -- to find the sourcing.  
20 The sourcing might be a little difficult, you know,  
21 because they might not know all of the sourcing. We  
22 may have to help them with that, but we would have to  
23 help them with the sourcing, but once it's sourced,  
24 then they could do all the getting it there and  
25 funding, finding the funding.

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1 MALE PARTICIPANT: Finding the funding to  
2 transport it or actually to procure what they need?

3 CHUCK CASTO: Probably both, I would say.

4 MALE PARTICIPANT: Okay. That's  
5 interesting. Okay.

6 CHUCK CASTO: Because most all of this is  
7 DOD money, anyhow. It's TACOM (phonetic) money.

8 MALE PARTICIPANT: Okay. Yes, that's the  
9 piece we were missing.

10 MALE PARTICIPANT: Chuck, do you get the  
11 sense that their primary focus is on what to do with  
12 the Unit 1 dry well?

13 CHUCK CASTO: No, I think their primary  
14 focus is removing the spent fuel.

15 MALE PARTICIPANT: Does that make sense to  
16 you guys?

17 CHUCK CASTO: Not really. We would prefer  
18 to see the reactors stabilized before they move on,  
19 but they're --

20 MALE PARTICIPANT: If we could secure --  
21 that's because years of trying to avoid a hydrogen  
22 explosion in Unit 1 dry well, and they're trying to  
23 come to grips with what's the right way to do that  
24 between purging and inerting with nitrogen but doing  
25 it very carefully so they don't lose the steam that's

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1 preventing the hydrogen explosion in the interim now.  
2 There's a lot of energy getting spent back here  
3 trying to understand what to do as the pressure keeps  
4 going up in the dry well.

5 CHUCK CASTO: Right.

6 MALE PARTICIPANT: I don't know what  
7 they're doing messing around with spent fuel other  
8 than trying to keep it covered.

9 CHUCK CASTO: Well, you know, to get --  
10 it's a chicken-and-the-egg thing. To get into the  
11 plant, to get -- to move around, they've got to reduce  
12 the source term, so they're trying to -- they're  
13 trying to reduce the source term as much as they can.

14 MALE PARTICIPANT: By making sure that the  
15 spent fuel pools are flooded up.

16 CHUCK CASTO: No, by -- well, yes, A, yes,  
17 that, and, B, removing the spent fuel.

18 MALE PARTICIPANT: So they think they have  
19 the time to remove the spent fuel before they deal  
20 with the dry well condition in Unit 1?

21 CHUCK CASTO: That's -- feed-and-bleed is  
22 their strategy until they can reduce source term and  
23 get in the plant to do other things.

24 MALE PARTICIPANT: So they're doing  
25 periodic, periodic purging from the dry well to lower

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1 pressure?

2 CHUCK CASTO: When they need to vent,  
3 they'll vent, but I haven't heard them vent lately.

4 MALE PARTICIPANT: Okay. Yes, I don't  
5 have the numbers in front of me. I think they were up  
6 around 58 pounds in the dry well.

7 MALE PARTICIPANT: Unit 2?

8 MALE PARTICIPANT: Unit 1.

9 MALE PARTICIPANT: Oh, sorry, yes, I meant  
10 Unit 1. I thought it was the core was at 54.

11 MALE PARTICIPANT: Maybe 60 pounds,  
12 somewhere in there. The containment was half of that.

13 MALE PARTICIPANT: Dry well pressure, I  
14 think --

15 MALE PARTICIPANT: Okay, it's lower, 26  
16 pounds in the dry well.

17 CHUCK CASTO: Yes, I don't have the  
18 latest.

19 MALE PARTICIPANT: Yes.

20 MALE PARTICIPANT: As soon as you're done  
21 talking to him, we'll move him to another bridge and  
22 call the Chairman.

23 MALE PARTICIPANT: Okay. We'll let you  
24 get on with the Chairman. We'll move you to a bridge  
25 and see if -- is the Chairman available, do we know?

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1 MALE PARTICIPANT: We haven't called him.  
2 I didn't want to -- I didn't know how much more you  
3 had.

4 MALE PARTICIPANT: You probably ought to  
5 do it before it gets too late.

6 MALE PARTICIPANT: All right. Chuck, if  
7 you've got time to give us a call back later on in the  
8 day, that would be great.

9 CHUCK CASTO: Absolutely. I'll call you.  
10 We have a team meeting at 8:00, so I'll call you  
11 after that.

12 MALE PARTICIPANT: Yes, we've got an 8:00  
13 here, as well, so.

14 CHUCK CASTO: So it'll be 9:00. It'll be  
15 13 hours, so (Inaudible).

16 MALE PARTICIPANT: You're right. Okay,  
17 we'll chat with you later on tonight.

18 CHUCK CASTO: Okay. Thank you, sir.

19 MALE PARTICIPANT: Thanks for calling in.

20 CHUCK CASTO: See you, guys.

21 MALE PARTICIPANT: See you.

22 CHUCK CASTO: See you. Bye now.

23 MALE PARTICIPANT: Mr. Casto?

24 CHUCK CASTO: Yes?

25 MALE PARTICIPANT: Headquarters Operations

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1 Officer here. Were you going to talk to the Chairman,  
2 then, right?

3 CHUCK CASTO: I have a scheduled call at  
4 6:30 p.m. with him every day. I don't know if he  
5 wants it or not.

6 MALE PARTICIPANT: Yes, sir, we got the  
7 word that he did, and we were going to move you to a  
8 separate bridge so that we could get hold of him and  
9 put him on there with you.

10 CHUCK CASTO: Okay.

11 MALE PARTICIPANT: Okay, we're going to do  
12 that now. Hold on.

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4 (CONFERENCE CALL INITIATED)

5 MALE PARTICIPANT: The Chairman is on the  
6 AT bridge.

7 CHAIRMAN JACZKO: Hello?

8 ROY ZIMMERMAN: Hi, Chairman, Roy  
9 Zimmerman here. How are you?

10 CHAIRMAN JACZKO: Good, how are you?

11 ROY ZIMMERMAN: Okay. You sound awake.

12 CHAIRMAN JACZKO: What's that?

13 ROY ZIMMERMAN: You sound awake.

14 CHAIRMAN JACZKO: Well, I may -- you know,  
15 at first I thought you said sound and awake. I may be  
16 awake, but I don't think I'm sound.

17 ROY ZIMMERMAN: Okay, well, let me not  
18 take up too much of your time. I'll go over some  
19 plant status information with you first.

20 The situation continues to be somewhat  
21 dynamic. We continue to learn new things each day.  
22 They do have fresh water injections to all three units  
23 right now.

24 Still looks like they do have fuel damage  
25 to Units 1, 2, and 3. They have had the migration of

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1 water with radioactive material that looks like it  
2 came from the core and that it found its way to the  
3 turbine building basement.

4 CHAIRMAN JACZKO: Yes.

5 ROY ZIMMERMAN: Not sure what that flow  
6 path is, but that is something that they're trying to  
7 find a balance with the amount of water that they put  
8 in for cooling, recognizing the more water they put  
9 in, the more water, radioactive liquid cleanup they  
10 have to deal with on the other end --

11 CHAIRMAN JACZKO: Yes.

12 ROY ZIMMERMAN: -- although there is an  
13 anomaly in that they are not seeing the turbine  
14 building flooding level increasing.

15 CHAIRMAN JACZKO: Yes.

16 ROY ZIMMERMAN: So either it is cascading  
17 to another location. Because of the way it's set up,  
18 the level won't go up any further or possibly other  
19 explanations, but in one frame of thought you could  
20 think that if they keep putting more in, the basement  
21 level would continue to rise, but that's not been the  
22 case.

23 There's a lot of attention focused on this  
24 trench at Unit 2. It's reading 100R. Apparently,  
25 it's still only a number of about ten centimeters or

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1 so before the berm, where it would have access to the  
2 ocean. They're putting sandbags out to try to contain  
3 the water leaving the trench.

4 Other things that are ongoing, the barges,  
5 the fresh water barges, are expected to arrive  
6 Wednesday, which is today in Japan, as you know better  
7 than anybody, so hopefully they'll have sources of  
8 fresh water beyond the limited amount they've had thus  
9 far.

10 Here in the U.S., the NEI database, the  
11 web-protected server, is up and operational. DoE and  
12 EPA have the password to the website, so they can  
13 track the indications of what's coming from the U.S.  
14 nuclear plant.

15 CHAIRMAN JACZKO: Okay.

16 ROY ZIMMERMAN: And they are seeing some  
17 slight increases but nothing that comes close to any  
18 sort of health consequences.

19 CHAIRMAN JACZKO: Okay.

20 ROY ZIMMERMAN: The issue that's been  
21 worked on the last couple of days has included this  
22 issue of the NRC's recommendation for filling  
23 containment and the order in which that's done versus  
24 the vessel and then the core and then the dry well  
25 itself.

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(b)(5)

ROY ZIMMERMAN: We don't think that that was communicated to the Japanese.

CHAIRMAN JACZKO: You do or you do not?

MALE PARTICIPANT: Do not.

CHAIRMAN JACZKO: Okay.

ROY ZIMMERMAN: Which would be good, because we don't really want conflicting messages going, but with you going to the Deputy's meeting tomorrow, there is the potential that that issue can arise, but DoE at whatever level was involved in the phone call today and concurred along with these other organizations that I mentioned that this was the proper action to take, I think are estimated that they would be venting and inerting the Unit 1 containment as they were doing the flood-up.

CHAIRMAN JACZKO: Yes.

(b)(5)

(b)(5)

What --

ROY ZIMMERMAN: His issue is that, as I

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1 understand it, (b)(5)

2 (b)(5)

6 CHAIRMAN JACZKO: Right.

7 ROY ZIMMERMAN: (b)(5)

8 (b)(5)

12 CHAIRMAN JACZKO: Where is this  
13 information coming from? Do we know?

14 ROY ZIMMERMAN: (b)(5)

15 (b)(5)

16 CHAIRMAN JACZKO: Yes.

17 MIKE WEBER: Chairman, this is Mike Weber.

18 (b)(5)

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(b)(5)

CHAIRMAN JACZKO: Okay. And DoE was fine with that, the DoE people that were on the call?

MIKE WEBER: The DoE representative who participated in the call supported that, but obviously that individual might have an issue going back up his chain with that message.

CHAIRMAN JACZKO: Okay.

ROY ZIMMERMAN: We don't know what level

(b)(5)

CHAIRMAN JACZKO: When you say --

ROY ZIMMERMAN: -- (b)(5)

(b)(5)

CHAIRMAN JACZKO: (b)(5)

(b)(5)

ROY ZIMMERMAN: He has -- he has made a recommendation.

MIKE WEBER: I think I understand the question.

CHAIRMAN JACZKO: Who has he made a recommendation to?

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1 MIKE WEBER: What they do on a daily basis  
2 is communicate back to the people who participated in  
3 that call the results of the call.

4 CHAIRMAN JACZKO: Okay.

5 MIKE WEBER: (b)(5)

6 (b)(5)  
7  
8

9 CHAIRMAN JACZKO: Okay. Well, did you --  
10 do you concur with that?

11 MIKE WEBER: No.

12 CHAIRMAN JACZKO: Okay. Good. Then let's  
13 just consider it dropped.

14 MIKE WEBER: Okay.

15 CHAIRMAN JACZKO: What else?

16 ROY ZIMMERMAN: (b)(5)

17 (b)(5)  
18  
19  
20

21 CHAIRMAN JACZKO: Yes.

22 ROY ZIMMERMAN: So I think they need to  
23 know that. Some things around the edges, TEPCO, I  
24 think on their own, is attempting to consider the use  
25 of spraying Zeolite on the outside and interior of the

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1 reactor building to try to affix some of the  
2 contamination so it can't blow around.

3 CHAIRMAN JACZKO: Yes.

4 ROY ZIMMERMAN: But it sounds like a very  
5 difficult maneuver to actually be able to accomplish  
6 it considering the logistics involved, so whether that  
7 happens or not we'll have to see.

8 Vince Holahan is in Hawaii. We haven't  
9 heard from him yet, but he should be there now. I  
10 think those are a lot of the highlights there.

11 The IAEA meeting being convened next  
12 Monday or Tuesday --

13 MIKE WEBER: Monday. It's a Tuesday  
14 question mark. I think it's Monday night.

15 ROY ZIMMERMAN: Okay, so Mike thinks it's  
16 --

17 CHAIRMAN JACZKO: I'm sorry, I couldn't  
18 hear. I couldn't hear whoever that was.

19 ROY ZIMMERMAN: It sounds like this IAEA  
20 meeting is Monday regarding the events at Fukushima.

21 CHAIRMAN JACZKO: Okay.

22 ROY ZIMMERMAN: And they're going to seek  
23 additional insights regarding the expected outcome and  
24 so forth. Mark Schaffer will get us some additional  
25 information in prep for that meeting.

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1 The NRC consortium had a good call today,  
2 so they're going to be trying to compile a list of  
3 needs that Japan has expressed, and then for the time  
4 being the NRC would serve as the organization that  
5 would keep one consolidated list for anything nuclear  
6 related to needs that the Japanese have requested.

7 CHAIRMAN JACZKO: We're supposed to  
8 (inaudible) logistical support team through the DART  
9 (phonetic). Did that -- I know it got off-base. Has  
10 it actually finished it up?

11 MIKE WEBER: (b)(5)

12 (b)(5)  
13  
14  
15  
16  
17  
18  
19

20 CHAIRMAN JACZKO: Okay.

21 MIKE WEBER: -- so that the request was  
22 going to go back to invite the J4 team to come there  
23 to the embassy.

24 CHAIRMAN JACZKO: Okay, good.

25 MIKE WEBER: But we don't have -- I think

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1 they were going to send them out, and we don't have  
2 when they're expected to arrive.

3 CHAIRMAN JACZKO: Okay.

4 MIKE WEBER: He understood that they would  
5 be coming sometime over the weekend.

6 CHAIRMAN JACZKO: Okay, good.

7 MIKE WEBER: We also were told, and I  
8 didn't tell Roy this in turnover, because it was so  
9 lower level, but the military is also going to send  
10 one of their biological-radiological response teams,  
11 and that's 138 people plus several C-17 full of  
12 equipment.

13 CHAIRMAN JACZKO: Yes.

14 MIKE WEBER: They would have them there  
15 just in case there would be a need to do large-scale  
16 radiological screening.

17 MALE PARTICIPANT: DOD.

18 MIKE WEBER: So they're expected to ship  
19 out like Saturday, I think.

20 CHAIRMAN JACZKO: Okay.

21 ROY ZIMMERMAN: Okay. Questions?

22 CHAIRMAN JACZKO: No, I don't think so.  
23 So, priorities, then, in the next couple hours?

24 ROY ZIMMERMAN: Priorities are first with  
25 the phone call to provide a status to the federal

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1 partners on how we see the events unfolding at the  
2 site, also to try to continue to fine-tune our  
3 understanding of what's occurring at the site and use  
4 all available information to be able to accomplish  
5 that through our team, through TEPCO, through whatever  
6 Vince brings to the picture and continue to try to  
7 bring this into as great a focus as possible. I think  
8 the biggest concern in front of us is trying to avoid  
9 a hydrogen explosion at Unit 1.

10 CHAIRMAN JACZKO: Okay. Well, good.  
11 Well, keep the focus on, and we'll -- hopefully, some  
12 day this will get resolved.

13 ROY ZIMMERMAN: We feel the same way. We  
14 know it's going to get resolved. We just want to get  
15 it resolved the way we want it to.

16 CHAIRMAN JACZKO: Yes.

17 ROY ZIMMERMAN: All right. You rest up.

18 CHAIRMAN JACZKO: Thanks, everybody.

19 ROY ZIMMERMAN: You rest up.

20 CHAIRMAN JACZKO: Bye.

21 ROY ZIMMERMAN: Bye.  
22  
23  
24  
25

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1  
2  
3  
4 (CONFERENCE CALL INITIATED)

5 JOSH: Josh on the bridge with the ET.  
6 Hello, everyone.

7 MIKE WEBER: Hey, Josh. This is Mike Weber  
8 calling.

9 (b)(5)  
10

11 JOSH: Yes.

12 MIKE WEBER: We had an 11:00 call among  
13 the agencies, including DOE, and the private sector  
14 organizations that we're working with.

15 (b)(5)  
16  
17  
18

19 JOSH: Got it. Good.

20 MIKE WEBER: Now, what I've asked RST to  
21 do is they're going to write up the recommendation,  
22 the priority order that came out of the call, and then  
23 get those to us so that we can get those to the team  
24 in Japan so that they have them when they wake up.

25 JOSH: Okay, and what was the status of

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1 the 3/26 at 2100 recommendations to follow the reactor  
2 management guidelines? I mean, that already went and  
3 contained that recommendation, right?

4 MIKE WEBER: I'm not sure which one you're  
5 referring to.

6 JOSH: There was a several-page document  
7 from 2100 on the 26th of March.

8 MIKE WEBER: Yes.

9 JOSH: So we're kind of back to that  
10 document, I think.

11 MIKE WEBER: That's the base document. We  
12 continue to support the recommendation in that  
13 document.

14 JOSH: Okay.

15 MIKE WEBER: But we are also going to  
16 update that document to reflect the current thinking.

17 JOSH: Okay, which is still consistent  
18 with that, as far as we understand now.

19 MIKE WEBER: Right.

20 JOSH: Okay.

21 MIKE WEBER: So, it's restore core  
22 cooling, cool spent fuel pools, et cetera, cover any  
23 debris that's in the (indiscernible, possibly  
24 torrets).

25 JOSH: Flood containment consistent with

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1 the cautions in the guidelines.

2 MIKE WEBER: Correct.

3 JOSH: Got it, and who -- was OSTP and DoE  
4 on that 11:00 call?

5 MIKE WEBER: DOE's rep was on the call  
6 here in the Operations Center.

7 JOSH: Okay.

8 MIKE WEBER: So what I asked the team to  
9 do is to update that multi-page document, the  
10 consensus recommendations, to reflect the latest  
11 thinking.

12 JOSH: Great.

13 MIKE WEBER: And that they'll probably  
14 deliver sometime tomorrow, but we'll get these  
15 priorities, the ones that came out of the call,  
16 promptly over to the team.

17 JOSH: Okay.

18 MIKE WEBER: I've also asked that they  
19 reach back through the DoE contacts through DoE to

20 (b)(5)

21

22

23

24

25 JOSH: Right.

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MIKE WEBER: (b)(5)

(b)(5)

JOSH: Right. Right. I think he's had some discussions while he was there.

MIKE WEBER: Okay.

JOSH: So he's familiar, and I'll let him know this. He's back now. I'll let him know that information.

MIKE WEBER: Okay.

JOSH: And one other -- oh, who's going to do the 4:00 IPC call?

MIKE WEBER: Roy.

JOSH: Okay. Can I join on that?

MIKE WEBER: Sure.

JOSH: Is he going to do it over at (indiscernible, 28 Flint, I guess)?

MIKE WEBER: Yes.

JOSH: Okay. I'll join on that and make sure that if we need some press on this one issue to make it clear where we are, then we can definitely do that --

MIKE WEBER: Okay.

JOSH: -- at that IPC call, because the

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1 Chairman will be participating in the deputy's meeting  
2 tomorrow morning.

3 MIKE WEBER: That's what I expected.

4 JOSH: Yes.

5 MIKE WEBER: Okay.

6 JOSH: So, okay, excellent. Can I ask you  
7 one other aside?

8 MIKE WEBER: Sure.

9 JOSH: (b)(5)

10 (b)(5)

11  
12  
13 MIKE WEBER: Yes.

14 JOSH: Did that -- is that an email that  
15 went to the Japanese? Is that an email for  
16 consideration in the interagency? What is that?

17 MIKE WEBER: The way we worked it, we gave  
18 it to our reactor safety team, as well as to the team  
19 in Japan. The collective view on that is you could do  
20 that, but, frankly, that's a very low priority at this  
21 point.

22 JOSH: Okay.

23 MIKE WEBER: So it's probably not a  
24 recommendation that we ought to be taking back to the  
25 Japanese.

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1 JOSH: Okay. So he didn't send that to  
2 the Japanese. (b)(5)

3 (b)(5)

4 MIKE WEBER:

(b)(5)

5 (b)(5)

6 JOSH: Got it.

7 MIKE WEBER: You know, he's having these  
8 calls on a daily basis.

9 JOSH: Right, and we are participating in  
10 them?

11 MIKE WEBER: We are participating. Brian,  
12 Sharon, Richard, Lee, and others from research  
13 participate.

14 JOSH: Okay.

15 MIKE WEBER: And then they feed any  
16 highlights of that back to our team, which is how we  
17 found out about the (b)(5)

18 (b)(5)

19 JOSH: Okay. So would that be a topic for  
20 discussion at 4:00, as well, or not?

21 MIKE WEBER: I wouldn't.

22 JOSH: Okay.

23 MIKE WEBER: But if it comes up, we ought  
24 to be prepared to engage.

25 JOSH: Got it.

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1 MIKE WEBER: Our mantra is, "Look, we've  
2 got a process in place. We've got a technical lead.  
3 Let's continue to use that existing process, provide  
4 coordinated, vetted recommendations back to the  
5 Japanese government."

6 JOSH: Absolutely, and I think both you  
7 and Brian in the email traffic I saw from this morning  
8 handled that very well, so thank you.

9 MIKE WEBER: All right.

10 JOSH: Okay, great. Anything else?

11 MIKE WEBER: That's all.

12 JOSH: All right. I will get this right  
13 to the chairman, and thank you very much.

14 MIKE WEBER: Great.

15 JOSH: And I'll see Roy at 4:00.

16 MIKE WEBER: All right. Thanks, Josh.

17 JOSH: Okay. Bye.

18 MIKE WEBER: Bye bye.  
19  
20  
21  
22  
23  
24  
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2  
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4  
5 (CONFERENCE CALL INITIATED)

6 FEMALE PARTICIPANT: -- the fact that the  
7 evacuation order from the Japanese government, a 12-  
8 and-a-half-mile initially, and then the United States  
9 coming in and saying 50-mile radius.

10 (b)(5)  
11  
12  
13

14 CHAIRMAN JACZKO: We support what the  
15 President recommended for American citizens in Japan.  
16 I think it's a different decision to evacuate U.S.  
17 citizens. There's not going to be as many living  
18 within that radius as it is for Japanese people who  
19 have been raised there and live there now.

20 (b)(5)  
21  
22  
23

24 (b)(5) -- but I understand where the confusion can  
25 come from.

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1 FEMALE PARTICIPANT: (Inaudible)

2 CHAIRMAN JACZKO: In the United States,  
3 one of the things we learned from Three Mile Island  
4 was it's good to have one voice to avoid confusion  
5 like you're suggesting.

6 I think what this accident may suggest is  
7 we need to look at an international concept of one  
8 voice so that there's not a discrepancy that one side  
9 or the other could say was either too much or too  
10 less. So I think the reason we went to a one voice  
11 after Three Mile Island, it would probably be a good  
12 idea to look at it at an international level to see if  
13 the same factors apply.

14 FEMALE PARTICIPANT: Appreciate that.  
15 Thank you, Mr. Chairman.

16 MALE PARTICIPANT: Thank you both for your  
17 testimony. I think this has been a useful hearing or  
18 a useful briefing for us, and we appreciate it. If  
19 additional issues come to your attention, please let  
20 us know, and we'll try to -- try to inform the full  
21 committee on all of those, as well. Thank you.

22 MALE PARTICIPANT: Thank you, (Inaudible).

23 MALE PARTICIPANT: Should be a good prep  
24 for tomorrow, (b)(5)

25 (b)(5)

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1 Oh, no, that's not cool

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: I don't like to do  
4 that.

5 MALE PARTICIPANT: People who live in  
6 glass houses shouldn't throw stones.

7 MALE PARTICIPANT: No way.

8 MALE PARTICIPANT: I learned that lesson  
9 very early on.

10 MALE PARTICIPANT: Somehow or other, I  
11 think (Inaudible).

12 MALE PARTICIPANT: Yes.

13

14

15

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1  
2  
3  
4  
5  
6 (CONFERENCE CALL INITIATED)

7 MALE PARTICIPANT: -- fuel and (inaudible)  
8 storage. This keeps the spent fuel pools filled  
9 nearly to capacity, thus maintaining the risk as high  
10 as possibly achievable.

11 A better strategy would be to reduce the  
12 inventory of irradiated fuels in the pool to only the  
13 fuel discharged from the reactor in the last five  
14 years. Less irradiated fuel in the pools generates  
15 lower heat loads.

16 Lower heat loads gives workers more time  
17 to restore pooling or the water inventory in the spent  
18 fuel pool, and if irradiated fuel in the spent fuel  
19 pool did become damaged, having fewer assemblies in  
20 the spent fuel pool means the radioactive cloud is  
21 much smaller.

22 Following the accident at Three Mile  
23 Island, Reactor 1 was significantly upgraded in  
24 emergency procedures and training that the operators  
25 relied upon. Prior to that accident, the procedures

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1     relied on the operators diagnosing what happened and  
2     taking steps to fix that problem.     If they  
3     misdiagnosed the accident, the guidelines could lead  
4     them to taking the wrong steps for the actual accident  
5     they faced.

6             Today's procedures guide the operators'  
7     response to abnormally high pressure or unusually low  
8     water level without undue regard for what caused that  
9     condition.     These revamped emergency procedures  
10    represent significant improvements over the pre-TMI  
11    days, but they only apply to reactor core accidents.

12            No comparable procedures would help the  
13    operators respond to a spent fuel pool accident. It's  
14    imperative that the comparable strategy, comparable  
15    emergency procedures be provided for spent fuel pool  
16    accidents, as they help protect us against reactor  
17    core accidents. Thank you.

18            MALE PARTICIPANT: Okay.

19            MALE PARTICIPANT: Mr. Pietrangelo, go  
20    right ahead.

21            TONY PIETRANGELO: Thank you, Senator.  
22    Good morning, all.

23            First, on behalf of NEI and our members,  
24    our thoughts are with the Japanese, our friends and  
25    colleagues in the industry there, and in particular

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1 those workers on the ground who have been struggling  
2 with trying to bring this plant to a safe condition  
3 over the last couple weeks.

4           Senator McCoska (phonetic), I echo your  
5 empathy for them. I can't pretend to understand what  
6 it's like to get hit by a massive earthquake followed  
7 by a tsunami followed by additional aftershocks of a  
8 very significant magnitude, so they are doing a heroic  
9 job there to bring that plant to a safe condition.

10           There have been a lot of questions thus  
11 far this morning about could it happen here. Could --  
12 you know, what are the events that could bring us to  
13 this similar condition in Japan?

14           What I'd like to say is -- and the  
15 billboard chart from Pete went over the provisions  
16 that go into the licensing of our plants, but I think  
17 for the people at the stations it almost doesn't  
18 matter what gets you in the condition, whether it's an  
19 earthquake, tsunami, flood, hurricane, tornado,  
20 equipment failure, operator error, manufacturing  
21 defect.

22           All those areas exhaustively reviewed by  
23 the NRC before you can get a license, and if you did  
24 get some rare combination of those that puts you in a  
25 station blackout or any other concern where you can't

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1 get cooling to the core, that's why we prepare the way  
2 we do at our plants. We're ready for those kinds of  
3 measures.

4 I want to start with the proactive steps  
5 we've taken as an industry, basically looking at  
6 severe accidents and what goes into what we prepare  
7 for in terms of beyond design basis events. When the  
8 NRC licensed the plants originally, the demonstration  
9 had to be that you could place the plant in a safe  
10 condition given the extreme design basis event,  
11 earthquake, loss of offsite power, et cetera.

12 Since that time, through both NRC  
13 regulation and other measures we put in place, we've  
14 gone beyond the design basis. We've used  
15 probabilistic risk assessment to look at combinations  
16 of initiating events and equipment failures and human  
17 action that could damage the core and what we could do  
18 to respond to those.

19 So we have identified vulnerabilities in  
20 the designs that we've addressed. We've identified  
21 accident management insights for the operators, and I  
22 agree with David's suggestion about looking at severe  
23 accident management for fuel pools. We have some  
24 numbers in place, some measures in place, but not to  
25 the extent we do for the reactors.

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1           Also, I think the President got it right  
2   on March 17.    Again, these designs have been  
3   exhaustively reviewed, but it's incumbent upon us as  
4   an industry and the NRC as the regulator and the  
5   International Atomic Energy Agency and operators all  
6   over the world to fully understand the lessons learned  
7   that come out of Fukushima and apply them.

8           I do want to talk a little bit more about  
9   the improvements we've put in place since the plants  
10  were licensed.   I mentioned the PRA improvements.  
11  Also, after September 11, 2001, we did a lot of work  
12  on fires and explosions related to aircraft impacts,  
13  wiping out quadrants of the plants and seeing what  
14  contingency measures could be put in place to deal  
15  with the loss of key safety functions.

16           This even goes beyond some of the station  
17  blackout measures that David talked about, the ability  
18  to get water into steam generators and PWRs or water  
19  into the primary containment for DWRs, to look at  
20  backup cooling.

21           We put a lot of those measures in place,  
22  and those measures included contingency measures for  
23  spent fuel pools, including getting sprays to the  
24  pools and connections to stand pipes or existing  
25  equipment to keep the fuel covered.

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1 Bill mentioned the analysis of the spent  
2 fuel pools. It's not quite as complicated,  
3 thankfully, as the reactors are. Basically, you have  
4 to keep water in the pool.

5 It's a great radiation shield and a great  
6 coolant. You can go to any spent fuel pool in the  
7 country and look over the handrail right down at the  
8 used fuel without any protective clothing on  
9 whatsoever.

10 Bill mentioned that depending on the spent  
11 fuel, how long it's been in there, it'll take days,  
12 more likely weeks, before you can boil off the  
13 inventory. Typically, there's 20 to 30 feet of water  
14 above the top of those used fuel logs, so that's a  
15 long, long time to be able to deal with the event if  
16 it occurs.

17 One thing I can say going forward is that,  
18 you know, our industry, our hallmark is learning from  
19 operation error. We learned a lot from TMI in terms  
20 of operator training, as well as design enhancements,  
21 and we will enhance safety as a result of Fukushima.

22 We will get these lessons learned. We  
23 started that already, but it's going to take a long  
24 time to get a full understanding of what transpired  
25 there, but when we do, I can assure you that we will

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1 enhance safety margins across the industry. Thank  
2 you.

3 MALE PARTICIPANT: Thank you both for your  
4 testimony. Let me ask first, Mr. Lochbaum, your --  
5 what are your thoughts?

6 We had testimony in the first panel about  
7 the station blackout rule that the NRC has put in  
8 place that presumably would build in some safety  
9 precautions against the kind of loss of power that  
10 we've experienced, or at least the consequences from  
11 loss of power, and I think (inaudible).

12 Would you give us your views as to the  
13 adequacy of the station blackout rule and whether it  
14 does what it should do or whether there are other  
15 things it should have done that it didn't accomplish?

16 DAVID LOCHBAUM: I think (inaudible) to  
17 the NRC's and the industry's credit, it significantly  
18 reduced or improved safety, to put it more positively.

19 I think what Japan showed us is that when the event  
20 lasts longer than our assumptions, either four or  
21 eight hours, we shouldn't leave the operators with no  
22 choices.

23 When the station blackout in Japan lasted  
24 longer than their assumed duration of eight hours,  
25 they were left with no options, and as a result the

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1 reactor cores and the spent fuel pools were overheated  
2 and damaged.

3 We need to do a better job of increasing  
4 the reliability that either we restore AC power from  
5 the grid or restore AC power from the diesel  
6 generators within the four or eight hours that we  
7 assume but not -- and also provide the operators with  
8 something else should those very dedicated, intense  
9 efforts fail so they're not left without any options  
10 other than a miracle.

11 Miracles are great, but you can't rely on  
12 them, so I think we need to look at that to increase  
13 the odds that things are corrected before the station  
14 blackout duration ends and be prepared should that  
15 duration end without success on the restoration of  
16 power.

17 I think we can do that. I don't think  
18 it's difficult. I think Japan showed the price of not  
19 doing that, so I think it's cheap insurance for the  
20 (inaudible) of the United States to go ahead and do  
21 that.

22 MALE PARTICIPANT: Mr. Pietrangelo, did  
23 you have a thought on any of those comments?

24 TONY PIETRANGELO: I think that's one of  
25 the obvious places that we'll have to look, but

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1 looking at the event in Japan with the earthquake and  
2 then the tsunami destroying all the infrastructure  
3 around that plant, what it was was a massive common  
4 mode failure of all those backup emergency diesel  
5 generators.

6 It's hard to postulate that here. It's  
7 very, very unlikely to occur and also destroy the  
8 entire infrastructure around the plant such that you  
9 can't get help there soon.

10 We're already looking at trying to stage  
11 equipment regionally. We've done it locally at the  
12 sites in response to 911 such that we can go beyond  
13 the station blackout duration and still provide  
14 cooling, but to get to 48 hours or 72 hours, pick a  
15 number, we're going to take a hard look at that and  
16 see what resources would be necessary to extend the  
17 capability that long.

18 But, again, it's pretty remote that you'd  
19 get that kind of common mode failure across all your  
20 systems, and really station blackout was predicated on  
21 giving sufficient time to either restore AC power from  
22 the grid or get one of the emergency diesel generators  
23 started.

24 MALE PARTICIPANT: Okay. Mr. Pietrangelo,  
25 let me ask your comment on another statement that Mr.

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1 Lochbaum makes in his testimony. He says a better  
2 strategy would be to reduce the inventory of  
3 irradiated fuel in pools to the minimum amount, which  
4 would be only the fuel discharged from the reactor  
5 core within the past five years, and reducing the  
6 spent fuel stored in the pools would lower the risk in  
7 a couple of ways, and he goes into that.

8 TONY PIETRANGELO: Right.

9 MALE PARTICIPANT: Have you looked at that  
10 recommendation, and do you have a thought about it?

11 TONY PIETRANGELO: Yes. First of all,  
12 it's not a new recommendation. It's been out there  
13 for quite some time.

14 I think as a result of Fukushima we need  
15 to take a real hard look at how we manage used fuel in  
16 our country, and hopefully while (inaudible) the  
17 situation, get some momentum behind a national policy  
18 to deal with used fuel.

19 The issue is with the spent fuel pools,  
20 and I think (inaudible) if it gets uncovered in some  
21 kind of water test scenarios, we don't know exactly  
22 what happens. Part of those lessons learned is going  
23 to be specifically focused on the risk from uncovering  
24 that fuel and what happens when it gets uncovered.

25 Nevertheless, while there would be some

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1 risk reduction in unloading the pools of the fuel rods  
2 after five or six years, the pressure from old fuel is  
3 where the most heat load is and where the most  
4 (inaudible) is, so you would still have some risk  
5 going forward, even if you unloaded all the older used  
6 fuel. So the problem doesn't go away, and it's really  
7 a marginal reduction in risk when you do that.

8 MALE PARTICIPANT: All right. Senator  
9 Murkowski?

10 SENATOR MURKOWSKI: Thank you, Mr.  
11 Chairman. Just to follow up on that, Ben, so the  
12 decay radiation in this -- in this spent fuel that  
13 we're moving and saying, "Okay, after five years we're  
14 going to move this," you're still going to have a  
15 level of radiation there.

16 Do we know what kind of decay radiation we  
17 have, and then, understanding that, do we have to  
18 design some type of a new dry cask to contain that  
19 radiation?

20 MALE PARTICIPANT: No.

21 SENATOR MURKOWSKI: How do we deal with  
22 it, either one of you?

23 TONY PIETRANGELO: The existing -- the  
24 reason we said five years is that the casks that are  
25 being used today, there are hundreds of casks and U.S.

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1 plants around the country -- are designed for fuel  
2 that's been out of the reactor for five years or more.

3 So we don't have to go to new casks. We  
4 can use the ones that are currently certified by the  
5 NRC and being used by the industry. We would just like  
6 to accelerate the transfer from the pools into those  
7 already certified casks and available casks.

8 SENATOR MURKOWSKI: So, really, we don't  
9 have to do that much in terms of any new technologies.  
10 We just move it quicker.

11 TONY PIETRANGELO: That's correct.

12 SENATOR MURKOWSKI: Let me ask a question  
13 about the use of the sea water to act as a coolant. I  
14 understand that we are now in the process, the United  
15 States is now in the process of helping ship in some  
16 fresh water, but in the meantime the sea water has  
17 been used. There's been some question about the  
18 corrosive nature of the salt.

19 I don't know. Maybe this is a question  
20 that was best asked of either of the two gentlemen  
21 before you, but can either one of you speak to this as  
22 an issue whether or not the salt in the sea water is  
23 perhaps having an impact on our ability or on the  
24 Japanese ability to get the reactors under control?

25 DAVID LOCHBAUM: I think the concern was

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1 if you boil off the sea water, you're left with the  
2 salt, which gets encrusted in the fuel and thereby  
3 precludes cooling of it, so that's why as soon as they  
4 have fresh water available they've started injection  
5 to the reactor vessels with fresh water. Those barges  
6 from the U.S. Navy I believe have arrived now, so  
7 they've got about half a million gallons of fresh  
8 water available to continue that exercise.

9 SENATOR MURKOWSKI: But given that we've  
10 already used some pretty substantial amounts of sea  
11 water, has that -- do we know whether or not that has  
12 proven to be an impediment or caused a delay or  
13 further complications in getting this under control?

14 DAVE LOCHBAUM: I don't know, Senator.

15 TONY PIETRANGELO: I think just the  
16 opposite. It helps. They were facing very dire  
17 situations, so the sea water helped stop whatever fuel  
18 damage was ongoing, so they dealt with their most  
19 immediate problem with the use of sea water, as they  
20 should have.

21 Now, what they're properly doing, they're  
22 diluting that sea water with fresh water, so it looks  
23 like they took the right steps for the right reasons.

24 DAVID LOCHBAUM: Senator, even at our  
25 plants in this country, when you lose your available

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1 inventory of fresh water in a tank, provisions do use  
2 river water or sea water in existing systems, so it's  
3 not exactly the situation you want to get to, but it's  
4 there if you need it.

5 SENATOR MURKOWSKI: Does it -- does the  
6 salt have an impact, do we know, on the spent fuel  
7 pools?

8 DAVID LOCHBAUM: I think that's the same  
9 concern that it would be in the reactor. It could  
10 impede the cooling.

11 SENATOR MURKOWSKI: But, again, the  
12 concern about any corrosive effect?

13 DAVID LOCHBAUM: It is -- there are  
14 stainless steel liners that help retard, more  
15 resistant to corrosion than other forms of steel. I  
16 think the problem for the pools would be the  
17 instrumentation and the other controls over the water  
18 flows to the reactor.

19 But we've heard in the last couple of days  
20 they've restored fresh water supplies to the pools, so  
21 they'll be diluting the salinity of the water in those  
22 pools. So whatever damage has been done, it's getting  
23 better from now on as long as they're able to sustain  
24 that progress.

25 SENATOR MURKOWSKI: Thanks, Mr. Chairman.

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1 MALE PARTICIPANT: Senator Franken?

2 SENATOR FRANKEN: Yes, a couple -- I have  
3 a couple of areas I want to get into. I'm getting  
4 some idea about how we approach assessing all the  
5 safety factors of a nuclear plant when we site it.

6 Mr. Pietrangelo, you spoke in some good  
7 detail about that, but when I asked Mr. Borchardt of  
8 the Nuclear Regulatory Commission how the Japanese  
9 system compared to ours, he said he didn't know.

10 Now, I think that we are in -- you know,  
11 Americans are going to get some kind of -- take some  
12 kind of comfort that our system, when everything you  
13 described actually works, it would be nice to know how  
14 our system compares with the Japanese system, because  
15 what we're seeing in Japan didn't work.

16 So, Mr. Lochbaum, do you -- I find this  
17 disturbing that this far into this crisis that the  
18 Nuclear Regulatory Commission doesn't know how to  
19 compare the Japanese system of siting and looking into  
20 the safety versus ours. Do you have any thoughts on  
21 that?

22 DAVID LOCHBAUM: Well, I'm in the unusual  
23 role of defending the NRC. That's typically not my  
24 role, but I think the NRC has 4,000 people. They have  
25 an international programs unit that probably knows

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1 those answers, but to Mr. Borchardt's defense, he  
2 doesn't know the combined knowledge of those 4,000  
3 people.

4 I would be willing to bet this week's  
5 paycheck that the NRC has that answer and could get it  
6 fairly quickly, so the situation is not quite as bad  
7 as it may look on the surface.

8 SENATOR FRANKEN: Okay.

9 DAVID LOCHBAUM: Senator, I think going  
10 forward you're absolutely right. We have to  
11 understand not only the differences in the regulatory  
12 system but from an industry perspective what  
13 (Inaudible), what operational practices they put  
14 (Inaudible) for events like this and compare it to  
15 what we have in place and then assess the gaps, if you  
16 will, to see what we would have been (inaudible)  
17 additional things.

18 SENATOR FRANKEN: Yes, because, you know,  
19 it's hard to take a lot of comfort in what we do if  
20 you compare it to what they do, because obviously what  
21 they did wasn't sufficient, right?

22 Okay, now, I quoted a *Washington Post*  
23 editorial by Matthew Bunn. Did you read that?

24 DAVID LOCHBAUM: I did, sir.

25 SENATOR FRANKEN: And did you read that,

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1 Mr. Lochbaum?

2 TONY PIETRANGELO: Yes.

3 SENATOR FRANKEN: Okay, and in it he wrote  
4 that despite the recommendations by the National  
5 Academies that spent fuel rods be stored in pools  
6 onsite, that they should be arranged, place old cool  
7 fuel rods next to newer, hotter fuel rods to prevent  
8 hot spots and fires in the event that the pools lost  
9 enough water to uncover, to cover the rod, that  
10 despite that recommendation in 2006 they -- "No such  
11 action" -- this is a quote. "No such action had been  
12 taken, either in the U.S. or Japan." Mr. Borchardt  
13 said they had been.

14 So, now, I ask two questions. One, Dr.  
15 Bunn is an expert at Harvard. Is he wrong? Is Mr.  
16 Borchardt wrong, and is this a good recommendation?

17 TONY PIETRANGELO: Mr. Bunn is wrong.  
18 There was a correction, and it was hard to see, about  
19 two or three days later in the editorial section of  
20 the *Post* saying that there have been measures taken to  
21 address some of the concerns he raised in his op ed.

22 We refer to it as a checkerboard pattern  
23 of the fuel. That's precisely what he was talking  
24 about, and, second, as part of the post-9/11 measures  
25 to get additional capability to refill the pools in

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1 the event of fires, explosions, or any other event  
2 that could lose inventory in the pool.

3 SENATOR FRANKEN: Okay. Well, that  
4 answers that. I have 20 seconds left, but I can ask  
5 the question, and then you can take whatever time you  
6 want to answer it.

7 Evacuation. We kind of are seeing kind of  
8 a lot of controversy about how much area around the  
9 reactor in Fukushima is a safe area, and we see that  
10 if you take a 50-mile radius from some of our reactors  
11 you have tens and tens of millions of people around  
12 them. Do we have adequate evacuation plans in case  
13 something like this would happen in the United States?

14 TONY PIETRANGELO: Our evacuation plans  
15 are based on studies done in the 1970s by both the NRC  
16 and other agencies. The ten-mile emergency planning  
17 zone or ATZ, as we refer to it, was determined to be  
18 sufficient to protect public health and safety.

19 There's also a 50-mile zone that looks at  
20 the ingestion path, any contamination of food  
21 products, dairy products, and so forth that can be  
22 sampled. I'd also note there's provisions to increase  
23 the evacuation or protective action recommendations,  
24 be it evacuation or sheltering beyond the 10-mile ATZ.

25 Every two years each plant conducts an

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1 emergency planning exercise that's overseen by both  
2 the Nuclear Regulatory Commission and FEMA, and in  
3 addition we practice those drills quarterly onsite.  
4 So we think we've got the gold standard of emergency  
5 planning.

6 It was a difficult situation for the NRC  
7 two weeks ago, when we were in the middle of this  
8 event, when they were looking at three cores and four  
9 spent fuel pools and limited and conflicting  
10 information, and I think they do what they always do  
11 is take a -- when there's a lot of uncertainty on the  
12 ground, they make a very conservative decision. I  
13 think we've seen that over the years with how the  
14 agency regulates, and that's what happened here.

15 SENATOR FRANKEN: Mr. Lochbaum, do you  
16 have any opinion about the state of our evacuation  
17 plans?

18 DAVID LOCHBAUM: I think our plans are as  
19 good as those in Japan on March 10.

20 SENATOR FRANKEN: I don't know what that  
21 means.

22 DAVID LOCHBAUM: It means we would be  
23 equally in dire straits if we were faced with that kind  
24 of disaster. We have good plans on paper. If you put  
25 them to practice, I think we're going to show that

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1 we're going to come up short.

2 TONY PIETRANGELO: I would also add,  
3 Senator, that the Japanese I think responded exactly  
4 as we would with our emergency plan. I think at 12  
5 and a half miles (inaudible) actions to protect we  
6 would take to protect public health and safety in our  
7 country, the state and local officials acting on  
8 recommendations from the plant operator in the event  
9 and overseen by the NRC, who makes that decision.

10 SENATOR FRANKEN: But Fukushima is not as  
11 dense an area as many of -- I mean, Indian Point was  
12 brought up as an example. Let's say you live within -  
13 - I mean, there are millions and millions and millions  
14 of people living within 50 miles of that plant.

15 Let's say you're a parent. Your kid's at  
16 school going the opposite way of exiting, getting away  
17 from there. Mr. Lochbaum, do you think that we need  
18 to improve on what we're doing?

19 DAVID LOCHBAUM: Well, around Indian  
20 Point, for example, the local and state officials have  
21 said they can't get their people out if they need to.

22 The federal government overruled what the local and  
23 state government said and said, "Well, it would happen  
24 anyway that some miracle would occur and the people  
25 would not be harmed."

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1 I tend to trust the local and state  
2 officials. They deal with these issues on a daily  
3 basis. If in their best judgment they can't protect  
4 those people, I don't know why anybody else should  
5 believe that we can.

6 SENATOR FRANKEN: Thank you. I'm way over  
7 my time. Thank you, gentlemen.

8 MALE PARTICIPANT: Senator Murkowski?

9 SENATOR MURKOWSKI: Very quickly --  
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(CONFERENCE CALL INITIATED)

MIKE WEBER: I was going to go through and summarize from yesterday's meeting.

OPERATOR: There are currently eight participants in your conference. The following people are in the conference.

JOE O'HARA: Joe O'Hara, Headquarters Operations Officer.

JIM LYNCH: Jim Lynch, INPO.

DAN RICH: Dan Rich, NRC Region II.

TOM VAVOSO: Tom Vavoso, Naval Reactors.

GREG NIELSEN: Greg Nielsen and others, INPO.

LT. COLONEL GADDIS: Lieutenant Colonel Craig Gaddis, Joint Staff J4.

SAUL GOLLUM (phonetic): Saul Gollum, DoE Office of Nuclear Energy.

OPERATOR: Roster playback is complete.

MIKE WEBER: Good morning, everyone. This is Mike Weber here at the NRC. Thanks for joining us

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1 for our call.

2 I understand that we haven't had these  
3 calls since last Friday. There was some discussion  
4 about given other forums that are occurring that  
5 perhaps this was no longer necessary.

6 I understand Bill Borchardt and Bill  
7 Webster had a discussion over the weekend, and the  
8 sentiment was it's probably a good idea, especially  
9 given the current state of play, that we remain  
10 connected well through this call, just so we're  
11 sharing information.

12 We may find in time that it is not  
13 necessary, and therefore we would no longer have these  
14 calls, but for the foreseeable future we thought we  
15 would have these at least on a daily basis.

16 We are aware that, of course, there is a  
17 technical call that occurs daily between the NRC,  
18 Naval Reactors, DOE, INPO, and other parts of the  
19 industry at 11:00, so we want to keep this at a higher  
20 level, talking about coordination and cooperation and  
21 ensuring that you know what we know and we know what  
22 you know kind of thing in the spirit of cooperation.

23 So, I think you all heard the roll call in  
24 terms of who was on the call. We don't need to replay  
25 that. I would say we just spoke about half an hour

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1 ago with our team in Japan.

2 You may be aware that Chairman Jaczko went  
3 to Japan over the weekend, had a high-level meeting, a  
4 whole series of meetings with this counterparts  
5 throughout the weekend, thought it was a very  
6 productive exchange.

7 The feedback that we have is that -- I  
8 don't know what that is. Okay. The feedback we have  
9 is that Al Hochevar has been connected through those  
10 meetings, so hopefully from INPO's perspective you're  
11 getting the access, the contacts that you need with  
12 TEPCO and with Japanese officials and other  
13 representatives of the U.S. government. If not, let's  
14 use this call to flag those concerns or challenges,  
15 and then we can see what we can do to work offline to  
16 resolve them.

17 Bill Borchardt is down on the Hill this  
18 morning testifying before one of the committees, along  
19 with, I guess, Acting Assistant Secretary Pete Lyon,  
20 so, Saul, you're probably aware of that.

21 SAUL GOLLUM: Yes, that's correct.

22 MIKE WEBER: Supporting Pete in that role.

23 There are additional hearings tomorrow. I know I'll  
24 be at one on the House side. The House Infrastructure  
25 and Transportation Subcommittee, and we have a couple

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1 Appropriations Committee hearings tomorrow, so this  
2 remains very much of interest both within our Congress  
3 and certainly within Japan and among the federal  
4 agencies.

5 I have yet to hear confirmation about who  
6 is taking the lead for the U.S. government. I know  
7 the Chairman was working that, and I suspect that  
8 throughout this past weekend, especially with his trip  
9 to Japan, he's probably made some progress on that  
10 front, but I have to catch up with him just as soon as  
11 he's back in country so we can get the latest update  
12 from him.

13 I do know that there was a group from J4  
14 that I think was originally invited to Japan, and then  
15 there was some communication problem, and the latest  
16 we understand from Chuck is that there is very much a  
17 desire for that team from J4 to deploy to the embassy  
18 there in Tokyo, so I think that's now working I  
19 understand from our folks in Japan.

20 TOM VAVOSO: This is Vavoso with Naval  
21 Reactors. Is there a name of an individual that's the  
22 point of contact for the J4 group?

23 MIKE WEBER: Lieutenant Colonel, can you  
24 advise on that?

25 LT. COLONEL GADDIS:: Yes, this is Colonel

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1 Gaddis here. Chuck briefed me on everything he could  
2 with respect to this telecom. We did not specifically  
3 talk about that. If you let me pop on mute here  
4 again, I will give him a call offline and see  
5 specifically who that was.

6 MIKE WEBER: Okay. Thanks.

7 LT. COLONEL GADDIS: Do we have Captain  
8 Capria (phonetic) from U.S. Forces Japan on the line?

9 MIKE WEBER: I didn't hear, Tom, that we  
10 had USFJ on the line.

11 LT. COLONEL GADDIS: I didn't, either, but  
12 I just talked to him a few minutes ago. He was going  
13 to call in.

14 MIKE WEBER: Okay.

15 LT. COLONEL GADDIS: So I'm not sure what  
16 happened.

17 MIKE WEBER: Okay. Tom, do you have  
18 anything from Naval Reactors that you want to bring up  
19 with respect to roles and leads?

20 TOM VAVOSO: No, other than I guess the  
21 way I see it as of this point is from a lead technical  
22 role in supporting Japan. I'd say NRC is in the set  
23 for now.

24 MIKE WEBER: Right.

25 TOM VAVOSO: So someone else is named,

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1 right?

2 MIKE WEBER: And we're working closely, of  
3 course, with you and also with DOE. We know that the  
4 Secretary has been forwarding various recommendations,  
5 and so we're working on those recommendations,  
6 coordinating them with our team here to get to the  
7 team in Japan so that they can be presented to the  
8 Japanese counterparts in a focused way.

9 TOM VAVOSO: Okay.

10 MALE PARTICIPANT: I think things are a  
11 little confused. You had told them previously that a  
12 J4 team was going to deploy to Japan.

13 MIKE WEBER: INPO, from your perspective,  
14 any updates on industry support structures  
15 (inaudible)?

16 GREG NIELSEN: We don't have much to  
17 update on any changes lately. We do have a structure  
18 from the industry support team that's fully manned at  
19 day shift. That includes, I believe it's six  
20 individuals from the industry support structure. That  
21 includes -- well, Randy, why don't you (inaudible) the  
22 people involved?

23 RANDY TROPASSO: Yes. Well, we have people  
24 from Bechtel, Arriva, Babcock, GE, Westinghouse, and  
25 Exelon on the team.

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1 GREG NIELSEN: So they're here at INPO,  
2 and as requests come in, they're dealing with them in  
3 real time, a real-time fashion.

4 MIKE WEBER: Sounds like a good group, and  
5 you also have Al in Tokyo. Has he been supplemented  
6 with additional staff now?

7 GREG NIELSEN: He has not yet, although we  
8 are trying to get some of these vendors who are in  
9 Japan to also staff up his position and just provide  
10 support. We're looking for Japanese speakers to work  
11 with Al. He's got an -- he's got an office right now,  
12 though it's not configured, doesn't have a phone or  
13 computer capabilities in that, so there are some  
14 logistics issue.

15 The other thing is he's working at the  
16 embassy and does not have use of his computer or a  
17 cell phone in the embassy, since he's a civilian.  
18 That's a logistics issue for him, but we're working  
19 around it.

20 MIKE WEBER: Okay. Is somebody working on  
21 that there in the embassy?

22 GREG NIELSEN: I can't answer that.

23 MALE PARTICIPANT: He's supposed to have  
24 an office setup with computer and phone access  
25 tomorrow.

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1 GREG NIELSEN: Okay, so it sounds like  
2 yes.

3 MIKE WEBER: Okay. Good. In terms of his  
4 access, is he getting the access that he needs?

5 GREG NIELSEN: The answer is yes.

6 MIKE WEBER: Okay. Great. So he's been  
7 in these discussions with the cabinet-level officials?

8 GREG NIELSEN: I believe the answer is  
9 yes. He is the source of the requests that we have  
10 for things to work on. If he says, "We need this,"  
11 then that's what INPO is working on, so we're taking  
12 that as an -- we're using him to authenticate the  
13 requests that we're getting.

14 MIKE WEBER: Okay.

15 RON CRAWFORD: We have Al on another phone  
16 call right now concurrently, and we've been getting  
17 updates on priorities and status as we speak.

18 MIKE WEBER: Great.

19 GREG NIELSEN: Who was that speaking?

20 RON CRAWFORD: That was Ron Crawford. I'm  
21 the current INPO Emergency Director for the ERC.

22 MIKE WEBER: Sounds like you're keeping  
23 him up late. Goes with the territory, right?

24 RON CRAWFORD: Yes.

25 MIKE WEBER: Anything else on

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1 organizational issues, roles and responsibilities?

2 GREG NIELSEN: I'm looking around the  
3 room. I think we covered the waterfront.

4 MIKE WEBER: Saul, anything from your  
5 perspective?

6 SAUL GOLLUM: Just the incredible logistic  
7 challenge we have, because we've got probably six  
8 different sources of actions and things like that.

9 We've got direct lines with the EOC and  
10 policy working group here and the Secretary and his  
11 science team and the NE team and our labs and things  
12 coming in from ad hoc sources like Pere Peterson, and  
13 we've got the linkages with NRC and industry and the  
14 embassy and the DART team.

15 I think we really need this federal agency  
16 lead to kind of establish what the right protocol is  
17 going to be for action, dissemination, statusing, and  
18 tracking before we can get our handle on this whole  
19 big mess.

20 MIKE WEBER: Well, I think for the  
21 foreseeable future continue to channel those  
22 recommendations, advice, information through our team  
23 in Japan, which you're participating in, so that we  
24 can provide that focused set of recommendations back  
25 to the Japanese counterparts.

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1 SAUL GOLLUM: Yes, I think that makes the  
2 most sense. It's just that we've got so many  
3 different things going on in so many different areas  
4 right now, it's hard to keep track of who's doing what  
5 and what the status is.

6 MIKE WEBER: Yes.

7 TOM VAVOSO: Is there one individual  
8 that's got that as an assignment on the Japan team?

9 MIKE WEBER: You're saying among the NRC  
10 folks?

11 TOM VAVOSO: Yes.

12 MIKE WEBER: Well, it all comes together  
13 under Chuck Casto, so.

14 TOM VAVOSO: Well, right, but I suppose  
15 you don't want him to get every phone call.

16 MIKE WEBER: Yes. I don't have an  
17 identity of anybody else who is pulling that together.

18 I suspect, you know, it depends whether it's day  
19 shift, night shift. We have a person that works the  
20 back shift.

21 TOM VAVOSO: I think it would be helpful  
22 to have a person identified or a contact point around  
23 the clock. For example, I was hoping to get Captain  
24 Capria on the phone, because he brought something up  
25 this morning that he's working on UAV support and is

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1 looking for the technical input on what information is  
2 desired so that the range of UAV capabilities can be  
3 assessed to determine what's the right solution. I  
4 think that needs to come from Japan via your group in  
5 your group there

6 MIKE WEBER: Right.

7 TOM VAVOSO: So he needs somebody that he  
8 can call to go make that request for information so  
9 they can supply the right solution.

10 SAL: Tom, this is Sal. I'm sure it's  
11 safe to say that we've had, you know, three to a dozen  
12 similar requests related to UAV support, and I'm sure  
13 it's not all coming together in the right way.

14 TOM VAVOSO: That's the thing I think this  
15 group can work on is to try to get it to come together  
16 in the right way, set up the protocol to coordinate  
17 and disposition these things. It doesn't have to be  
18 this phone call. It's probably best if it's operated  
19 out of one or two individuals out of the Japan group.

20 MIKE WEBER: Okay. Well, we'll pursue  
21 that. This is NRC. We'll pursue that back with the  
22 team in Japan. I would say that the conference room  
23 that they're in has a phone number.

24 I can give you that phone number if you're  
25 looking for a point of contact. They're probably not

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1 there right now, or they may be one person there  
2 because of the time difference, but would it be  
3 helpful to have that phone number?

4 TOM VAVOSO: Sure, as a stop gap for now.

5 MIKE WEBER: Yes, it's (b)(6)

6 (b)(6) I'll repeat that just so you can check. (b)(6)

7 (b)(6) and that's the communication hub  
8 that our team in Japan is operating out of there at  
9 the embassy.

10 Okay, so let's go to INPO for the report  
11 on status of material requests.

12 RICK NIELSEN: Good. This is Rick  
13 Nielsen. We're going to cover this in three segments.

14 I sent to the NRC, and maybe only a few of you got  
15 this, but about a half-hour ago I sent a list of the  
16 things we're working on, so I'm going to cover three  
17 things and then turn it over to Randy Tropasso, who  
18 will mention four items, and then we've got three  
19 technical items.

20 The first item I'm going to mention is we  
21 got a request for radiation monitors, survey meters,  
22 and friskers. We're handling that on a donation  
23 basis, and these things are pretty much ready to ship,  
24 and we're working to get government transportation on  
25 that. I think we're making the right progress we need

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1 to on that.

2 Second thing is anti-contamination  
3 clothing, respiration, and other materials. These are  
4 things that are going to be obtained commercially, and  
5 there is a funding question that we have outstanding  
6 on this. Before we take further action, we need that.

7 Then the last item is on gamma cameras.  
8 There was a request for information about what is  
9 available. We provided that information to Tokyo to  
10 Al Hochevar, and we're waiting on further instructions  
11 for that.

12 The only questions about -- oh, let me  
13 mention one thing about materials. Just minutes  
14 before this meeting we got a question from NRC about  
15 the status of quite a number of different units for  
16 these things.

17 That was different from the request we  
18 were working on, although as similar types of things  
19 that we're working on, so we'll need to resolve that  
20 with the NRC, and we'll do that separately from this  
21 phone call.

22 Any questions before I turn this over to  
23 Randy?

24 TOM VAVOSO: This is Tom Vavoso at NR.  
25 Did you -- I just saw some recent email traffic on

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1 hoses and other information. Is that what you're  
2 referring to?

3 RICK NIELSEN: No, it's not, Tom. That,  
4 by the way, was turned off. The Japanese are going to  
5 deal with that, so that came directly from Al  
6 Hochevar.

7 We had been working on sourcing that  
8 material, and then Al provided this morning the  
9 information that the Japanese were going to do that  
10 themselves.

11 TOM VAVOSO: Okay.

12 RICK NIELSEN: So no further action there.

13 Okay, Randy?

14 RANDY TROPASSO: Okay, the industry  
15 support team is working on providing options to be  
16 used during the mitigation and stabilization phases of  
17 this response, and yesterday we gave options for  
18 portable reactor radioactive water processing units,  
19 so there were several that were sent for them to  
20 consider.

21 We are working on two other items, one,  
22 our tools and technology available for moving fuel.  
23 That's due to Japan tomorrow, and we're on track for  
24 providing that. We're also working on shielding  
25 options at both the room level and the structure

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1 level, and that's also working right now to be  
2 provided tomorrow.

3 The other item we're working on is  
4 gathering a list of experienced personnel for cleanup  
5 efforts, experienced at both TMI II and Chernobyl.  
6 We're working that to be provided, as well. That's  
7 the high-level items that the industry support team is  
8 working on.

9 RICK NIELSEN: Two other things I'll  
10 mention, too, that are roughly related to that is we  
11 got a request in for a commercial heat exchanger  
12 system that can be used to cool the spent fuel pool,  
13 and we'll be looking at that as a commercial  
14 acquisition and just providing the specifications that  
15 are available.

16 The final thing is Westinghouse is looking  
17 at acquiring special UAVs. These are pizza pie pan-  
18 sized helicopters that could be used around the spent  
19 fuel pool areas. They've sourced those, and they've  
20 been in contact.

21 By the way, Sal, with Dr. Robin Murphy,  
22 who is a specialist in this area, she works out of  
23 Texas A&M and is the industry probably expert on  
24 robots, but --

25 MALE PARTICIPANT: Yes, our team is tied

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1 in with Robin.

2 RICK NIELSEN: Okay, good. So they've got  
3 some that are ready to ship, and they don't know  
4 whether to go commercial or government transport with  
5 that, so we need some advice on that at some point.

6 Then, finally, we'll turn over to the  
7 technical group. They've got three things to mention.

8 CARL LARSEN: My name is Carl Larsen. I'm  
9 on ship for the technical group today. Our technical  
10 support group has been working with the NRC to produce  
11 a technical document that's advice.

12 We have several people from the utilities,  
13 from BWRs that are experts in severe accident  
14 management. That guidance was sent to Japan a few  
15 days ago, and it's meant to be a living document, so  
16 we're updating that based on what our current  
17 conditions are.

18 We're looking at doing Rev 1, and at the  
19 1100 phone call today we will be discussing the  
20 technical aspects of that, but basically there's two.

21 One has to do with injection rate to the vessels, and  
22 another one has to do with what our best assessment of  
23 their current conditions are.

24 In addition, our third task that we're  
25 working on is -- actually, GE-Hitachi is covering this

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1 for us, and it has to do with some details of the  
2 nitrogen purge that they want to start tomorrow, and I  
3 think that best summarizes it.

4 TOM VAVOSO: This is Tom Vavoso, NR. My  
5 impression how that's been going is that support has  
6 been excellent, hanging around the periphery and  
7 seeing what's been coming in.

8 RICK NIELSEN: Thanks, Tom. That  
9 concludes what INPO is working on.

10 MIKE WEBER: Thanks. That's helpful. Do  
11 we have questions here? No. I think that's  
12 consistent with our understanding.

13 We had heard that inerting is now planned  
14 for not tomorrow but Thursday, the 31st.

15 MALE PARTICIPANT: Unit 1, correct?

16 MIKE WEBER: Unit 1.

17 MALE PARTICIPANT: Thank you.

18 MIKE WEBER: All right. We also were told  
19 that Shaw Group is providing technical support now.  
20 They've signed a contract with TEPCO. Are you aware  
21 of that?

22 RICK NIELSEN: We were not aware of that.

23 MIKE WEBER: We understand that their  
24 contract includes cleanup of debris, as well as  
25 providing more sustainable core cooling.

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1 RICK NIELSEN: Good.

2 MIKE WEBER: So if you've got contact with  
3 Shaw, you might reach out and understand what they're  
4 covering and how the results are complementary.

5 MALE PARTICIPANT: Yes, we added Shaw to  
6 our steering committee to the industry support team,  
7 and we have a call here in about a half-hour, so I'll  
8 bring it up at that meeting.

9 MIKE WEBER: Okay.

10 MALE PARTICIPANT: Very good. Thank you.

11 MIKE WEBER: Some other things that I  
12 would comment on, just want to make certain that  
13 there's awareness of these. We understand that the  
14 Japanese have requested technical support from Pacific  
15 Northwest Labs. Are you aware of that, Saul?

16 SAUL GOLLUM: Yes, I've seen that specific  
17 request, and we're trying to get the right people  
18 lined up to head over to Japan.

19 MIKE WEBER: Okay. They're actually  
20 asking that they be added to the team so that they can  
21 provide that kind of support, especially with respect  
22 to the spent fuel and waste issues.

23 I guess we had seen discussion about the  
24 need for shielding assistance. Is industry doing  
25 anything related to that?

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1 MALE PARTICIPANT: Well, the shielding is  
2 -- there were two action items that came out. One  
3 went to the industry support team, which was shielding  
4 on a room structure level. That one is due tomorrow.  
5 The other one was for personnel shielding, and that  
6 action was closed several days ago.

7 MIKE WEBER: Okay.

8 TOM VAVOSO: I saw a vehicle shielding one  
9 in a string of emails.

10 RICK NIELSEN: Mike, one question that we  
11 had here at INPO was did the request for that  
12 technical support, Pacific Northwest Labs, did that  
13 come from the government of Japan? How are these  
14 requests coming in? That's a curiosity factor, but  
15 when it comes in to us, it's important to know where  
16 it came from just so we could authenticate it.

17 MIKE WEBER: That came from the Special  
18 Advisor to the Prime Minister, Mr. Hasano (phonetic),  
19 and it was communicated to our team there in Japan at  
20 one of these high-level meetings.

21 RICK NIELSEN: Okay, good. Thank you.

22 MIKE WEBER: Yes. Anything else from  
23 today's meeting, Tom, in terms of assistance requests?

24 TOM VAVOSO: One thing that Captain Capria  
25 reported on this morning was that the two Navy barges

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1 with water supplies have been outfitted and tested  
2 satisfactorily, and they will commence a ten-hour  
3 journey the site on Wednesday Japan time. I don't  
4 have an exact departure time.

5 MIKE WEBER: Okay, but they would be  
6 expected to arrive onsite on Wednesday?

7 TOM VAVOSO: On Wednesday.

8 MIKE WEBER: Tomorrow?

9 TOM VAVOSO: Correct.

10 MIKE WEBER: Great. Thanks for that  
11 update, Tom.

12 All right. Unless there's further  
13 discussion about material requests, INPO, team report  
14 on ongoing work on technical support, did you pull  
15 that into your material request discussion, or is that  
16 something you're treating separately?

17 RICK NIELSEN: We folded that in.

18 MIKE WEBER: Yes, that's what I thought,  
19 but I just wanted to make certain. I guess there was  
20 a point on there about a DoE technical point of  
21 contact for INPO. Are you looking for a technical  
22 point of contact?

23 TOM VAVOSO: Yes, please.

24 MIKE WEBER: Saul, can you advise on that?

25 SAUL GOLLUM: Well, Dr. Lyons and Kelley

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1 want me to be the interface on this call so that I can  
2 get all the right situational awareness and action  
3 items to the balance of our team.

4 In terms of a single point of contact  
5 technical request, I don't know that that's practical.

6 I think it would have to be on a subject-by-subject  
7 basis, but you can certainly funnel those activities  
8 through me.

9 MALE PARTICIPANT: Saul, could we get your  
10 phone number? We have your email address.

11 SAUL GOLLUM: Sure, my cell number is (b)(6)

(b)(6)

12 and I'm never at my office.

13 MALE PARTICIPANT: Okay. Understand.

14 (b)(6)

15 SAUL GOLLUM: Correct.

16 MALE PARTICIPANT: Okay, good. Thank you.

17 MIKE WEBER: And INPO, you have contacts  
18 with Naval Reactors, right, so --

19 RICK NIELSEN: The answer is no, we don't  
20 have Naval Reactors contacts.

21 MIKE WEBER: Do you need one, want one?

22 RICK NIELSEN: Yes, please.

23 MIKE WEBER: Tom, do you want to handle  
24 that?

25 TOM VAVOSO: That's fine. Email is

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1 (b)(6)

2 RICK NIELSEN: Okay, that's (b)(6)

3 -- that's (b)(6)

4 TOM VAVOSO: Right, and cell number is

5 (b)(6) and so far we have around-the-clock  
6 presence in the RNC Operations Center, so --

7 MIKE WEBER: And we're glad to have them.

8 TOM VAVOSO: That's another way to get  
9 hold of somebody.

10 RICK NIELSEN: And you can get our N1.  
11 The watch stander that we have in the support group is  
12 (b)(6) and we're staffed around-the-clock, as  
13 well.

14 MIKE WEBER: Well, great. Anything else  
15 on that topic from here? No.

16 In terms of barriers and challenges, are  
17 there any other than trying to decide who's got the  
18 lead and who's going to pay?

19 RICK NIELSEN: That's one of them from  
20 INPO. We're actually breaking through that with a lot  
21 of volunteer-donated items. The transportation  
22 becomes the next issue. That's kind of a pay thing,  
23 but it's come down to what is the best way that we can  
24 arrange the military transportation.

25 MIKE WEBER: I think from our prior

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1 conversation the military's request is that we first  
2 exhaust civilian transport means and only rely on  
3 military transport as a last result, resort.

4 RICK NIELSEN: Someone just mentioned that  
5 from the Japan standpoint, from Al Hochevar, his  
6 understanding is that different than that, so we'll  
7 try to resolve where we're getting that information  
8 from, but if that's the official stance, we'll work  
9 with that.

10 MALE PARTICIPANT: Yes, you made that very  
11 clear to us last week, so we'll move on that point.

12 LT. COLONEL GADDIS: Lieutenant Colonel  
13 Gaddis here from J4. Just if I can add a little point  
14 of clarification here, you know, it's hard to say  
15 exactly where the lines are drawn on transportation,  
16 but I think in general if it was government equipment  
17 that you're looking to move, sometimes in many cases  
18 commercial trans may actually be quicker if you have  
19 the organization to purchase commercial transportation  
20 through wherever, whatever the shipping entity is.

21 If it's donated goods or government  
22 material that can't go commercial for various reasons,  
23 then there is an avenue for it to go military. There  
24 is some procedures involved there. You know, we'd  
25 have to get PAYCOM involved. PAYCOM has a pot of

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1 money to pay for airlift, and we would just have to  
2 coordinate it.

3 Where you run into problems is if you  
4 cannot fill up a complete aircraft, then it becomes  
5 hard to justify a dedicated airlift mission, so I  
6 would recommend that -- I've heard various discussions  
7 of different types of equipment lists.

8 If you could possibly consolidate your  
9 lists, determine what you want the military to move,  
10 and then come back with some basic data in terms of  
11 weight and dimension so that some semblance of how  
12 much stuff you have to be airlifted can be gained,  
13 then we can get further down the road to determining  
14 whether a military solution is possible.

15 I think in a lot of cases, unless you have  
16 a bunch of stuff coming from one location, commercial  
17 transportation is going to be more viable, and I don't  
18 know what kind of internal processes you have to ship  
19 stuff from your organizations.

20 If I could break over to the previous  
21 discussion J4 personnel going to Japan, I talked to  
22 Commander Goode. In fact, I believe what he meant  
23 earlier was that U.S. Forces Japan is the military  
24 representative to the government of Japan in the  
25 country. There will be nobody from J4, per se, going

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1 to Japan, so we think that we've got the military  
2 representation there and the country covered.

3 One final update I'd like to give the  
4 group is that PAYCOM has requested the deployment of a  
5 Chemical-Biological Incident Response Force, and this  
6 is a radiological biomedical survey team. In total,  
7 this is about 185 passengers and several C-17 loads of  
8 equipment.

9 From what I've been able to read on the  
10 mission capability statements for these units -- you  
11 may very well be more familiar than I am -- it's  
12 mainly detection and decontamination is the mission of  
13 these folks.

14 They're being called forward to Japan just  
15 in a just-in-case mode, and they're being forward  
16 deployed to a location so that if an incident or a  
17 situation develops where they were required that they  
18 would be in-country. Timing for the movement of this  
19 group of people will be later on toward the end of  
20 this week. Over.

21 MIKE WEBER: Together, Colonel.

22 TOM VAVOSO: What did you call that group?

23 This is Vavoso with NR.

24 LT. COLONEL GADDIS: Yes, the title it  
25 goes by is Chemical-Biological Incident Response

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1 Force.

2 TOM VAVOSO: Okay.

3 RICK NIELSEN: This is Rick Nielsen with  
4 INPO again. We are working. I just got some  
5 clarification here. Al Hochevar in Japan is working  
6 with PAYCOM. Is that what it's called?

7 LT. COLONEL GADDIS: That is correct.

8 RICK NIELSEN: I'm not sure if I'm  
9 pronouncing that acronym correctly, but it sounds  
10 right, anyway.

11 LT. COLONEL GADDIS: (Inaudible) Command.

12 RICK NIELSEN: Okay, good. So the  
13 (indiscernible, possibly radiacs) that are -- that we  
14 have ready for shipping, these are used radiacs in  
15 many cases, so getting commercial transport might be a  
16 little dicey.

17 The military transport, we believe that it  
18 would probably fill a (indiscernible, possibly solan)  
19 airplane with the numbers that we're talking about,  
20 and it might also be beneficial to ship these UAVs  
21 that we were talking about earlier, the several UAVs  
22 that Westinghouse is working on. So those are  
23 options, but we also understand priorities and the  
24 mission that the military has now.

25 LT. COLONEL GADDIS: Well, just to make

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1 sure I'm not misunderstood, this mission has a very  
2 high priority, so priority is not really a problem.  
3 It's just the functionality of being able to make the  
4 use for full aircraft.

5 We'll have to do the logistics work to get  
6 the details on the equipment you're referring to so  
7 that we can make sure that the military aircraft is  
8 the right solution, and it sounds like these things  
9 may have some radiological components.

10 RICK NIELSEN: Correct.

11 LT. COLONEL GADDIS: Yes, and then we'll  
12 have to -- we'll have to cover the haz mat issues, and  
13 we have procedures for that, but, once again, this is  
14 the planning that we'd have to do. I would -- I can  
15 be your initial contact to help get this information  
16 squared away if you can have your logistics type  
17 personnel provide that information. Over.

18 RICK NIELSEN: Very good, Colonel. I  
19 don't know if I have your contact information. Did I  
20 write it down on the --

21 MALE PARTICIPANT: No, we don't have that.

22 RICK NIELSEN: Yes, we don't have that.  
23 Could you please give that to us?

24 LT. COLONEL GADDIS: Okay, my number is

25 (b)(6)

and the email is going to be (b)(6)

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1 (b)(6)  
2  
3

4 RICK NIELSEN: Okay, Colonel. Thanks very  
5 much. We may be in contact soon on some of this  
6 stuff. We are trying to work through Al Hochevar to  
7 try to relieve you of some of that, and that's good.

8 MALE PARTICIPANT: Colonel, could you  
9 repeat your phone number again?

10 LT. COLONEL GADDIS: Yes, it's (b)(6)

11 (b)(6)

12 MIKE WEBER: Got that. Great. Thank you.  
13 Okay, so we've got an action to designate somebody in  
14 our Japan team to serve as a point of contact for  
15 coordinating these systems requests. We'll get back  
16 to the group with contact information, name, et  
17 cetera, name. Probably multiple people serve in that  
18 capacity.

19 Other action items coming out of this  
20 call?

21 RICK NIELSEN: One thing that would be  
22 helpful to us is if there were a consolidated action  
23 list that we could see what other agencies are working  
24 on, for example, what DoE has, because one of the  
25 things we're concerned about is taking parallel paths

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1 on some of these things, because that's not very  
2 efficient, so it would help us if there was a  
3 consolidated action list.

4 MIKE WEBER: Did you see the list that  
5 came out with the notes from the call on Friday?

6 RICK NIELSEN: We saw the list that came  
7 out on Friday but not from the notes. That's the kind  
8 of list we're talking about. That was very helpful  
9 going through that list.

10 MIKE WEBER: Okay. Maybe we can maintain  
11 that list or use that as one common reference point.

12 SAL: This is Sal. I may not have seen  
13 that list, or it just may have gotten by me. I  
14 certainly agree that we need that central point of  
15 contact, hopefully as part of the lead agency, should  
16 also be the keeper of the action list.

17 MALE PARTICIPANT: Do we do that now?

18 SAL: And each of us components would have  
19 to feed into that.

20 MALE PARTICIPANT: We can get this list  
21 now. We need to also coordinate with whoever the  
22 designated key point of contact is in assembling that  
23 list.

24 MAKE PARTICIPANT: What we're considering  
25 is vetting the list to get a scrub from the team over

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1 in Japan to make sure that it's not -- it is the list  
2 of desired information and then share that with  
3 everyone on the call.

4 RICK NIELSEN: That would be a real good  
5 idea. The other aspect of that or another dimension  
6 would be to have someone from Japan on this call, as  
7 well, someone from the team over there on the call, as  
8 well.

9 TOM VAVOSO: We may need to adjust the  
10 time to accommodate them best.

11 MIKE WEBER: Or else have Al on.

12 RICK NIELSEN: So last, whatever time it  
13 was, Friday, I guess, when we had this call, one of  
14 the thoughts was holding the call at 1900 to  
15 accommodate Japan. Just throw that back on the table.

16 That's inconvenient for a lot of people here, but it  
17 certainly would be more convenient for those who are  
18 trying to serve over there.

19 MIKE WEBER: We'll take that here at NRC  
20 and work that with our team and see if we can  
21 establish that as a standing time for the call.

22 MALE PARTICIPANT: DoE NE supports that  
23 approach.

24 MIKE WEBER: What's that?

25 SAUL GOLLUM: DoE NE supports that 7:00

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1 approach if that's what it takes to improve  
2 communication.

3 MIKE WEBER: Okay.

4 MALE PARTICIPANT: INPO would, too.

5 MIKE WEBER: Okay. Great. Let's see if  
6 we can make it happen. Anything else we need to talk  
7 about today?

8 MALE PARTICIPANT: Nothing here.

9 RICK NIELSEN: Yes, we're good at INPO.

10 MIKE WEBER: Okay. At our next call, like  
11 this, then, would be tomorrow evening at 1900 Eastern,  
12 assuming we can establish that as a standing time with  
13 our team there in Japan.

14 MALE PARTICIPANT: Would it be worth our  
15 while to have the call at 10:00 tomorrow, same time,  
16 so that we can establish and confirm that we have it  
17 set up for 1900 tomorrow?

18 MALE PARTICIPANT: I think so.

19 MALE PARTICIPANT: It seems like an email  
20 from NRC would be good enough, a calendar item or an  
21 invite, rather, whether it's going to be at 10:00 or  
22 1900.

23 MALE PARTICIPANT: We can make that  
24 happen.

25 MIKE WEBER: Okay. Well, we thank you for

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1 your participation in the call, and we've got a couple  
2 action items we're going to take out of this, and  
3 let's keep it going, because we're providing  
4 assistance over there in Japan and appreciate all the  
5 contributions from the many people that are making it  
6 happen.

7 MALE PARTICIPANT: Thanks, Mike, and the  
8 rest of the team.

9 MALE PARTICIPANT: Thanks. Bye.

10 MIKE WEBER: Thank you.  
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5  
6 (CONFERENCE CALL INITIATED)

7 MIKE WEBER: There have to be questions.

8 MALE PARTICIPANT: What's the meaning of  
9 life, the universe, and everything?

10 MIKE WEBER: Eliot, can you take that  
11 question?

12 MALE PARTICIPANT: The shorter answer is  
13 42. You'll find it in Douglas Adams' *Hitchhiker's*  
14 *Guide to the Galaxy*.

15 MIKE WEBER: All right. Thanks for that.

16 MALE PARTICIPANT: Mike, did you say that  
17 the barges are 40 miles away?

18 MIKE WEBER: That is correct. That's what  
19 we understood. We've had conflicting reports on that.  
20 We heard yesterday that they were -- at least one was  
21 onsite, but we understand from the Navy that, no,  
22 they're 40 miles from the site, and they're just being  
23 staged there.

24 They wanted to keep them out of the hot  
25 zone, so to speak. That's not a problem. It's just

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1 making the arrangements, making certain that they  
2 function properly before they actually take them in to  
3 provide the support.

4 MALE PARTICIPANT: They're putting pumps  
5 on them and testing the pumps.

6 MIKE WEBER: Yes, our Naval Reactors  
7 colleague here says they're putting pumps on and  
8 testing the pumps.

9 Other questions?

10 DAN RICH: Hey, Mike, Dan Rich in Region  
11 II. Unit 4 primary containment status is indicated as  
12 not applicable. Is there some change there?

13 MIKE WEBER: Well, remember the core is  
14 de-fueled in Unit 4.

15 DAN RICH: Okay.

16 MIKE WEBER: So we're not focused on  
17 containment for Unit 4. The focus in Unit 4 is on the  
18 spent fuel pool.

19 DAN RICH: Okay. Got it. Thanks.

20 MIKE WEBER: Okay. All right, well, we  
21 won't keep you. The next call will be at 2000 today,  
22 and if you need us, you know where we'll be.

23 MALE PARTICIPANT: Great. Thanks, Mike.

24 MIKE WEBER: Have a great day.

25

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Hello, Chuck?

MALE PARTICIPANT: Hello?

CHUCK CASTO: Good evening. Good  
afternoon. Good morning.

MALE PARTICIPANT: Hi, Chuck, how are you?

CHUCK CASTO: I'm all right.

MALE PARTICIPANT: Good. You've got Tom  
(Inaudible) here and Jay Marshall.

CHUCK CASTO: Okay, guys.

MALE PARTICIPANT: Mike stepped away, and  
so he'll be back in the not-too-distant future, but if  
there's something that --

CHUCK CASTO: No, I usually call and give  
an update after the cabinet meeting.

MALE PARTICIPANT: Right.

CHUCK CASTO: So I just thought I'd call  
in and update you all of anything that happened with  
the cabinet meeting.

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1 MALE PARTICIPANT: Right. So, go right  
2 ahead.

3 CHUCK CASTO: Okay. Let's see. Unit 1  
4 spent fuel pool, tomorrow they'll have the cement  
5 truck ready to pump some water to Unit 1 spent fuel  
6 pool.

7 They turned the lights on in Unit 4  
8 control room today, so now they have all the control  
9 rooms lit. That doesn't mean they can get in there.  
10 It just means they're all lit.

11 MALE PARTICIPANT: They're all lit, right.

12 CHUCK CASTO: There's still like one sever  
13 or something in there or something like that, some of  
14 them, so still uninhabitable, but the lights are on.

15 MALE PARTICIPANT: Okay.

16 CHUCK CASTO: Turbine building water on  
17 Unit 1, they're still pumping to the condenser. Unit  
18 2 and 3, they're recircing back to the condensate  
19 storage tank and the moving it to the spent fuel or --  
20 shoot, moving it to the suppression pool.

21 MALE PARTICIPANT: Okay, so 2 and 3 are  
22 going back to the suppression pool, you say?

23 CHUCK CASTO: Yes. They talked about  
24 coming up with some way to recirc it back to the  
25 suppression pool and kind of close, if it's coming

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1 from the suppression pool, try to close the loop  
2 there.

3 MALE PARTICIPANT: Right.

4 CHUCK CASTO: Today they put 2 and 3 on  
5 recirc back to the suppression pool from the  
6 condensate storage tank, but they continue to confirm  
7 and monitor the trench water.

8 They did find -- I don't know what this  
9 means. I really don't. I wasn't able to probe them  
10 on this, but they said the Unit 1 trench and turbine  
11 building connection is severed.

12 That's probably from the earthquake, which  
13 means -- I presume that means that the -- you know, I  
14 think that trench is actually the discharge or intake  
15 and discharge for the sea water pumps, you know, your  
16 condenser circulating water pumps.

17 MALE PARTICIPANT: Yes. So you think  
18 that's where it's coming. That's the cooling water  
19 for the condenser.

20 CHUCK CASTO: Yes, but, you know, that's  
21 not where this water is coming from, because it's  
22 still highly radioactive, but they said on Unit 1 that  
23 that trench, its connection with the turbine building  
24 was severed.

25 I don't know what that means. Maybe that

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1 means it shifted during the earthquake, I'm presuming,  
2 but we will pursue that tomorrow, figure out what they  
3 meant by that statement.

4 As you heard probably on television, they  
5 found five samples of -- five samples. They did -- I  
6 think it was ground samples, five samples that had  
7 some plutonium in it, two spots they thought were --  
8 two of those samples were from the reactor, but it was  
9 only slightly above background.

10 MALE PARTICIPANT: And those, they  
11 confirmed that the two samples were actually from the  
12 reactor. The other three they thought were legacy  
13 samples from --

14 CHUCK CASTO: Yes, from testing or  
15 something, yes.

16 MALE PARTICIPANT: Okay.

17 CHUCK CASTO: Let's see.

18 MALE PARTICIPANT: Did you get any idea as  
19 to approximate location of the one from the reactor,  
20 proximity to the --

21 CHUCK CASTO: No, I didn't. I didn't.

22 MALE PARTICIPANT: Okay.

23 CHUCK CASTO: I wouldn't -- I don't want  
24 to guess, but we may have heard that, but I don't  
25 remember where.

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1 MALE PARTICIPANT: I was just asking for  
2 clarity's sake.

3 CHUCK CASTO: So we talked a lot tonight  
4 about shielding and structural strength of the reactor  
5 building and the heat exchanger they want to put in  
6 the spent fuel pool, you know, a lot of equipment  
7 discussion, that kind of stuff, but there really  
8 wasn't any -- we got out of there very quickly, and  
9 there wasn't really anything of much substance tonight  
10 at all.

11 MALE PARTICIPANT: Oh, okay.

12 CHUCK CASTO: So.

13 MALE PARTICIPANT: So the heat exchanger  
14 that they want to put in the fuel pool, is that in all  
15 four pools, or is that just in a particular pool?

16 CHUCK CASTO: I think they're -- I think  
17 they're thinking Unit 4's pool, but I'm not certain  
18 about that. I think it's Unit 4.

19 MALE PARTICIPANT: Okay, and --

20 CHUCK CASTO: That's the --

21 MALE PARTICIPANT: The intent is to put  
22 the heat exchanger in the pool itself with cooling  
23 water passing through outside the --

24 CHUCK CASTO: Yes, an external cooling  
25 water system.

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1 MALE PARTICIPANT: Okay.

2 CHUCK CASTO: You know, a pony system, a  
3 pony system of some kind, you know, outside, external.

4 MALE PARTICIPANT: Okay, almost like an  
5 iso-condenser arrangement of some sort.

6 CHUCK CASTO: Yes. Yes.

7 MALE PARTICIPANT: Okay.

8 CHUCK CASTO: Right.

9 MALE PARTICIPANT: In the pool. Got it.

10 MALE PARTICIPANT: A radiator or  
11 something.

12 CHUCK CASTO: Yes.

13 MALE PARTICIPANT: Here's Mike. Mike's  
14 back.

15 CHUCK CASTO: Hey, Michael.

16 MIKE WEBER: Hey, Chuck. How are you?

17 CHUCK CASTO: Good.

18 MIKE WEBER: Have a good meeting?

19 CHUCK CASTO: Yes, it was a good meeting.  
20 I mean, it was very quick tonight. There really  
21 wasn't much at all. In fact, we agreed to -- we  
22 agreed to go to every other night and moved it up to  
23 7:00 instead of 8:00.

24 MIKE WEBER: Oh.

25 CHUCK CASTO: Things are starting to move

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1 slower, so, you know, they decided that the working  
2 groups are working well, and unless they have some  
3 serious problem, the three working groups, unless they  
4 have some kind of problem, there's no use for the big  
5 dogs meeting anymore, so we're meeting -- we moved it  
6 to every other night, 7:00 p.m.

7 MIKE WEBER: That's good.

8 CHUCK CASTO: Yes. Yes.

9 MIKE WEBER: Well, I know I'm coming in on  
10 your briefing, so just proceed.

11 CHUCK CASTO: Well, I was wrapped up.  
12 Basically, what I said was tomorrow they're going to  
13 put, try to put some water in with one of the cement  
14 pumps in the Unit 1 spent fuel pool.

15 They lit up the control room on Unit 4, so  
16 that's all four control rooms have lights on. They're  
17 not inhabitable, but they have lights on.

18 Turbine building water on Unit 1 is still  
19 pumped in the condenser. Units 2 and 3, they started  
20 a recirculation system from the condensate storage  
21 tank back to the suppression pool.

22 Trench water, they said something strange.  
23 They said the Unit 1 trench, the turbine building  
24 connection has been severed. I don't really know what  
25 that means.

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1 MIKE WEBER: Okay.

2 CHUCK CASTO: I will have to pursue that  
3 tomorrow, and of the five ground samples, five ground  
4 samples they took, two of them had plutonium in them  
5 that they thought came from the reactor.

6 Let's see.

7 MIKE WEBER: You said they actually  
8 thought it came from the reactor, and that's based on  
9 isotopic?

10 CHUCK CASTO: Right, based on ratios.

11 MIKE WEBER: Okay.

12 CHUCK CASTO: Then we did the three. We  
13 talked about the shielding, spent fuel pool, and  
14 robotics working groups. They need -- they've asked  
15 us again for the heat exchanger to drop in the spent  
16 fuel pool.

17 I think that's on Unit 4, and they're  
18 waiting on Pacific Northwest. They have two -- we  
19 asked -- they asked for two people from P&L to help  
20 them with spent fuel removal, and they're waiting on  
21 that before they -- those people before they start  
22 working on the spent fuel pool.

23 They are going to spray -- I can't  
24 remember the name of that substance. It's Zeolite or  
25 something like that. I have it written down in the

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1 office.

2 MIKE WEBER: Zeolite?

3 CHUCK CASTO: Zeolite, yes. They're going  
4 to spray Zeolite on the buildings external to the  
5 plant that they can get to, and they're trying to  
6 figure out a way to spray Zeolite on the reactor  
7 buildings and turbine buildings.

8 MIKE WEBER: Now, that's to absorb the  
9 radio-nuclides?

10 CHUCK CASTO: Yes, it's to absorb cesium,  
11 I think, is the primary one.

12 MIKE WEBER: Yes.

13 CHUCK CASTO: So they, but they can't  
14 figure it out. They figure if they use a drone, it's  
15 going to take 3,000 passes to do the reactor building,  
16 so they said, "Okay, that's not feasible. We've got  
17 to figure out another way to coat the buildings."

18 MIKE WEBER: Yes. Shielded cement trucks.

19 CHUCK CASTO: There you go. They're going  
20 to need a batch plant. We're trying to reduce our  
21 footprint a little bit and try to get more precise  
22 along our questioning and the information that we need  
23 from them.

24 Things were a little bit -- things have  
25 gotten a little hectic in the last couple days with

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1 the amount of people going to meetings and the amount  
2 of questions, so we're going to try to put some  
3 discipline back in our shop and make sure that we're  
4 not just asking questions for the sake of asking  
5 questions and sending more people than we need to to  
6 meetings.

7 MIKE WEBER: Okay.

8 CHUCK CASTO: We've got way too -- we have  
9 way too many people going to meetings, and we're  
10 asking way too many questions in terms of -- you know,  
11 I know we're curious, but we have to get focused on  
12 what's important and only focus on the things that  
13 would change our strategy or change our  
14 recommendations.

15 A lot of this stuff is, you know, nice to  
16 know, but it's not -- you know, we're not here to  
17 solve this thing. It's not our reactor, so we've just  
18 got to get a little bit more focused on what we're  
19 doing. We're starting to become a real burden on  
20 them.

21 MIKE WEBER: Yes, and that's not good.  
22 That's not helping.

23 CHUCK CASTO: Yes, right, so we started  
24 the day having conversations about, but then we  
25 greatly reduced our footprint. You know, it wouldn't

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1 be bad if it was just us, but we have a lot of other  
2 organizations that are involved on this.

3 We have a lot of people inserting  
4 themselves into our meetings. So we've got other  
5 organizations in there, you know, in the meetings, and  
6 they're asking questions, we're asking questions, and  
7 so with help from the embassy today, I started  
8 cracking down on that, limiting the attendance,  
9 limiting the -- you know, not limiting the questions.

10 I don't want not say it that way. I'm just saying  
11 focused questions --

12 MIKE WEBER: Right.

13 CHUCK CASTO: -- and not just go on a  
14 fishing expedition, so we're trying to get a little  
15 bit more discipline back on our side.

16 MALE PARTICIPANT: Distinguish between  
17 nice-to-know and need-to-know, right?

18 CHUCK CASTO: Right. That's a good way of  
19 putting it, you know, what would change our  
20 recommendations or what would we need to know to say  
21 stop doing something, but, you know, some of this is  
22 just --

23 I mean, we're doing all kinds of  
24 structural analysis of spent fuel pools, but I'm not  
25 sure in the end it really matters for us. How does

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1 that protect American citizens if we already know --  
2 you know, if it's full or if it's not full or  
3 whatever, we need to know that, but I'm not sure.  
4 There's just a lot I think we're asking that's not  
5 necessary.

6 MIKE WEBER: Well, I'm glad you're riding  
7 herd on that.

8 CHUCK CASTO: So, we just need to get a  
9 little discipline.

10 MIKE WEBER: Yes.

11 MALE PARTICIPANT: Hey, Chuck, the systems  
12 requests that were underlined in yesterday's cabinet  
13 meeting report, are they all being addressed, as far  
14 as you know, or do you need us to take action on some  
15 of those?

16 CHUCK CASTO: No, I think if we did, we  
17 would -- somebody would contact you. DART out here is  
18 still riding herd over that for us, but the DART team  
19 is -- they're not sure they want to keep doing that,  
20 and they actually --

21 Somebody inadvertently turned off a J4  
22 team today, thinking that that was just another group  
23 of people coming in to, you know, just add to the  
24 chaos. Well, that J4 team, DoD team, I think, that  
25 the Chairman had asked for to do the coordination of

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1 all the equipment.

2 MALE PARTICIPANT: Yes.

3 CHUCK CASTO: (b)(5)

4 (b)(5)

5 (b)(5)

6 okay, so they're going to  
7 unwind that tomorrow and ask for that J4 team to come  
8 back in, and they will do all the logistics for us so  
9 we can get out of this business.

10 MIKE WEBER: That would be great.

11 CHUCK CASTO: DoE and us are both tired  
12 of, you know, chasing down. They were very apologetic  
13 tonight, because they pushed us really hard for some  
14 hoses, some high-quality high-pressure hoses, I don't  
15 know, 1500 meters of it or something, and they've been  
16 pushing us night after night.

17 We've been chasing this stuff down.

(b)(5)

18 (b)(5)

19 (b)(5)

20 (b)(5)

21 (b)(5)

22 MIKE WEBER: (b)(5)

23 (b)(5)

24 CHUCK CASTO:

(b)(5)

25 (b)(5)

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1 MIKE WEBER: Okay.

2 CHUCK CASTO: (b)(5)

3 (b)(5)

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5  
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7  
8 MALE PARTICIPANT: Yes.

9 CHUCK CASTO: So, but, you know, we said,  
10 "Hey, we didn't really work that hard on it. It  
11 wasn't" -- you know, and we may -- we've had some  
12 false starts ourselves, so, you know, everybody's just  
13 doing the best that they can do, you know, nothing  
14 deliberate, so.

15 MIKE WEBER: I have another question for  
16 you, or at least a heads-up. (b)(5)

17 (b)(5)

18  
19  
20  
21 CHUCK CASTO: Oh, I hadn't heard that.

22 MIKE WEBER: Yes. So we're trying to work  
23 that back through the interagency, consulting with GE  
24 and INPO so that we can provide to you there on the  
25 ground, you know, one consolidated recommendation,

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1 right.

2 CHUCK CASTO: Well, I need -- I need that  
3 soonest.

4 MIKE WEBER: Yes. Well, Ed Hackett and  
5 his team are working on that right now. I wasn't sure  
6 that I understood from the email exchange what the  
7 basis against the recommendation was. (b)(5)

8 (b)(5)  
9  
10

11 CHUCK CASTO: (b)(5)

12 (b)(5)  
13  
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16

17 MIKE WEBER: (b)(5)

18 (b)(5)  
19

20 CHUCK CASTO: Right.

21 MIKE WEBER: So you've got to weigh the  
22 pros and cons and come up with a coordinated  
23 recommendation, so we're working that for you.

24 CHUCK CASTO: If they could have that in -  
25 - I don't know when you guys plan to have that.

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1 MIKE WEBER: Well, they're working it this  
2 shift, so we should have it, you know, by mid-  
3 afternoon.

4 CHUCK CASTO: Okay, because they have a --  
5 I have a meeting at 1:00 tomorrow afternoon with  
6 Hasano (phonetic). He's in charge of that. He's in  
7 charge of the whole effort, and he's the one that has  
8 to make the decision with the Prime Minister on going  
9 forward.

10 MIKE WEBER: Right. We should be getting  
11 back to you tomorrow morning. By the time you're up,  
12 we should have --

13 CHUCK CASTO: That would be great.

14 MIKE WEBER: -- an update on that.

15 CHUCK CASTO: That would be great.

16 MIKE WEBER: Sometime, it may not be now,  
17 but we would benefit from your feedback on how your  
18 computers are working out there. I talked to Rick  
19 Durvicelli (phonetic), and he gave me some feedback,  
20 and it sounds like, you know, the use of Webmail was  
21 frustration, and you may not have had enough laptops,  
22 but we're trying to work now back here with our OIS  
23 folks to make certain that the team there, you, have  
24 the support that you need.

25 CHUCK CASTO: Yes, I don't know. I think

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1 we're trying to work through it. We had a problem  
2 over the weekend, because we were transitioning.

3 We had basically two waves here at once,  
4 and that was a lot, and we only have -- I think it's  
5 five internet connections, because the local service  
6 provider provided us five without charge, and we're  
7 told from the embassy if we try to scale up, it costs  
8 like thousands of dollars a month, so they may not  
9 want to.

10 You know, that's a lot of money, so then  
11 five, the connections we have, must be a cable modem  
12 or something, because if five people get on it,  
13 basically it doesn't work. It slows way down.

14 And then you're right. The Webmail has  
15 been a real -- because the laptops, most of them don't  
16 have Citrix on them, we are faxing documents back and  
17 forth kind of the old-school method.

18 MIKE WEBER: Yes.

19 CHUCK CASTO: So we don't have -- you  
20 know, Webmail won't allow us to do the document thing,  
21 so it's become a real nuisance, basically.

22 MIKE WEBER: That's why you're still  
23 there. If there are things that you can send back our  
24 way that you need, we can work on making them happen.

25 CHUCK CASTO: Yes, that's probably the

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1 only thing. I mean, the embassy has provided us  
2 plenty of supplies and all that, and I don't know what  
3 you could do about internet connection. That is what  
4 it is, but they've provided us plenty of office space  
5 and supplies and everything we need.

6 In fact, today we talked about another  
7 different conference room, moving to a different  
8 conference room, but it happened to be on the same  
9 floor as the Ambassador, and we're just too rowdy to  
10 move up there on that floor. I said, "No, we're not  
11 going to be right down the hall from the Ambassador.  
12 It's just way too much noise for that."

13 But we're having -- we're having -- the  
14 problem is the conference room we have doesn't have a  
15 door. It has a doorway with no door, and I don't -- I  
16 guess they can't put a door in there or something,  
17 and, you know, (b)(5)

18 (b)(5)  
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(b)(5)

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MIKE WEBER: Yes. All right. Anything else you need from us?

CHUCK CASTO: No, that's it. We're doing good.

MIKE WEBER: All right. Appreciate your download. You know Vince Holahan is now in Hawaii?

CHUCK CASTO: I heard that, yes.

MIKE WEBER: You guys got Japan, and Vince got to go to Hawaii.

CHUCK CASTO: Yes, we got the -- I don't know. You know, it's okay. I like it here. Japan's all right.

MALE PARTICIPANT: It's a beautiful country.

CHUCK CASTO: It is. It's beautiful, and both places are really pricey, so we're even on that.

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1 MIKE WEBER: Yes, so he'll be --

2 CHUCK CASTO: All right, guys.

3 MIKE WEBER: Okay.

4 CHUCK CASTO: Have a good -- have a good  
5 day. We'll talk to you soon.

6 MIKE WEBER: Okay. Thanks, Chuck.

7 CHUCK CASTO: All right. See you.

8 MIKE WEBER: Take care.

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 WEDNESDAY

7 MARCH 30, 2011

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Hi, Chairman, good  
3 afternoon.

4 MALE PARTICIPANT 2: (Inaudible).

5 MALE PARTICIPANT: Doing okay. I've got  
6 you on the speaker phone here with the team leads.  
7 I'm going to walk through a number of different things  
8 quickly, such as (inaudible).

9 CHAIRMAN: Okay.

10 MALE PARTICIPANT: We made contact with  
11 Jim Callahan (phonetic) in Pearl Harbor with Pacific  
12 Command, and getting arrangements for logistics with  
13 him set up, so.

14 CHAIRMAN: Good.

15 MALE PARTICIPANT: That's just at the  
16 starting stage. The feedback that I got on my  
17 turnover from the deputy's meeting that you went to  
18 was that PACOM's (phonetic) looking for heat loading  
19 (phonetic) negotiated with an energetic --

20 CHAIRMAN: Yeah.

21 MALE PARTICIPANT: -- when will it not be  
22 an issue on our reactor (inaudible) team, and looking  
23 into that.

24 CHAIRMAN: Yeah.

25 MALE PARTICIPANT: There was an issue from

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1 the Department of State that they were looking for  
2 pre-warning signs that could lead to abandonment or  
3 evacuation of the unit there at the site.

4 CHAIRMAN: Yeah.

5 MALE PARTICIPANT: It sounded like that  
6 did not get tasked.

7 CHAIRMAN: Okay. I think that's more  
8 being worked -- I think with -- there's kind of a task  
9 force, I think, that's looking at next steps for  
10 protective actions planning. And I think our PNT  
11 (phonetic) folks are hooked into that. If they're  
12 not, they should be.

13 MALE PARTICIPANT: Okay. That goes here  
14 (phonetic), so we'll (inaudible).

15 CHAIRMAN: And you have a contact? There  
16 aren't any -- who resolved -- there are planning tools  
17 that are being used to kind of guide what might  
18 develop in a way that could cause us to do additional  
19 things with US citizens.

20 And the point that I made was that most of  
21 those are based at -- you know, that the more severe  
22 events appear to be based on spent fuel fires.

23 And that to get to a spent fuel fire, you  
24 likely are going to have to have some type of  
25 triggering event for that, which would mainly be one

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1 of the reactors having a more significant release,  
2 which causes contamination in the area, which prevents  
3 you from continuing to work to manually supply water  
4 to the pools.

5 Given that scenario, you'd likely have  
6 some amount of time, possibly days, before you would  
7 lose all of the inventory in the pools, and with that,  
8 potentially have the possibility of a fire.

9 MALE PARTICIPANT: All right. Let me add  
10 a couple of thoughts, if I could.

11 CHAIRMAN: Yeah.

12 MALE PARTICIPANT: Going back to the very  
13 first point you raised, we'll work with PMT (phonetic)  
14 to see if we can make the connection back to this  
15 working group, and see if we can get ourselves  
16 involved.

17 A more significant issue, do you put the  
18 spent fuel pool and the what sounds like a more  
19 positive sense of spent fuel pool filling that you may  
20 have received in Japan --

21 CHAIRMAN: Yeah.

22 MALE PARTICIPANT: -- than the reactor  
23 safety team believes is the case.

24 CHAIRMAN: Okay. So we think that that --  
25 my assessment, did you think that my assessment was

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1 inaccurate?

2 MALE PARTICIPANT: The thinking here, I'll  
3 answer it roundabout first, but our thinking here is  
4 that the pool 3 and 4 are either very low or empty.

5 CHAIRMAN: Okay.

6 MALE PARTICIPANT: And at their assessment  
7 that the surge tank, the skimmer system --

8 CHAIRMAN: Yeah.

9 MALE PARTICIPANT: -- getting full, is an  
10 erroneous symbol for what's actually occurring in the  
11 spent fuel pool.

12 CHAIRMAN: Okay.

13 MALE PARTICIPANT: So, we see a serious  
14 issue remaining, and a difficult one, at least for  
15 Unit 4, because of the fact that on one hand, you need  
16 to put water in there to keep it cool, but then  
17 there's concerns about the structure after the  
18 explosion, or whether it would even be able to handle  
19 the load of a lot of water in the pool.

20 CHAIRMAN: Yeah.

21 MALE PARTICIPANT:

(b)(5)

22 (b)(5)

23  
24  
25 It seems, as it was a couple of weeks ago,

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1 they're indicating that they're looking for help with  
2 the spent fuel to remove it from the spent fuel pool,  
3 but they, at the same time, say the spent fuel pools  
4 are filled with water.

5 CHAIRMAN: Yeah.

6 MALE PARTICIPANT: So there's a little bit  
7 of a disconnect there.

8 CHAIRMAN: Okay. Well, can you make sure,  
9 in that we've done the next SITREP?

10 MALE PARTICIPANT: Make sure the next  
11 SITREP that we say -- we have been saying in the  
12 SITREP that water level is very low. We don't say,  
13 perhaps dry, but we do say very low.

14 CHAIRMAN: Okay. Well, if you can  
15 particularly -- specifically comment to the fact that  
16 the timelines that I provided may be optimistic?  
17 Because it sounds like that's what you're telling me,  
18 is that we may not -- we may not have three days or so  
19 after an energetic event at one of the reactors.

20 MALE PARTICIPANT: Right. Because we're  
21 not talking about boil-down of a spent fuel pool if  
22 there's little to no water in there now.

23 CHAIRMAN: Okay. Okay.

24 MALE PARTICIPANT: Okay.

25 CHAIRMAN: If you can make sure in the

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1 next rep, or do an update to the SITREP that gets out  
2 to people that clarifies that point that I made.

3 MALE PARTICIPANT: Okay.

4 CHAIRMAN: (b)(5)

5 (b)(5)  
6  
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8  
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10 MALE PARTICIPANT: Will do.

11 CHAIRMAN: Okay.

12 MALE PARTICIPANT: (b)(5)

13 (b)(5)  
14

15 CHAIRMAN: Yes.

16 MALE PARTICIPANT: -- for bringing people  
17 back in. We're trying to figure out whether or not  
18 (inaudible).

19 (Bridge line seems to have dropped.)

20 BILL TEAREM (phonetic): It's Bill D.  
21 Tearem (phonetic). You can go ahead, and I'll  
22 (inaudible) back on the bridge.

23 MALE PARTICIPANT: (Inaudible) again?

24 BILL TEAREM: No, no.

25 MALE PARTICIPANT: Thank you.

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1 BILL TEAREM: Yes.

2 MALE PARTICIPANT: Wait, I can't stop. I  
3 can't stop it.

4 (Silence.)

5 JIM WIGGINS: Hi, Chuck. Chuck? Jim  
6 Wiggins.

7 CHUCK: Hey, Jim. How are you doing?

8 JIM WIGGINS: All right. What's up?

9 CHUCK: Just checking in.

10 JIM WIGGINS: Okay. It's been a quite  
11 night for us. I gather that your team's been talking  
12 back to our team.

13 Any disagreement on priorities? We're  
14 still, as I understand, RST's still pushing dry well  
15 filling in Unit 1.

16 CHUCK: that's going to take some time.  
17 They have nitrogen purges going to be somewhere around  
18 the first through the third, where they initiate it.

19 JIM WIGGINS: Yeah, but I think that's not  
20 a universally held view across everyone, you know,  
21 whether -- I guess TEPCO's plan is to continue the  
22 injections at whatever rate they've got.

23 CHUCK: That's their plan. Feed and bleed  
24 is the plan for now.

25 JIM WIGGINS: Okay. And I guess we've

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1 been answering some questions through the night.  
2 Let's see. You might be aware of this, but Vince  
3 Holahan has arrived, and is embedded in PACOM.

4 CHUCK: Right.

5 JIM WIGGINS: He's operating out of a  
6 SCIF, so we need to -- you know, we can only get him  
7 during certain communication windows, until we figure  
8 out a different way.

9 CHUCK: Okay.

10 JIM WIGGINS: We'll probably -- we'll try  
11 in the morning to see if there's a speed bone  
12 (phonetic) around that we could use to get him.

13 CHUCK: Yeah.

14 JIM WIGGINS: Let's see what else. We  
15 continue -- probably should get a question from  
16 somebody, or at least during the days out (phonetic)  
17 in Japan, because a number of military people have  
18 asked us for basically dose assessments supporting  
19 varying --

20 CHUCK: Yes. Right.

21 JIM WIGGINS: You know, have we got a  
22 standard -- I told TMT (phonetic), the standard  
23 approach is to, you know, certainly want to be  
24 helpful, but to remind them that the process involves  
25 providing those types of questions and ideas to the

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1 White House and OSTP and DOE, and their belief in that  
2 area, once they would agree to pick up the issue or to  
3 do what's been requested, we certainly are prepared to  
4 support it.

5 But in the last iteration this evening has  
6 been yet another source term-like thing.

7 CHUCK: Right.

8 JIM WIGGINS: So --

9 CHUCK: (b)(5)

10 (b)(5)

11 JIM WIGGINS: Which (b)(5)

12 you?

13 CHUCK: (b)(5) (phonetic).

14 JIM WIGGINS: Okay. That's sort of pack  
15 leader (phonetic) or something like that, I think. I  
16 looked him up yesterday.

17 CHUCK: He's Willard's (phonetic), (b)(5)

18 (b)(5)

19 JIM WIGGINS: Okay.

20 CHUCK: Admiral Willard's top, you know,  
21 die admiral (phonetic) here on the site.

22 JIM WIGGINS: Okay.

23 CHUCK: But I told him, you know, I  
24 couldn't really help him from the site team. They  
25 need to talk to the chain of command there.

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1 JIM WIGGINS: Yeah.

2 CHUCK: So.

3 JIM WIGGINS: Well, one way, you can touch  
4 him back to PACOM, but he's PACOM. But the scheme has  
5 to go through this -- you know, OSTP or DOE  
6 arrangement.

7 CHUCK: Right. That's what I told him. I  
8 said, you've got to go through the -- you know, DOE  
9 arrangement.

10 JIM WIGGINS: Yeah. Well, I think --  
11 well, I wonder, what might be happening is, they can't  
12 get satisfaction in that route.

13 (b)(5)

14 (b)(5)

15  
16  
17  
18 CHUCK:

(b)(5)

19 (b)(5)

20  
21  
22  
23  
24  
25 (b)(5)

And they came from

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1 the NRC, but they were ten days old.

2 (b)(5)

3  
4  
5  
6  
7  
8  
9 JIM WIGGINS: Yeah. I still think,  
10 though, from what I understand, (b)(5)

11 (b)(5)

12  
13  
14  
15 CHUCK: Yeah.

16 JIM WIGGINS: So that they can get a  
17 multi-day jump on things. And --

18 CHUCK: Yeah, they don't want their  
19 aircraft carrier crapped up again.

20 JIM WIGGINS: Well, I think they also want  
21 to get their people out.

22 CHUCK: Right.

23 JIM WIGGINS: Yeah. Okay. Speaking of  
24 things crapped up, you may have heard some of this,  
25 too, there's going to be another inter-governmental

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1 policy council or whatever, an IPC --

2 CHUCK: Yeah.

3 JIM WIGGINS: -- is going to come together  
4 to support the Customs and Border Patrol in a question  
5 with regard to radiological clearance for things and  
6 people coming state-side from Japan.

7 CHUCK: I hadn't heard that.

8 JIM WIGGINS: Yeah. That was floating  
9 around in email during the day yesterday. So while  
10 you were sleeping, and for that matter, while I was  
11 sleeping, this thing came about.

12 We tossed it about electronically here on  
13 this side a bit yesterday, and I think what we pretty  
14 much settled on is that we're going to punt this to  
15 FSME (phonetic) as part of wide organization, and  
16 they'll go over it.

17 CHUCK: Right.

18 JIM WIGGINS: So, we're going to try that  
19 approach, you know, because we want to start sending  
20 some things to Hawaii.

21 CHUCK: Right. I agree with that.

22 JIM WIGGINS: Well, that will support us  
23 being able to do some type of a stand-down here.

24 CHUCK: Right. That's what I was going to  
25 ask about. What's the status of that?

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1 JIM WIGGINS: Well, I don't know that it  
2 has much status at all, quite frankly. And that's --  
3 I think what it is is probably people have been  
4 waiting for the Chairman to get back to pass through  
5 him some of these ideas.

6 CHUCK: Right. Okay.

7 JIM WIGGINS: So I guess he's back, and  
8 probably -- we'll get a Chairman that's recovered from  
9 his trip by tomorrow maybe, or today. Maybe something  
10 tomorrow will happen here.

11 Let's see. Anything from your side?  
12 We've got the -- Scott Morris and I are here, and the  
13 three team directors are around the table for 6:00  
14 a.m. brief.

15 You got anything?

16 CHUCK: No, there's nothing spectacular  
17 going on. We've spent -- the team has spent most of  
18 their day trying to get information, and I spent most  
19 of my day putting out fires, so that's the way it  
20 works. It's like whack-a-mole, you know?

21 JIM WIGGINS: Yeah.

22 CHUCK: You whack one of them, and the  
23 next thing you know, here comes another one.

24 JIM WIGGINS: It's a normal day for you  
25 guys, right?

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1 CHUCK: Right. You know, playing whack-a-  
2 mole, and trying to tamp things down to reality.

3 JIM WIGGINS: Yeah.

4 CHUCK: That's my whole day. You know,  
5 things go up to the White House, and they come back  
6 down here, and then I've got, you know, the military  
7 coming in, (b)(5) -- always  
8 something, and naval reactors, and DOE.

9 And today, they told me that,  
10 unilaterally, DOE here at the embassy, called in three  
11 people from Sandia, so they're coming in. Naval corps  
12 kind of guys, I guess that worked for us in Sandia.  
13 I'm not sure, you know, we didn't ask for that. We  
14 don't think it's needed. Don't know why they're  
15 coming.

16 JIM WIGGINS: But where are they going --  
17 where are they going to report?

18 CHUCK: Well, that's what I told DOE  
19 today. I said, don't -- you know, they're not being  
20 housed in my shop. You know, I know they're full-time  
21 NRC contractors, but we didn't ask for them, and we're  
22 not paying for them, so, and I don't have room for  
23 them in my shop, so if you guys, you know, want them,  
24 then, they're yours.

25 JIM WIGGINS: Well --

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1 CHUCK: And I know what's going to happen,  
2 is they're going to have 1,200 questions to run for  
3 code (phonetic).

4 JIM WIGGINS: Well, there's a number of  
5 curious looks around here.

6 MALE PARTICIPANT: You know, most of Mel  
7 Corps (inaudible) expertise Interior headquarters  
8 (phonetic), so why are they coming there to --

9 JIM WIGGINS: Well, the Mel Corps  
10 (phonetic) were used -- what Mel Corps work we're  
11 doing, we're doing here.

12 MALE PARTICIPANT: Right.

13 JIM WIGGINS: Mel Corps is part of a code  
14 group that research runs --

15 MALE PARTICIPANT: Right.

16 JIM WIGGINS: -- that has contractor  
17 support. I don't know if Sandia does Mel Corps. I  
18 think --

19 CHUCK: Well what I'm going to do around  
20 there is the question.

21 JIM WIGGINS: Well, that's a good  
22 question, because, Chuck, are you sure whose nickel  
23 these guys are traveling on?

24 CHUCK: I'm not -- I'm pretty sure they're  
25 traveling on DOE, and they're leaving like tomorrow.

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1 And John and Dan both know two of the three names, and  
2 they know that they're Mel Corps guys.

3 JIM WIGGINS: Okay. I was turned over  
4 (phonetic) that the government of Japan has invited  
5 over some Pacific Northwest folks.

6 CHUCK: I knew about that. We have their  
7 names, and I know that. You know, yeah, I was in the  
8 meeting with Tosano (phonetic) when they asked for  
9 that. I mean, they've been asking us for that, and we  
10 got them the names. But, you know, (inaudible)  
11 Sandia.

12 JIM WIGGINS: Do you want us to do  
13 anything about it? Like, do you want us to try to  
14 reach out to DOE, or try to figure out what the --

15 CHUCK: (b)(5)

16 (b)(5)  
17  
18  
19  
20  
21  
22  
23  
24  
25

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(b)(5)

So, I'm -- you know.

JIM WIGGINS: Well, you're describing -- should I take this, that the dynamic is that these additional individuals, when they show up, they want to participate in the meetings that you and your folks are going to, but when they come out of that, then they're directing all of their questions at you?

CHUCK: At us, yeah. The rest of their questions that they don't get answered in the TEPCO meetings, they direct to us.

JIM WIGGINS: Well, what's -- what's their --

CHUCK: And then --

JIM WIGGINS: Well, it seems like their roles are screwed up. We may need to fix that, Chuck.

CHUCK: Well, yeah. (b)(5)

(b)(5)

And, you know, I've counseled the team here, you know, they can't get distracted by all of

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1 these questions, by all of these groups, you know.  
2 There's basically a beast that, once fed, and they're  
3 devouring us. So, I got to put a stop to that.

4 JIM WIGGINS: Yeah. I think you're right.

5 Is there --

6 CHUCK: And, you know, the ambassador took  
7 a big chop at it yesterday, (b)(5)

8 (b)(5)  
9  
10  
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22

23 JIM WIGGINS: Yeah, I understand you had a  
24 personal briefing with the chairman yesterday, or  
25 somewhere, and it went an hour (phonetic). Is that

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1 true?

2 CHUCK: Probably. Yeah, I probably had at  
3 least one, yes.

4 JIM WIGGINS: Is there -- is that a way to  
5 go? You know, the chairman's going to an 8:00 meeting  
6 in two hours, he's going to a deputy's meeting.

7 CHUCK: I wouldn't put that on the table  
8 for today. I would let me work it for a little bit, a  
9 day or two. (b)(5)

10 (b)(5)

11  
12 JIM WIGGINS: I would suggest that you at  
13 least, if you're talking to the Chairman regularly,  
14 you at least let him know that this is brewing, and  
15 you're trying to come to grips with it --

16 CHUCK: Right.

17 JIM WIGGINS: -- and you may need his  
18 assistance later. Okay?

19 CHUCK: That's some good advice. And I'll  
20 brief him at 7:30 tomorrow morning, so that's good  
21 advice. You know, I'm trying to manage it, and the  
22 Ambassador's trying to manage it.

23 JIM WIGGINS: Just watch how you do it,  
24 because once you start --

25 CHUCK: yeah.

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1 JIM WIGGINS: -- if you lay it on too  
2 thick, he's going to feel like he's going to have to  
3 fix it for you.

4 CHUCK: Right.

5 JIM WIGGINS: You need to say, here's a  
6 developing problem that I'm addressing with the  
7 ambassador, too, who's got a common view. And if  
8 we're not successful, we might need to raise the  
9 stakes on this. Okay?

10 CHUCK: Right. Right.

11 JIM WIGGINS: And get him in the stake-  
12 raising mode, not the initial fix mode.

13 CHUCK: Right.

14 JIM WIGGINS: But if there's something we  
15 could do, you know, if there's some role that we can  
16 help you with here that way?

17 CHUCK: I don't know what form. I think  
18 we also need to say something that -- every morning, I  
19 don't know what time it is back there, it must be at -  
20 - but we have that inter-agency call at 10:30. It  
21 must be 9:30 at night.

22 You know, that's a place where I could tee  
23 it up, too. And I think we may have, but I can tee it  
24 up a little bit stronger.

25 JIM WIGGINS: Well, we have --

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1 CHUCK: The problem is, it's right in the  
2 building, that's the problem.

3 JIM WIGGINS: We have naval reactors  
4 representation here.

5 CHUCK: Right.

6 JIM WIGGINS: We could use that to send a  
7 message back to say, you know, we would hope that  
8 their guys in country are performing the same way  
9 their guys here are performing. They're not peppering  
10 the teams with questions. They're -- in terms of, you  
11 know, treating us like we're the fount of all  
12 knowledge.

13 Any questions that are asked, they're  
14 more along the lines of, working in the team to try to  
15 get the best answer, you know what I mean?

16 CHUCK: That's not what happened.

(b)(5)

17 (b)(5)  
18  
19

20 JIM WIGGINS: We could try to work through  
21 the people we have here to let them go back to their  
22 managers and send them a signal. I mean, God knows,  
23 they -- you know the signals they were sending us  
24 early on about what was going on at the site team. We  
25 can do the same thing backwards on that.

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CHUCK: Right. And that's fine.

(b)(5)

(b)(5)

JIM WIGGINS: Okay.

CHUCK: So --

JIM WIGGINS: (b)(5)

(b)(5)

CHUCK: (b)(5)

(b)(5)

JIM WIGGINS: Okay.

CHUCK: But, you know -- they, you know, I  
mean --

JIM WIGGINS: Well, you know --

CHUCK: DOE's --

JIM WIGGINS: I'm thinking, if the  
chairman's been continuing to push on this idea about  
getting an agency to step up to be more of a lead, so,  
you know, we don't have to be it. You know, and I  
think that's --

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1 CHUCK: Well, he's pushing that for  
2 logistical support, I know.

3 JIM WIGGINS: Yeah. Maybe that's it.

4 CHUCK: Yeah, you know, we told him, you  
5 know, we didn't want the burden of trying to track  
6 down shielding, for instance. You know --

7 JIM WIGGINS: Yeah.

8 CHUCK: -- that's just too much of a  
9 burden. And we're still struggling with that. We  
10 have a meeting on that tomorrow, about how to get  
11 material in here.

12 JIM WIGGINS: Okay. Maybe -- is the  
13 ambassador, then, maybe the -- I mean, (b)(5)

14 (b)(5)

15  
16  
17  
18 CHUCK: Yes.

19 JIM WIGGINS: -- utility (phonetic) of  
20 having them in, or what role they would be once they  
21 get here.

22 CHUCK: Exactly. Right.

23 JIM WIGGINS: You know, so do we have a --  
24 you know, and that can be something the ambassador can  
25 push on, too.

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1 Do you have a cohesive effort that is  
2 focused on whatever all we need to be focused on, like  
3 support for the ambassador, and not lead to an  
4 alphabet soup and the government making unilateral  
5 decisions about how to staff Japan?

6 CHUCK: Right. And they're clearly, you  
7 know, (b)(5)  
8 (b)(5) because he made it clear yesterday who's  
9 in charge.

10 And you know, then, today, (b)(5)  
11 (b)(5)

12 JIM WIGGINS: Yeah. We don't know what  
13 they're going to do.

14 CHUCK: Right.

15 JIM WIGGINS: All right.

16 CHUCK: And also --

17 JIM WIGGINS: Well, I guess -- all right.  
18 So, you're going to work it a bit. You'll let us  
19 know if we can help you, right?

20 CHUCK: Yeah. Yeah, I'm just teeing it up  
21 with you guys. It's been a problem, you know, kind of  
22 all along.

23 But I -- maybe my fuse is getting short or  
24 something, but it certainly wasn't me that kicked all  
25 of this off. (b)(5)

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1 (b)(5)

2 JIM WIGGINS: Okay.

3 CHUCK: -- that kicked it off in the  
4 ambassador's mind. He just went -- he had a real  
5 heartburn with it.

6 JOHN MONAGER: Well, I'm sure he's tired,  
7 too.

8 CHUCK: Yeah.

9 JIM WIGGINS: All right, Chuck. We got --  
10 do you want to listen to the team leaders' debriefs,  
11 or do you want to go about your business, or we're  
12 going to go to bed here or something -- you going to -  
13 -

14 CHUCK: We better get going here. This is  
15 our first early night, and we're going to go out to  
16 dinner, so I'm going to get out to dinner.

17 JIM WIGGINS: All right. Watch the  
18 blowfish.

19 CHUCK: Yeah, there you go. Hey, thanks,  
20 guys.

21 JIM WIGGINS: Make sure you're in a  
22 certified sushi restaurant. You know, you don't want  
23 to have any back alley blowfish.

24 CHUCK: Yeah, I know what you're talking  
25 about.

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1 JIM WIGGINS: Okay.

2 CHUCK: All right. Thanks, guys.

3 JIM WIGGINS: Yeah.

4 CHUCK: Talk to you soon.

5 JIM WIGGINS: Bye.

6 FEMALE PARTICIPANT: I have one last  
7 chance to look at it.

8 FEMALE PARTICIPANT 2: I can still do  
9 that, if you like, or I can hold.

10 FEMALE PARTICIPANT: It doesn't take me  
11 but a minute, I just -- but you know, that's just kind  
12 of hanging off --

13 MALE PARTICIPANT: You're asking for it?

14 MALE PARTICIPANT 2: He's up on the bridge  
15 now.

16 FEMALE PARTICIPANT: That way, that was  
17 committed during the day, in earlier emails, that said  
18 we would update it at set (phonetic) 19:00.

19 BRIAN MCDERMOTT: Alan, are you there?  
20 This is Brian McDermott.

21 ALAN: Yes, I am, Brian.

22 BRIAN MCDERMOTT: How are you doing?

23 ALAN: Good.

24 CYNTHIA OSGOOD (phonetic): Hi, Alan.  
25 This is Cynthia Osgood (phonetic).

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1 BRIAN MCDERMOTT: We have Rezza  
2 (phonetic), Roy Zimmerman, Lisa Gibney (phonetic) at  
3 the table here.

4 ROY ZIMMERMAN: Hi, Alan.

5 ALAN: Okay, excellent. Hi, guys.

6 BRIAN MCDERMOTT: We wanted to check in  
7 with you on the issue of the consortium call, and  
8 really try to get your perspective. I think you heard  
9 that we participated in a call here with USAID, and  
10 others, including a number of military components.

11 One of the things we learned in that call  
12 is that the embassy is creating a list. And I  
13 understand you're going to bounce our list off of  
14 their list?

15 ALAN: Yes, that's correct.

16 BRIAN MCDERMOTT: Okay. Great.

17 ROY ZIMMERMAN: The Japanese embassy?

18 BRIAN MCDERMOTT: US embassy in Tokyo.

19 ALAN: Yes, yes. We -- I'm aware of the  
20 list. I've looked at their list, and the schedule  
21 that we have right now.

22 The INPO team lead that they have over  
23 here, we're scheduled to get together after lunch  
24 today in Japan time, and we will be taking the list  
25 that we have in front of me, which is a lot of INPO

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1 support, and we're going to be working that into the  
2 embassy's list and updating the embassy's list.

3 As far as the other items in here, the DOD  
4 items and things like that, for the most part, I  
5 believe that they're already included in the embassy's  
6 list, and I'll have to verify that. But they look  
7 similar to the items that had come out of the  
8 Government of Japan, their request, several days ago.

9 BRIAN MCDERMOTT: Okay, Alan, what's your  
10 understanding of, you know, when a request is being  
11 made at the PM's meeting there, is that first being  
12 looked to -- can it be provided by private sector and  
13 billed back to the government?

14 Or, you know, how is this being sorted  
15 between what is going to INPO to help align the  
16 delivery of a product, if you will, versus what's  
17 going to the US Government, or the Department of  
18 Defense?

19 ALAN: I haven't been to one of those  
20 meetings in a couple of days, but I'm not sure -- I'm  
21 not sure if it's completely vetted at that point.

22 I really think that what we need to do is  
23 have these meetings afterwards, once the official list  
24 comes in, and then sort through those lists, and see  
25 if, for example, other governments are trying to

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1 provide the same items, or, perhaps, is private  
2 industry. Can they do it better than government, and  
3 are they willing to take that on?

4 And I think through this other meeting  
5 that we need with INPO as well as the embassy list,  
6 getting together with those players, I think that's  
7 really where we need to work through and vet all of  
8 these items and assign ownership.

9 BRIAN MCDERMOTT: Okay. Yeah, there's  
10 just a lot of questions around how these things are  
11 being funded, and the fact that they're -- you know,  
12 the authorities and funding streams for items that go  
13 beyond humanitarian assistance to a foreign  
14 government, there's no process for that. And that  
15 seems to be a -- you know, a challenge at the moment.

16 ALAN: Yes. Yes. And I think talking  
17 with INPO a little bit, they have similar issues right  
18 now with logistics, where -- similar issues as far as,  
19 they may need military to help move items from point A  
20 to point B.

21 BRIAN MCDERMOTT: Right. And is that  
22 military assistance in moving items that have been  
23 donated, or things that have been purchased?

24 ALAN: I believe it would pertain to both.

25 BRIAN MCDERMOTT: Okay.

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1 ROY ZIMMERMAN: Is there a way to  
2 differentiate between donations and purchases?

3 BRIAN MCDERMOTT: No. And that's one of  
4 the things I think we were trying to capture on there,  
5 and I don't know if the embassy list gets to that  
6 level of detail. But that was something that I think  
7 Chuck was talking about last night, with Alan, just to  
8 try to provide that kind of detail.

9 You know, they talked about the validation  
10 of a request, and I don't know how much the team's  
11 been involved in this, but, you know, from the  
12 perspective of this group we were just on with, it  
13 goes beyond just the technical assessment, right?  
14 There is the authorities about who can provide it, who  
15 has the funding to provide it.

16 There are some items, I guess, they've  
17 tripped across, where there are export controls on the  
18 things that are being requested.

19 ALAN: Yes.

20 BRIAN MCDERMOTT: So, you know, it seemed  
21 like they were trying to come up with a process for  
22 validation.

23 ALAN: Yes.

24 BRIAN MCDERMOTT: There's a -- one of the  
25 military components that was on there, with tasks, was

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1 putting together a notional process for doing this, so  
2 they should have that ready by tomorrow morning, DC  
3 time.

4 There was also an offer to -- I think, put  
5 together a concept, sort of like what we do in the  
6 States, for a disaster, like a joint field office,  
7 where all of the parties with equity would have a part  
8 in vetting those lists before they got assigned out.  
9 You know, I guess that only goes so far when you're  
10 talking about things that would be funded by the US  
11 Government.

12 Other ones would be just a direct, connect  
13 them up with commercially available services, and you  
14 know, if it follows the same process that we do in  
15 this country, that's usually the first option.

16 ALAN: Right. Right.

17 BRIAN MCDERMOTT: They did indicate  
18 they're going to try to -- the DART team asked us for  
19 a one window into the military system, and so there  
20 was discussion about them sending someone with the  
21 capability similar to a defense coordinating officer  
22 that would deploy with a team on the ground here, the  
23 same kind of skill set. So they're looking to  
24 identify some help.

25 And then I know it looks like you have a

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1 team meeting coming up here. Is that true? Do we  
2 need to let you go?

3 ALAN: Yes. We have a -- well, when you  
4 say a team meeting, I'm trying to get together with  
5 INPO after lunch today.

6 BRIAN MCDERMOTT: Okay.

7 ALAN: And there is a 9:00 call, I  
8 believe, from the Japan side, on the consortium.

9 CYNTHIA OSGOOD: Right.

10 BRIAN MCDERMOTT: Right. Okay. Is there  
11 anything that you could share with us, as far as what  
12 your view is from the ground there, about how that  
13 vetting process would work, relative to this  
14 consortium?

15 ALAN: No, at this point. And the reason  
16 I say that is because with the meeting that I was in  
17 the other day, we had talked about a vetting process,  
18 so we don't duplicate effort, and to make sure that we  
19 can really focus on specific items that are needed,  
20 and assign those tasks.

21 But I believe State was going to be  
22 working on that, perhaps with some other players here.

23 And I haven't heard anything since. And I think that  
24 was Monday -- late Monday afternoon, when that was  
25 discussed.

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1           And that's one of the issues that we need  
2 to do here, is, as I said before, we need to get back  
3 together with INPO, which should be occurring right  
4 after lunch, and get together with State, go through  
5 the list that we have and any additional information  
6 from the phonecall later this morning, consolidate the  
7 list into the State Department list, and understand  
8 how this vetting process is going to work going  
9 forward, because what should occur in the Government  
10 of Japan meeting, the cabinet meeting that occurs at  
11 8:00 p.m., all of the requests, the official requests  
12 from the Government of Japan, should come through that  
13 meeting.

14           And then I believe -- and I'm going to  
15 speculate here, but where I think we're going is, the  
16 State Department will then take that list, and we will  
17 work through that list as a team, meaning, we should  
18 make a determination then, who has the lead on the  
19 particular issue, and clearly identify the issue,  
20 because there's been some challenges with really  
21 trying to get to the bottom of the specific item  
22 that's being requested, or the specific technical  
23 details that are being requested.

24           So we need to work through that, and then  
25 assign the ownership, get it to the appropriate list

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1 for the appropriate people to deal with, and move  
2 forward.

3 BRIAN MCDERMOTT: All right.

4 MARIE: I've found that -- this is Marie,  
5 but I think that that's consistent with what we heard  
6 at the call with the OSB (phonetic). And I think the  
7 goal is to really have this one list that's coherent  
8 that is thoroughly vetted, with the Japanese  
9 governemnt, and so there's the list we're getting, we  
10 know what officially the Japanese Government is  
11 requesting, and there's one tour (phonetic).

12 BRIAN MCDERMOTT: And it seems like  
13 there's -- you know, once the request comes in,  
14 there's multiple paths it may go --

15 MARIE: Right.

16 BRIAN MCDERMOTT: -- and so, you know,  
17 there was an element of this that I think we heard  
18 talked about a few days ago. But, you know, the  
19 request would come in, and there may be sourcing for,  
20 say, a pump that's available within country.

21 And so that's the first choice, you know,  
22 so that the embassy would help connect the people who  
23 need it with the supplier that they're aware of in  
24 country. But then, you know, there would be the next  
25 year, where, well, maybe the best place to get it is

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1 from the US industry. Well, then, those get vectored  
2 to INPO to try to shop and find somebody who can  
3 provide it.

4 And then probably the last alternative is,  
5 you get it from the Department of Defense kind of  
6 thing.

7 MARIE: Go ahead.

8 ALAN: No, I was going to say, exactly.  
9 And in the meeting that we were in, they were looking,  
10 I think, at some of the militaries doing that, because  
11 they have excellent tentacles out into Japan. So they  
12 may be able to fairly quickly identify what's readily  
13 available on the ground here that could be deployed,  
14 versus trying to get it from other countries.

15 MARIE: Well, I think -- for me, anyway,  
16 when I got out of this call, the bottom line is that  
17 DART or the embassy is taking the lead in putting  
18 together this list and developing a validation and  
19 vetting process, and that our role is to provide  
20 support for that.

21 ALAN: I would say yes on that, based upon  
22 the concept that was discussed Monday afternoon.

23 MARIE: Okay.

24 ALAN: And I think I do want to verify  
25 that with State later today, when we get together,

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1 because you know as well as I do, as things develop  
2 and evolve, it may change, but that sounds very  
3 reasonable to me, because really, it's an inter-  
4 government/inter-agency and industry coordination  
5 effort.

6 MARIE: Right.

7 ALAN: So it's much bigger than what we  
8 do. And the bulk of the initial technical items that  
9 came in were really geared towards DOD, and the bulk  
10 of -- or excuse me, DOE, and the bulk of the items  
11 that were requested, pumps, things like that, were  
12 coming out of DOD.

13 So, it really makes sense to me to have  
14 the Embassy coordinate it so that, for example, DOD  
15 doesn't end up statususing us and the embassy at the  
16 same time.

17 BRIAN MCDERMOTT: Right. And I think, you  
18 know, in terms of my impression of where the team  
19 would add value is when, you know, they've got a whole  
20 laundry list of the things that have been requested,  
21 and say, the military is providing the transport, if  
22 there is something that's going on at the plant that  
23 you all identify as a priority mitigation activity,  
24 and some piece of equipment is critical to the success  
25 of that effort, that that would be flagged to get

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1 priority in terms of their attention in getting it  
2 there in a timely manner.

3 ALAN: Excellent point.

4 BRIAN MCDERMOTT: During -- now, the other  
5 thing on the list to prioritize (phonetic), just the  
6 list.

7 MARIE: Just the list.

8 BRIAN MCDERMOTT: Okay. The other thing  
9 we heard, which is -- and again, sorry to belabor you  
10 with funding things, but just so you hear it, a  
11 gentleman from USAID mentioned, there's also an  
12 authority, and I guess this is something that's coming  
13 out of the discussions with the White House and so  
14 forth that allows US departments and agencies through  
15 USAID to provide goods and services on a reimbursable  
16 basis to our friendly nations, so that that was kind  
17 of interesting.

18 No one's quite sure how that would work,  
19 but just to let you know hat it was discussed. We've  
20 heard of it. There was more work to be done by the  
21 USAID folks, and I think the NSF legal team.

22 MARIE: Yeah, the takeaway I had from that  
23 is that OSD (phonetic) will take the lead in pursuing  
24 it, and NSF is the funding authority.

25 BRIAN MCDERMOTT: I think that was pretty

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1 much it, Alan. Is there anything that we can do to  
2 help support you?

3 ALAN: I think -- I have seen an agenda  
4 for the consortium teleconference today, and I think  
5 really what's going to be important is we move ahead.

6 I'd really like to try and come up with -- maybe  
7 perhaps not me, but this team, and maybe it starts at  
8 the embassy, it would be nice if we could have a very  
9 simple charter, so we could understand what the  
10 purpose of this team is, and how we're going to  
11 operate.

12 So I think I'll probably be trying to push  
13 that a little bit with State here at the embassy to  
14 perhaps clear -- more clearly define the roles and  
15 responsibilities and how we want to move forward.

16 MARIE: Alan, you're talking about the  
17 team there in Japan, right? A charter for that team,  
18 not for the consortium?

19 ALAN: Yeah. And I really have to -- I  
20 think, once we get together this afternoon, I think we  
21 need to talk about that a little bit, because I -- I  
22 really think, as this thing, as the tentacles grow, I  
23 really think the Embassy's going to have a clear  
24 mission to vet these and get these to the right people  
25 to accomplish the task.

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1           So at this point in time, with what I  
2 know, I believe the charter really has to focus on the  
3 embassy and this team that's coming together to vet  
4 these, and then get them to the right people to work.

5           As far as the overall consortium with the  
6 different government agencies and things like that, if  
7 we can be clear at the embassy and get the tasks --  
8 executable tasks to the agencies, I don't believe that  
9 they're necessarily going to need the charter. So I  
10 think it's really going to be here at the embassy.

11           MARIE: Yeah, I'm actually questioning the  
12 need for a consortium.

13           ALAN: Yes.

14           MARIE: If that embassy's seen it set up  
15 (phonetic).

16           BRIAN MCDERMOTT: Yeah, well, if INPO is  
17 serving as the gateway into the US private industry --

18           MARIE: Right.

19           BRIAN MCDERMOTT: -- then there's a clear  
20 function there, right, that it can go in a single  
21 point of entry into the US industry capabilities and  
22 set forth -- but, you know, DOE's on the list for the  
23 consortium, too, and how does that all fit together?

24           MARIE: Well, that's why -- I just  
25 question why -- I think the consortium will, you know,

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1 we've got the team that has been set up (phonetic) by  
2 the embassy to work on the request from the Government  
3 of Japan, and INPO would be the point of contact or  
4 the central point for requests from (inaudible).

5 ALAN: Right.

6 MARIE: So, meeting the R rule (phonetic),  
7 and managing this consortium, there's nothing left  
8 there. It's not needed.

9 BRIAN MCDERMOTT: All right. Well, let's  
10 see where the call goes today. I mean, this -- it was  
11 a positive call, I think, with USAID --

12 MARIE: Yes.

13 BRIAN MCDERMOTT: -- and the fact that the  
14 embassy is looking to send a patrol, because, you  
15 know, one of the comments they made was, they've  
16 already got established functions and offices and so  
17 forth within the embassy that do a lot of the  
18 coordination piece, and maybe there are some  
19 additional roles for military coordination --

20 MARIE: Right.

21 BRIAN MCDERMOTT: -- or systems to  
22 prioritize and things. But it sounded like they had a  
23 way to get it into a longer-term structure. So what  
24 it leaves unanswered is the question of, you know,  
25 Department of Energy is going to be asked to provide

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1 long-term assistance in terms of, you know, how do you  
2 tune (phonetic) this thing, or what, you know, how  
3 would that be provided, and nobody's had an answer to  
4 that.

5 ALAN: But I think the main thing is  
6 trying to focus on the short-term needs first --

7 BRIAN MCDERMOTT: Right.

8 ALAN: -- to try to mitigate the event.

9 ROY ZIMMERMAN: So, if I'm following with  
10 this discussion, we're saying that it's the US embassy  
11 in Tokyo, or, yeah, the US Embassy in Tokyo,  
12 (inaudible) with the Department of State and other  
13 partners, in setting up an ability to be able to take  
14 the requests from Japan, farm those requests out to  
15 the Japanese to be able to find the equipment within  
16 their own country, others going to potentially the  
17 DOD, the DOE, the NRC, and from that standpoint, the  
18 ones that are coming into the NRC would be looking at  
19 INPO to work with the agility (phonetic) in order to  
20 be able to identify that information that they  
21 provide.

22 BRIAN MCDERMOTT: Yeah, I would just add -  
23 - just slightly, in that INPO's got a rep there that  
24 would be part of that team. They've already got  
25 somebody on the ground there to act as a liaison. So,

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1 those requests of NRC would be requests for technical  
2 analysis, technical assessment.

3 MARIE: Right. Our role is to help in the  
4 vetting and validation (inaudible). And I think that  
5 that's what what's-his-name, Bill --

6 BRIAN MCDERMOTT: Burger (phonetic)?

7 MARIE: -- Burger (phonetic) is already  
8 doing with Chuck.

9 BRIAN MCDERMOTT: Right.

10 ALAN: Bill Webster?

11 BRIAN MCDERMOTT: Bill Burger (phonetic),  
12 the DART team leader.

13 ALAN: The DART team leader.

14 BRIAN MCDERMOTT: Okay.

15 MARIE: So I think this consortium is sort  
16 of redundant, or could be redundant.

17 BRIAN MCDERMOTT: How far along is the  
18 group in Tokyo in terms of working together in a  
19 coherent manner? Is that happening yet, or is that  
20 still some time away? Is everybody in place that  
21 needs to be in place?

22 ALAN: I think we're -- I would like to  
23 wait and see how things go this afternoon. The first  
24 meeting that I sat in on, I think everybody was open  
25 to doing it, everybody understood the need. But I

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1 haven't really seen the follow-up meetings yet, and  
2 the actions moving forward.

3 BRIAN MCDERMOTT: Your meetings, Alan,  
4 were with who?

5 ALAN: The first meeting that I sat in on  
6 was really with various different agencies here in the  
7 embassy, and it was headed by ECON (phonetic), and  
8 they went through -- they all agreed that there was a  
9 need for a list, and --

10 BRIAN MCDERMOTT: These are Japanese  
11 entities?

12 ALAN: No, these were all American.

13 MARIE: Oh.

14 BRIAN MCDERMOTT: Okay.

15 ALAN: This was all, you know, DOE  
16 attache, some military people, and everybody agreed  
17 that yes, we need to do this, it makes a lot of sense.

18 But, as I said before, I'd really like to  
19 get together with State this afternoon when INPO gets  
20 back to the American embassy and sit down and go  
21 through this list and work with them a little bit to  
22 make sure that we're shaping this thing the way that  
23 we need to shape it, and then ensure that it's being  
24 led by the embassy, probably through State.

25 BRIAN MCDERMOTT: Okay. Is any equipment

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1 that's on the NRC list actually making its way to  
2 Japan? Do we know?

3 ALAN: I have not gone through this list  
4 in several days. Typically, DOD was moving ahead with  
5 getting things set up with the barge and pumping  
6 system, and I think that has been making good  
7 progress.

8 As far as robotics and things like that, I  
9 do not have a current update on that. I think DOE, as  
10 well as DOD, they were working those issues.

11 And in part, that's one of the things that  
12 I want to try to get out of the business of doing was,  
13 for example, to have those agencies status the NRC.  
14 All of that should really go through State or the  
15 embassy, who's trying to control that.

16 BRIAN MCDERMOTT: Okay. I wonder if this  
17 lends itself to some kind of easy communication tool,  
18 or the different organizations that touch this. Do  
19 you think that -- I mean, I'm not so interested  
20 (phonetic), is there a chart, or maybe a flow chart or  
21 something that explains what are the different  
22 pathways here for making this thing a go?

23 Do you think a flow chart would help the  
24 different entities participating to understand what  
25 the different wickets are that have to be crossed?

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1 You go this way for a donation, you go that way for  
2 purchase?

3 ALAN: Yeah. That -- I think that may  
4 work.

5 BRIAN MCDERMOTT: And I want you to think  
6 about whether there's a -- somehow, we have to add  
7 some structure to this.

8 ALAN: Right. Right.

9 ROY ZIMMERMAN: Alan, I'm not looking for  
10 your assessment, but I'll just offer to you, an  
11 observation that we heard was that a lot of the  
12 requests coming in that people were of the opinion  
13 that they were not being adequately vetted,  
14 necessarily, within the right levels of the Japanese  
15 government, and that there were -- and I don't know  
16 how that's going to play back to your list, but it  
17 would seem that if the list has all been endorsed and  
18 shared by whoever the counterpart is across the table  
19 at those prime minister meetings, that would be the  
20 endorsement, but it was just a -- an impression that  
21 was expressed by some of the parties on the call.

22 ALAN: I agree, and I think we need to  
23 work that in.

24 ROY ZIMMERMAN: Okay.

25 ALAN: I would really like to drop off

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1 now. We're getting into our 8:00 meeting, unless  
2 there's other items.

3 BRIAN MCDERMOTT: Okay. Very good. Thank  
4 you, Alan. Thanks for giving us your time.

5 ALAN: Okay. Thanks guys.

6 BRIAN MCDERMOTT: Good night.

7 ALAN: So long.

8 MALE PARTICIPANT: It's going to happen  
9 here in about two minutes, in an hour, and there's  
10 another one (inaudible). There's one, I sent the  
11 email.

12 MALE PARTICIPANT 2: Because last night,  
13 it asked for relaxation to once a night, a call, a  
14 7:30 and an 8:00 p.m.

15 They're just relaxing down to once a day,  
16 and they want to perform -- they were going to talk  
17 about that amongst themselves, to come up with the  
18 (inaudible), when it came up, there was some pushback  
19 on wait a minute, you're still in office, you still  
20 want to have (inaudible), and then they were going to  
21 make a recommendation, and that's kind of interesting,  
22 because it turns out that that evening one is the one  
23 that falls on top of the consortium.

24 MALE PARTICIPANT: Oh, now that  
25 (inaudible)?

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1 MALE PARTICIPANT 2: Right. Yeah. So,  
2 God, we did a very scientific method for making  
3 recommendations.

4 MALE PARTICIPANT: Okay.

5 MALE PARTICIPANT 2: We added 0730 to  
6 2030, got 2730, divided by two. And then we just  
7 called it 1:00 a.m.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT 2: (Inaudible.)

10 MALE PARTICIPANT: We were going to do  
11 4:00 in the morning, but --

12 MALE PARTICIPANT 2: Yeah, well, I wanted  
13 to do 4:00 in the morning, but --

14 MALE PARTICIPANT 3: Is this a site team  
15 member?

16 MALE PARTICIPANT: No, well --

17 MALE PARTICIPANT 2: You good, Tom?

18 TOM: Yeah, I'm good, thanks.

19 MALE PARTICIPANT: Thanks, Jim.

20 MALE PARTICIPANT 2: All right. Have a  
21 good -- sayonara. A good morning, I'm sorry.

22 MALE PARTICIPANT: Let me get the  
23 directors in.

24 MALE PARTICIPANT 2: Do you need it?

25 MALE PARTICIPANT: (Inaudible). Yeah,

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1     okay, did they have something that has really changed  
2     overnight, then, I'd like to know that.  Otherwise,  
3     I'm just going to kind of go with, the things are like  
4     they are.

5                 MALE PARTICIPANT 2:     (Inaudible), they  
6     need to go up.  They need -- (inaudible) let them  
7     figure it out, what they want to do there.

8                 The other thing is, I don't -- I think  
9     there's a couple spots on the watch fill (phonetic)  
10    that haven't been filled for the weekend.

11                MALE PARTICIPANT:     Yeah, yeah.  We're  
12    looking at those.

13                MALE PARTICIPANT 2:  So either we fill it,  
14    or I have to do a double on both this job and that  
15    job, so.

16                MALE PARTICIPANT:     Well, the commute's  
17    short.

18                (Laughter.)

19                MALE PARTICIPANT 2:  I could do a 24-hour  
20    day.  I could do that.  I could do a 16-hour shift.  
21    Because, you know -- it pays well.

22                MALE PARTICIPANT:     Well, the log  
23    (phonetic) says you've got a 7:15 with the Chairman.

24                MALE PARTICIPANT 2:     Yes.  So I'm  
25    interested in something that might have happened

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1 overnight that he's not aware of.

2 MALE PARTICIPANT: Okay. Let me start  
3 with the good news and then go to the bad news. Okay?

4 The good news, as far as we know, the plant  
5 conditions remain about the same, radiological  
6 conditions remain about the same.

7 Decay is our friend. I kept telling Roy  
8 Zimmerman yesterday, decay is our friend. As long as  
9 we don't get significant releases, the stuff that's  
10 out there is going to decay down.

11 So, all of those trends continue as  
12 (inaudible) has said. We've noted that. And I'm just  
13 thinking that whoever had this overnight has probably  
14 already relayed at least some of this to you.

15 There was a request from our ambassador in  
16 Japan, relayed through Ludmilla (phonetic), one of our  
17 people over there, that (b)(5)  
18 (inaudible).

19 (b)(5)  
20  
21  
22  
23  
24

25 We think, based on what Sargento

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1 (phonetic) was telling the people that were here at  
2 6:00 a.m., that that request may also be coming up  
3 through Pacific Command, PACOM, which would actually  
4 help us.

5 Step one in this process would be to get  
6 the White House Security Council to DOE and get  
7 (phonetic) an agreement to even do this. We don't  
8 just directly task NARAC to do things anymore. It has  
9 to all be vetted at the White House.

10 MALE PARTICIPANT 2: True, but this is a  
11 White House request.

12 MALE PARTICIPANT: This is an ambassador  
13 to Japan request. So, what was pending as of an hour  
14 or two ago was sending this to the White House, and  
15 what the ET properly said was, what the TFT  
16 (phonetic), what do you think, what would the initial  
17 (inaudible) terms sort of look like?

18 (b)(5)  
19  
20  
21  
22

23 MALE PARTICIPANT 2: Okay.

24 MALE PARTICIPANT: (b)(5)

25 (b)(5)

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1 (b)(5)  
2  
3  
4  
5  
6

7 MALE PARTICIPANT 2: Yes.

8 MALE PARTICIPANT: That's all we have here  
9 in the operations center, so they ran it. You do  
10 that, you still get tag values of how it will go up to  
11 50 miles.

12 MALE PARTICIPANT 2: Now, we're not --  
13 this is where (inaudible).

14 MALE PARTICIPANT: That's what  
15 (inaudible), but we're not convinced that's exactly  
16 right now, because it's a two week test (phonetic),  
17 no, he does short-term things (phonetic), and we know  
18 that there's been more decay, but radical (phonetic)  
19 can't hold it more than 48 hours. It has to belch  
20 (phonetic) at that point, to put a further (inaudible)  
21 on it.

22 MALE PARTICIPANT 2: To handle beyond --

23 MALE PARTICIPANT: So both of us, TNT  
24 (phonetic) recommended to you that a better way to  
25 pursue this source, (b)(5)

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1 (b)(5)  
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16 (b)(5)  
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18  
19

20 They can be working on it, and (b)(5)

21 (b)(5)  
22  
23  
24

25 MALE PARTICIPANT 2: Do you know how long

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1 that might take?

2 MALE PARTICIPANT: I do not know how long  
3 that would take. I know those folks had been looking  
4 at things every day. I would hope that they can do  
5 that within a day or two, but I have not interacted  
6 with them yet. They're not awake yet.

7 Now, if PACOM had also brought its request  
8 up, the White House may already be deciding or  
9 otherwise, yes, we want you to do this, that's fine.  
10 From our standpoint, I think it's -- we went with the  
11 request (phonetic) the last thing, we got this, you  
12 may also be seeking these other pathways.

13 In the agreement, we will stand prepared  
14 to work with NARAC to provide a source term when this  
15 has been agreed, this is what you want to have run, so  
16 that we can agree on adapting the parameters of that  
17 and the source term can be associated with that.

18 MALE PARTICIPANT 2: Today's source term?

19 MALE PARTICIPANT: (b)(5)

20 (b)(5)

21  
22  
23  
24  
25  
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(b)(5)

And actually, this is a post-April 15th revision, because April 15th is when the embassy is planning on returning some people.

So right now, so right now, it's April 15th. Right now, the embassy personnel and dependents, and dependents from the military bases, are released until April 15th. So this is a (inaudible). So, for basically, (inaudible) it's initially (inaudible), so a whole lot changes in that first -- yes.

I'm sorry, it's wrong to use a radical source term at this point.

MALE PARTICIPANT 2: Yeah, what we're concerned about --

MALE PARTICIPANT:

(b)(5)

(b)(5)

MALE PARTICIPANT 2:

(b)(5)

(b)(5)

(inaudible). If we wanted that --

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1 MALE PARTICIPANT: Use super cores  
2 (phonetic). They've already done -- we've done those.

3 MALE PARTICIPANT 2: Right.

4 MALE PARTICIPANT: We've done that. We  
5 don't need that.

6 So that is the piece, with your agreement,  
7 I think as research wakes up, we will start to  
8 interact with them to start describing this. I don't  
9 want to expend too much resource until the chairman  
10 and (inaudible) work with (inaudible), put the thought  
11 process into it with respect to what needs to be done,  
12 and what he needs to be involved, but don't pull the  
13 trigger until they get to do that. But they need to  
14 do that (inaudible) for the chairman.

15 Other than that, Mr. Jenkins (phonetic),  
16 as I said, I think things are holding on.

17 MALE PARTICIPANT 2: The RASCAL constraint  
18 is that it's no longer appropriate because it's for an  
19 operating reactor, or promptly shut down?

20 MALE PARTICIPANT: That's what -- it  
21 promptly shut down, by the accident, the reactor, and  
22 the limitation of the code is it can't hold the source  
23 term in the containment more than 48 hours before  
24 release.

25 MALE PARTICIPANT 2: Oh.

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1 MALE PARTICIPANT: So the best they can do  
2 would be to hold the containment for 48 hours. Now,  
3 that certainly reduces the short term, because you've  
4 played out a bunch of the steps, so you release all  
5 the noble gases --

6 MALE PARTICIPANT 2: Right.

7 MALE PARTICIPANT: -- and everything else,  
8 and it's still only 48 hours old.

9 MALE PARTICIPANT 2: Right. Which is  
10 obviously not the situation.

11 MALE PARTICIPANT: Which is not the  
12 situation. That's right.

13 MALE PARTICIPANT 2: Okay.

14 MALE PARTICIPANT: So it --

15 MALE PARTICIPANT 2: Are you briefing at  
16 7:15? Okay.

17 MALE PARTICIPANT: Do we still -- I mean,  
18 do we feel that all the noble gas is long gone? I  
19 mean, it seems like all the fuel is in a state that  
20 wouldn't hold them.

21 MALE PARTICIPANT 2: The answer depends on  
22 which reactor, and even then, it still depends. In  
23 Unit 1, we'd still have pressure, you've probably  
24 still got noble gasses. This is the RP guy, not a  
25 nuke -- not an RFT (phonetic) guy.

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1 MALE PARTICIPANT: Right.

2 MALE PARTICIPANT 2: Two and three, I  
3 wouldn't believe much of anything, because they're  
4 zero pressure. They're atmospheric. So noble gases  
5 could still be strong in there, but what can leak out  
6 can leak out.

7 And there was some venting already, so we  
8 know they've released some -- there's probably some,  
9 but for that, you need the Mel Corps and the folks  
10 that can really model an action progression through a  
11 long period of time, and build in the current  
12 condition.

13 You do not want a radiation biologist  
14 playing (inaudible), you really don't.

15 That's where we are, sir.

16 MALE PARTICIPANT: Okay. Thank you.

17 MALE PARTICIPANT 2: Take care.

18 MALE PARTICIPANT: You heading out?

19 MALE PARTICIPANT 2: No, I'm going  
20 downtown, but I wanted my last --

21 MALE PARTICIPANT: Oh, okay.

22 MALE PARTICIPANT 2: -- inject before I  
23 leave for the Hill.

24 MALE PARTICIPANT: (Inaudible) the  
25 chairman, or -- you got it.

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1 MALE PARTICIPANT 2: Josh is up on the  
2 bridge, (inaudible) chairman call.

3 MALE PARTICIPANT: Oh, okay.

4 MALE PARTICIPANT 3: Good morning.

5 MALE PARTICIPANT: Good morning.

6 MALE PARTICIPANT 2: Good morning.

7 MALE PARTICIPANT: Good morning, Josh.

8 JOSH: Hello.

9 MALE PARTICIPANT: Does that mean this  
10 meeting is over here, or over there?

11 JOHN CHO (phonetic): This is John Cho  
12 (phonetic) coming up on the conference line.

13 MALE PARTICIPANT: It's here. Is that --  
14 thank you.

15 JOHN CHO: Good morning.

16 BRUCE BOLGER: Good morning. John, this  
17 is Bruce Bolger. I've got the director's job today.

18 JOHN CHO: Great.

19 BRUCE BOLGER: Just a couple of things.  
20 In general, the plant and radiological conditions are  
21 about the same as last night. You know, the trends re  
22 still favorable.

23 JOHN CHO: Good.

24 BRUCE BOLGER: We're working, we're  
25 considering -- in light of the damage in Unit 2 and

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1 Unit 3 cores and containments, our continued effort to  
2 support the next step.

3 JOHN CHO: Yes.

4 BRUCE BOLGER: Now, we still think  
5 inerting is a good idea, but we've got folks that are  
6 going to gather today a reactor safety team to  
7 determine what else might be possible or what things  
8 might remain.

9 The other note that there were some  
10 reports on plutonium being sampled off-site, but I  
11 guess the results are that they seemed to fall within  
12 the range of known plutonium background levels in  
13 Japan anyway.

14 JOHN CHO: Okay.

15 BRUCE BOLGER: Probably the main thing  
16 that I would bring to your attention is that we  
17 received a request (b)(5)

18 (b)(5)

19  
20 JOHN CHO: Okay.

21 BRUCE BOLGER: We're limited in what we  
22 can do with RASCAL. We'll need to have Office of  
23 Research, when they get in today, start supporting us  
24 on that.

25 JOHN CHO: Okay.

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1 BRUCE BOLGER: But what we don't know is  
2 whether this request has actually gone through the

3 (b)(5)  
4

5 JOHN CHO: Yes. Okay.

6 BRUCE BOLGER: -- so, because it's beyond  
7 50 miles. But in order for us to really get the  
8 proper source term, we're going to need additional  
9 help, because the units have been now shut down for a  
10 couple of weeks, things have been released. It's a  
11 different source term than RASCAL can provide us.

12 JOHN CHO: Yes. Okay.

13 BRUCE BOLGER: But other than that, it was  
14 a quiet evening, as I understand it.

15 JOHN CHO: Good. Good. Any -- I know  
16 there's been a lot of discussion about flooding  
17 containment. Any updates on that?

18 BRUCE BOLGER: No, sir, but I'm aware that  
19 -- our feeling is that it's probably a good thing to  
20 start flooding up the containment, at least to the  
21 bottom of the vessel.

22 JOHN CHO: Okay. Good.

23 BRUCE BOLGER: I'll talk to the reactor  
24 safety team when we get them this morning.

25 JOHN CHO: Okay. Good. Anything else you

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1 have, Bruce?

2 BRUCE BOLGER: No, sir.

3 JOHN CHO: Okay. Good. Well, thanks for  
4 the update.

5 BRUCE BOLGER: I'll see you at 8:00?

6 JOHN CHO: Okay, good.

7 BRUCE BOLGER: Okay.

8 JOHN CHO: Bye.

9 BRUCE BOLGER: Bye.

10 JOSH: Bruce? Hello, Bruce?

11 BRUCE BOLGER: Yes?

12 JOSH: It's Josh.

13 BRUCE BOLGER: Yes.

14 JOSH: Just to clarify, he's going to the  
15 White House for the 8:00.

16 BRUCE BOLGER: Okay.

17 JOSH: And then you would be on from  
18 headquarters on the VTP (phonetic).

19 BRUCE BOLGER: Okay.

20 JOSH: Okay?

21 BRUCE BOLGER: Yes, thanks for the  
22 clarification.

23 JOSH: Sure, no problem. We'll see you in  
24 a little bit.

25 BRUCE BOLGER: See you, Josh.

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1 (Silence.)

2 MARTY VIRGILIO: Marty Virgilio coming up  
3 on the ET conference.

4 BRUCE: Good morning, Marty. This is  
5 Bruce.

6 MARTY VIRGILIO: Hey, Bruce. Good  
7 morning. How are you?

8 BRUCE: Doing okay, thanks. And you?

9 MARTY VIRGILIO: Good, thank you. Did you  
10 have a quiet night?

11 BRUCE: I'm coming on, and it seemed like  
12 a quiet night.

13 MARTY VIRGILIO: Good.

14 BRUCE: It was a quiet night, even though  
15 Jim was here.

16 (Laughter.)

17 MARTY VIRGILIO: Good enough.

18 BRUCE: Because I know he's active, and  
19 that is actually a positive comment.

20 MARTY VIRGILIO: Yeah.

21 OPS OFFICER: Sir, this is ops officer.  
22 Whenever you're ready, just give me the word, and I'll  
23 open the conferences and do a roster play-by  
24 (phonetic).

25 MARTY VIRGILIO: Okay.

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1 BRUCE: We're ready, Joe.

2 JOE: Roger that. Stand by.

3 RECORDED VOICE: There are currently 22  
4 participants in your conference.

5 The following people are in the  
6 conference:

7 JOE O'HARA: Joe O'Hara, headquarters  
8 operations officer.

9 TRIP ROTHSCCHILD (phonetic): Trip  
10 Rothschild (phonetic), OGC.

11 DAWN OUTWARDATH (phonetic): Dawn  
12 Outwardath (phonetic), NMSF.

13 MICHAEL MARSHALL: Michael Marshall,  
14 Chairman Jaczko's office.

15 JIM DYER: Jim Dyer, OCFO.

16 KATHY HAYNEY (phonetic): Kathy Hayney,  
17 NMSF (phonetic).

18 PAUL MICHELLACK (phonetic): Paul  
19 Michellack, FSME EO.

20 ERONERY PETERSON (phonetic): Eronery  
21 Peterson, Region 3 Duty Officer.

22 NESEADY COOK (phonetic): Neseady Cook  
23 (phonetic), the Office of the Secretary.

24 BRIAN HARRIS: Brian Harris, OGC.

25 TAD KAPPELMAN (phonetic): Tad Kappelman

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1 (phonetic), Commissioner Svinicki's office.

2 BILL ORDERS (phonetic): Bill Orders  
3 (phonetic), Commissioner Angway's (phonetic) office.

4 TED HEART (phonetic): Ted Heart, SECY  
5 (phonetic).

6 MIKE FRANOVICH: Mike Franovich,  
7 Commissioner Ostendorff's office.

8 MIKE SNODDERLY: Mike Snodderly,  
9 Commissioner Apostolakis's office.

10 BARRY KINGEVER (phonetic): Barry Kingever  
11 (phonetic), FSME.

12 RECORDED VOICE: And now, Region IV.

13 BRAD POWELL (phonetic): Brad Powell,  
14 Region I.

15 ANDY BATES: Andy Bates, SECY.

16 RECORDED VOICE: Roster playback is  
17 complete.

18 BRUCE BOLGER: Good morning, all. This is  
19 Bruce Bolger. I've got the ET director's role this  
20 morning.

21 Just a couple of things to report to you.  
22 The plant and the radiological conditions are about  
23 the same as they were yesterday and yesterday evening.  
24 You know, the trends, although small, are still in  
25 the favorable direction.

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1 We're continuing to consider the strategy  
2 going forward. We believe we have a path, but there  
3 are concerns relative to whether or not there is still  
4 a possibility for an energetic release of fission  
5 products, so the reactor safety team is going to  
6 assemble folks today and make sure we're comfortable  
7 with our understanding in that area, given the  
8 information that we have.

9 Yesterday, there was a report out that  
10 there was some indications that plutonium was sampled  
11 off-site. What's been determined is that it's well  
12 within the range of known plutonium background levels  
13 in Japan.

14 You may recall that Vince Holahan was sent  
15 to Hawaii to support the naval ops there. We're  
16 trying to make sure we can communicate with him on a  
17 regular basis, since he'll be stationed in the SCIF  
18 there.

19 The industry consortium call has been  
20 established. Phone calls have been moved until 8:00  
21 in the evening Eastern Daylight Time so that we can  
22 communicate better with the Japan site team.

23 The other thing that is of note is the  
24 ambassador of Japan -- (b)(5)

25 (b)(5)

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(b)(5)

And that concludes my briefing. Any questions?

TAD KAPPELMAN (phonetic): Bruce, this is Tad Kappelman. I saw something in the news yesterday about there possibly having been core melt through the Unit 2 RP (phonetic) down to the containment. Do we know any more about that?

BRUCE BOLGER: I don't think so. I heard that last time I was on shift, which was last -- Wednesday or Thursday, but never received confirmation. At the time, I actually heard it was Unit 2 and 3, but no confirmation.

TED KAPPELMAN: Okay, thanks.

BILL WATERS: Hey, Bruce. Bill Waters. Energetic release. Can you go a little bit deeper there?

BRUCE BOLGER: Well, that's the concern

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1 whether or not the bottom head (phonetic) could fail  
2 in a way that would release, I guess, molten fuel, and  
3 cause a steam explosion, or a steam-type interaction,  
4 which would produce energy and perhaps disrupt the  
5 Unit 1 dry well integrity.

6 BILL WATERS: So we are talking Unit 1?

7 BRUCE BOLGER: Yes.

8 BILL WATERS: Okay.

9 The strategy last night was, flood up the  
10 primary containment and the vessels. Is that still  
11 the strategy?

12 BRUCE BOLGER:

(b)(5)

13 (b)(5)

14  
15  
16  
17  
18  
19 MIKE SNODDERLY: This is Mike Snodderly.  
20 Any more information on the water level in the Unit 1  
21 turbine building? We heard yesterday that it was  
22 within ten centimeters of overflowing in an area -- to  
23 the ocean.

24 BRUCE BOLGER: I don't know the level. I  
25 understand, though, that they were pumping it into the

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1 condenser base.

2 MIKE SNODDERLY: Thanks.

3 MIKE FRANOVICH: Bruce, this is Mike  
4 Franovich. Welcome back.

5 BRUCE BOLGER: Thanks, Mike.

6 MIKE FRANOVICH: Just to go back to the  
7 energetic issue -- the issue about potential energetic  
8 release here of fission products in Unit 1, is that  
9 under a hypothetical scenario that they loose cooling  
10 and they blaze through the lower head, or is this a  
11 concern about flooding up and maybe shocking the  
12 vessels, if it's very hot, which it doesn't appear to  
13 be, according to a sit report?

14 BRUCE BOLGER: My understanding, Mike, is  
15 that the concern is that all the salt in the bottom of  
16 the reactor vessel might be impeding cooling in that  
17 area, so it would be more of a hot bottom of reactor  
18 vessel issue, rather than a thermal shock.

19 MIKE FRANOVICH: Okay. Okay. Thank you.  
20 Appreciate that.

21 BRUCE BOLGER: Yes.

22 TAD KAPPELMAN: Bruce, this is Tad  
23 Kappelman again.

24 BRUCE BOLGER: Yes, Pat?

25 TAD KAPPELMAN: Back onto the request from

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(b)(5)

BRUCE BOLGER: Yeah. What we have to do, the difficult part is, we have to come up with the source term that's relevant, you know, two weeks after the event, and then we have to work back through DOE and NARAC to get their run. RASCAL only goes 50 miles.

(b)(5)

TAD KAPPELMAN: Okay.

(b)(5)

(b)(5)

BRUCE BOLGER: I'm not aware of that, Tad.

TAD KAPPELMAN: All right. Thanks.

BRUCE BOLGER: You bet.

MIKE FRANOVICH: Bruce, it's Mike Franovich again. Is there a charter or a plan for the consortium that would be available that we could take a look at?

BRUCE BOLGER: I'm checking. Is anybody aware --

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1                   ALAN HOWE:     There's not an explicit  
2 charter.

3                   There is?

4                   Hi, Mike. This is Alan Howe. There's not  
5 an explicit charter.

6                   There is a PowerPoint set of slides that I  
7 looked at yesterday that kind of outlines the  
8 organizations that are involved with it. But that's  
9 one of the things that right now, it's still undefined  
10 as, what is the -- who is the organization that's the  
11 leader for the charter, for the consortium, and what  
12 are the -- you know, what's the scope of their  
13 function?

14                  MIKE FRANOVICH: Exactly. And what is our  
15 role in that mix of the other organizations?

16                  Could we get a copy of those slides to  
17 take a look at, so we get a better picture of who's  
18 involved?

19                  ALAN HOWE: Yes.

20                  MIKE FRANOVICH: Great. Thank you.

21                  ALAN HOWE: Will do.

22                  TAD KAPPELMAN: This is Tad Kappelman  
23 again. Last night we were briefed that the Ops Center  
24 had just received new results at 1800 from aerial  
25 monitoring systems overflights. Have we taken a look

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1 at that data, and is it telling us anything  
2 interesting?

3 BRUCE BOLGER: Yeah, I'd have to check  
4 with the PMT (phonetic). That was not -- they didn't  
5 indicate that there was anything, as of a result of  
6 that review. So we'll check during the day.

7 (Pause.)

8 I'm sorry, was there another question?

9 Other questions?

10 I'm curious whether you folks have -- the  
11 TAs (phonetic) have decided on one phone call or two  
12 phone calls. Is this something you guys were going to  
13 talk about offline?

14 MALE PARTICIPANT: Yeah, I think we  
15 decided last night that we were going to discuss that  
16 at our weekly 10:00 a.m. meeting, which is today,  
17 actually.

18 And then we were going to get some  
19 feedback from the ET about what were more preferable  
20 times for the ET, given the schedules of other  
21 conference calls.

22 BRUCE BOLGER: Okay. Well, good. We're  
23 standing by to support the information flow, and we'd  
24 be happy to engage with it at the proper time or  
25 appropriate time.

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1 PAT KAPPELMAN: Yeah, Bruce, this is Pat  
2 again. We'll let you know, of course. The primary  
3 driver here is whether or not our principals are  
4 finding the twice-daily updates still necessary and  
5 useful, so that's going to be my number one question.

6 BRUCE BOLGER: That works for me. We're  
7 trying to support.

8 PAT KAPPELMAN: Okay, thanks.

9 MALE PARTICIPANT: One of the aspects is  
10 the consortium call is now at 8:00, which I think  
11 conflicts with the assistance call.

12 MALE PARTICIPANT 2: During the evening,  
13 yeah. Yeah, that sounds like new news, yeah.

14 BRUCE BOLGER: Okay. Other thoughts?

15 Okay, that concludes the brief.

16 MALE PARTICIPANT: Great. Thanks, Bruce.

17 MALE PARTICIPANT 2: All right. Thanks  
18 very much.

19 MARTY: Hey, Bruce?

20 BRUCE BOLGER: Yes.

21 MARTY: It's Marty.

22 BRUCE BOLGER: Yes, Marty?

23 MARTY: I had gotten a verbal from the  
24 chairman's office that Department of Defense, DOD, was  
25 taking the lead for the consortium, but I never saw

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1 that in writing.

2 BRUCE BOLGER: The Department of Defense?

3 MARTY: Yeah. DOD. Because of their  
4 logistical capabilities, they seem to be the logical  
5 federal entity to take the lead on the consortium's  
6 activities. But I never saw that written down.

7 SALOMON (phonetic): Marty, this is  
8 Salomon (phonetic). Is this the J-4 group that was  
9 going to take the lead?

10 MARTY: I was told it was the consortium.

11 BRUCE BOLGER: But for DOD, was it J-4?

12 MARTY: No, I don't know that. I was  
13 never told, you know, what organization within DOD.

14 BRUCE BOLGER: Okay. Understand.

15 MARTY: So we may need to follow up with  
16 either -- I would suggest we follow up with either  
17 Josh or Angela today.

18 BRUCE BOLGER: Okay.

19 MARTY: Because that -- I mean, I remember  
20 distinctly hearing back from the chairman's office,  
21 and he was very elated that he had gotten them to take  
22 the lead.

23 BRUCE BOLGER: Well, it sounds like the --  
24 you know, the right group to do it, based upon the  
25 capabilities and things.

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1 MARTY: Yeah. Yeah, that's what I thought  
2 at the time.

3 BRUCE BOLGER: Well, let's see what we can  
4 find out during the day.

5 MARTY: Okay.

6 SALOMON: That matches up that we should  
7 be expecting some guidance from the chairman's office  
8 on that. That's one of the things we heard yesterday,  
9 Marty.

10 MARTY: Well, good. Maybe that will close  
11 the loop on that.

12 TOM BLOUNT (phonetic): Marty, this is Tom  
13 Blount (phonetic), sorry. I had the impression that  
14 there was on the Saturday that the meeting was held,  
15 there was a charter that had been crafted?

16 MARTY: I had not seen a draft.

17 TOM BLOUNT: Oh, okay. For whatever  
18 reason, I had that floating around in my head, and I  
19 think it just might have been because I talked with  
20 Mike about it, and he seemed to think that he had seen  
21 one. But maybe I'm just confused.

22 MARTY: The purpose -- I had laid out a  
23 POP for the meeting, you know, the preference,  
24 objectives, and process, for the meeting that we held  
25 that very first Saturday.

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1 TOM BLOUNT: Right.

2 MARTY: And that could have been converted  
3 -- you could have converted that at your charter. But  
4 I never saw anybody take that next step.

5 TOM BLOUNT: Okay.

6 MALE PARTICIPANT: It sounds like we  
7 probably need to do that, and send it out to the  
8 consortium, and have them decide if we agree, the  
9 line, go on the line, what have you. So, maybe we can  
10 have support team members --

11 MARTY: Well, later today, I can look back  
12 and find that meeting agenda with the purpose,  
13 objectives, and process, and send it back to you.

14 MALE PARTICIPANT: That would be great.  
15 It would be helpful.

16 MALE PARTICIPANT 2: Thank you. That  
17 would give us a good starting point.

18 MARTY: Okay. It will be later this  
19 afternoon, because I'm not near a computer right now.

20 MALE PARTICIPANT 2: Okay.

21 MARTY: All right, guys.

22 MALE PARTICIPANT: Catch you later, Marty.  
23 Bye.

24 MARTY: All right. Thanks. Bye now.

25 (Silence.)

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1 ROY ZIMMERMAN (phonetic): Roy Zimmerman's  
2 (phonetic) here.

3 KATRINA: Hi, Mr. Zimmerman?

4 ROY ZIMMERMAN: Yes.

5 KATRINA: If you hold one moment, I'm  
6 going to connect you with the Chairman. This is  
7 Katrina, by the way. How are you today?

8 ROY ZIMMERMAN: Thank you. Good. How are  
9 you today?

10 KATRINA: I'm good. One moment, I'm  
11 connecting.

12 (Pause.)

13 CHAIRMAN: Hi, Roy.

14 ROY ZIMMERMAN: Hi, Chairman. Good  
15 afternoon.

16 CHAIRMAN: How are things going?

17 ROY ZIMMERMAN: Going okay. I've got you  
18 on the speaker phone here with the team leads. I can  
19 walk through a number of different things quickly, and  
20 you stop me as you see fit.

21 CHAIRMAN: Okay.

22 ROY ZIMMERMAN: We've made contact with  
23 Vince Holahan in Pearl Harbor with the Pacific  
24 Command, and getting arrangements for logistics with  
25 him set up, so --

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1 CHAIRMAN: Good.

2 ROY ZIMMERMAN: That's just at the  
3 starting stage. Feedback that I got on my turnover  
4 from the deputy's meeting that you went to was that  
5 PACOM's looking for a DCA (phonetic) heat loading  
6 associated with an energetic.

7 CHAIRMAN: Yeah.

8 ROY ZIMMERMAN: When will it not be an  
9 issue, and our reactor safety team is looking into  
10 that.

11 CHAIRMAN: Yeah.

12 ROY ZIMMERMAN: There was an issue from  
13 Department of State that they were looking for pre-  
14 warning signs that can lead to abandonment or  
15 evacuation of the units or the site.

16 CHAIRMAN: Yeah.

17 ROY ZIMMERMAN: It sounded like that did  
18 not get tasked.

19 CHAIRMAN: Okay. Well, I think that's  
20 more being worked -- I think with -- there's kind of a  
21 task force that's looking at next steps for protective  
22 action planning, and I think our PMT (phonetic) folks  
23 are hooked into that. If they're not, they should be.

24 ROY ZIMMERMAN: Okay. So we'll --

25 CHAIRMAN: It's -- the US context, there

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1 are planning doc tools that are being used to kind of  
2 guide what might develop in a way that could cause us  
3 to do additional things with US citizens, and the  
4 point that I made was that most of those are based --  
5 you know, that the more severe events appear to be  
6 based on spent fuel fires.

7 And that to get to a spent fuel fire, you  
8 likely are going to have to have some kind of  
9 triggering event for that, which would mainly be one  
10 of the reactors having a more significant release,  
11 which causes contamination in the area, which prevents  
12 you from continuing to work to manually supply water  
13 to the pools.

14 And given that scenario, you'd likely have  
15 some amount of time, possibly days, before you would  
16 lose all the inventory in the pools, and would then  
17 potentially have the possibility of a fire.

18 ROY ZIMMERMAN: All right. Let me add a  
19 couple of thoughts, if I could.

20 CHAIRMAN: Yeah.

21 ROY ZIMMERMAN: Going back to the very  
22 first point you raised, we'll work with PMT (phonetic)  
23 to see if we can make the connections back to this  
24 working group, and see if we can get ourselves  
25 involved.

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1 A more significant issue deals with the  
2 spent fuel pool, and what sounds like a more positive  
3 sense of spent fuel pool filling that you may have  
4 received in Japan --

5 CHAIRMAN: Yeah.

6 ROY ZIMMERMAN: -- than the reactor safety  
7 team believes is the case.

8 CHAIRMAN: Okay. So we think that that --  
9 my assessment -- do you think that my assessment was  
10 inaccurate?

11 ROY ZIMMERMAN: The thinking here -- I'll  
12 answer it roundabout, first. Our thinking here is  
13 that the pool 3 and 4 are either very low or empty.

14 CHAIRMAN: Okay.

15 ROY ZIMMERMAN: And that their assessment  
16 that the surge tank, the skimmer system --

17 CHAIRMAN: Yeah.

18 ROY ZIMMERMAN: -- is an erroneous symbol  
19 for what's actually occurring in the spent fuel pool.

20 CHAIRMAN: Okay.

21 ROY ZIMMERMAN: So we see a serious issue  
22 remaining and a difficult one, at least for Unit 4,  
23 because of the fact that on one hand, you need to put  
24 water in there to keep it cool, but then there was  
25 concerns about the structure after the explosion, of

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1 whether it will even be able to handle the load of a  
2 lot of water in the pool.

3 CHAIRMAN: Yeah.

4 ROY ZIMMERMAN: (b)(5)

5 (b)(5)  
6  
7  
8

9 They're indicating that they're looking  
10 for help with the spent fuel to remove it from the  
11 spent fuel pool, but they, at the same time, say the  
12 spent fuel pools are filled with water.

13 CHAIRMAN: Yeah.

14 ROY ZIMMERMAN: (b)(5)

15 (b)(5)

16 CHAIRMAN: Okay. Well, can you make sure,  
17 have we done the next SITREP?

18 ROY ZIMMERMAN: To make sure in the next  
19 SITREP that we say (phonetic) -- we have been saying  
20 in the SITREPs that water level is very low. We don't  
21 say, perhaps dry, but we do say, very low.

22 CHAIRMAN: Okay. Well, if you can  
23 particularly just specifically comment to the fact  
24 that the timelines that I provided may be optimistic,  
25 because it sounds like that's what you're telling me

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1 is that we might not have three days or so after an  
2 energetic event at one of the reactors.

3 ROY ZIMMERMAN: Right. Because we're not  
4 talking about boil-down of a spent fuel pool, that  
5 there's little to no water in there now.

6 CHAIRMAN: Okay. Okay. So, if you can  
7 make sure in the next SITREP or do an update to the  
8 SITREP that gets out to people that clarifies that  
9 point that I made --

10 ROY ZIMMERMAN: Okay.

11 CHAIRMAN: -- that may -- that was based  
12 on my direct conversation with the Japanese indicating  
13 that the pools were -- had more inventory, that, you  
14 know, and you can just say that based on an update  
15 that you've given me, that, you know, that may not be  
16 a reliable estimate.

17 ROY ZIMMERMAN: Will do.

18 CHAIRMAN: Okay.

19 ROY ZIMMERMAN: We have a -- let's see.

20 (b)(5)

21  
22 CHAIRMAN: Yes.

23 ROY ZIMMERMAN: --

(b)(5)

24 (b)(5)

25  
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1 area.

2 CHAIRMAN: Okay.

3 ROY ZIMMERMAN: We'll work that out, but  
4 we're waiting for White House approval before we start  
5 that work.

6 CHAIRMAN: Okay.

7 ROY ZIMMERMAN: We'll coordinate with DOE.  
8 The consortium call at 8:00 --

9 CHAIRMAN: Okay.

10 ROY ZIMMERMAN: -- my own take on this,  
11 that I've got a call into Mike Weber to talk about it  
12 a little bit, is trying to understand what success  
13 looks like for these consortium call.

14 We still seem to be in the thick of  
15 things, so we have not extricated ourselves, and the  
16 ET directors seem to be the folks who are picking up  
17 the lead for it.

18 So the other attendees may very well be  
19 the same people, but the NRC people come and go,  
20 depending on who's on shift, and you know, it's not  
21 the op tech (phonetic) that's the desirable one we  
22 want to have.

23 But ultimately, I think we're still  
24 waiting for the White House to assign the lead for the  
25 consortium activities to get supplies over to Japan to

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1 another agency, but right now, that hasn't occurred  
2 yet.

3 CHAIRMAN: Okay.

4 ROY ZIMMERMAN: Did I tell you anything  
5 that was different than what you expected to hear?

6 CHAIRMAN: No.

7 ROY ZIMMERMAN: Okay. So we'll continue  
8 to work on that.

9 CHAIRMAN: Good.

10 ROY ZIMMERMAN: We're working on Rev 1 of  
11 the severe accident approach to account for climate  
12 conditions (phonetic).

13 CHAIRMAN: Okay.

14 ROY ZIMMERMAN: There's a call at 7:00  
15 tonight, with all of the usual suspects internally,  
16 our folks in GE and DOE and naval reactors and all of  
17 the typical folk to be working on it.

18 The radiological conditions are about the  
19 same at the site. Nothing really to report there.  
20 And I think I'll stop there.

21 CHAIRMAN: Okay. Yeah. So, okay, well,  
22 that's helpful. I'm a little bit concerned that maybe  
23 I was a little too optimistic this morning with my  
24 timelines, so --

25 ROY ZIMMERMAN: You were just reporting on

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1 what you heard from Japan, so.

2 CHAIRMAN: Yeah. Well, and I was making  
3 some conclusions, but I hate to get in a different  
4 place from where you all are technically.

5 So, but I think I gave people a greater  
6 sense that we have more time than possibly we may not  
7 in terms of having to take action, so I probably want  
8 to get that corrected as soon as possible.

9 ROY ZIMMERMAN: Okay. Did you actually  
10 use quantitative times?

11 CHAIRMAN: I did. I said -- well, I said,  
12 based on the information I was told in Japan, they  
13 anticipated about six days for boil-off in the number  
14 4 pool, and I did get that when I was in Japan.

15 And I said, I've heard estimates as short  
16 as three days, so, you'd probably be looking at, you  
17 know, having at least three days of planning.

18 And that's what led to the point about,  
19 well, what would the triggers be that we knew we had  
20 to start doing something? And that was what led to  
21 that conversation.

22 You know, I said, there would likely be  
23 some signal that would tell us, okay, this is going to  
24 deteriorate more rapidly.

25 ROY ZIMMERMAN: Okay.

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1 CHAIRMAN: And again, I think the  
2 assumption is -- I mean, is, it's still -- the  
3 assumption is still that the pools, by themselves, are  
4 not necessarily going to have a problem, as long as  
5 they're continuing to put water in them.

6 ROY ZIMMERMAN: Correct.

7 CHAIRMAN: So the issue still -- the  
8 trigger still is, when they lose the ability to  
9 manually add water to the pools.

10 ROY ZIMMERMAN: Right.

11 CHAIRMAN: What would be different is,  
12 whether in fact we would then have boil-off time or  
13 not.

14 ROY ZIMMERMAN: Okay.

15 CHAIRMAN: I think, unless I'm -- tell me  
16 if I'm incorrect from my assessment.

17 ROY ZIMMERMAN: No. It sounds as though  
18 we're looking at each other, and what you said sounds  
19 reasonable.

20 CHAIRMAN: Okay. I mean, the other thing  
21 I said is, look, you could also have an additional  
22 earthquake or something that could cause structural  
23 damage to the pool that would lead to a quicker  
24 release of water from the pools --

25 ROY ZIMMERMAN: Right.

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1 CHAIRMAN: -- but I said there is a  
2 timeline -- you know, there is a timeline issue that I  
3 think is missing from the discussion, that this isn't  
4 an instantaneous event, you know, regardless, you  
5 would have some amount of time, you know, because if  
6 you have some water level and you have some boil-off  
7 of that. But maybe we could just correct that the  
8 three to six days that I said may be overly  
9 optimistic.

10 ROY ZIMMERMAN: Optimistic.

11 CHAIRMAN: Yeah.

12 ROY ZIMMERMAN: Okay. We will do that.  
13 Other things that we've talked about, I don't have an  
14 update for, you know, we've talked about the barges --

15 CHAIRMAN: Yeah.

16 ROY ZIMMERMAN: And as far as I know,  
17 they're on their way and all of that.

18 CHAIRMAN: Okay.

19 ROY ZIMMERMAN: So everything that got  
20 passed on, I passed on to you.

21 CHAIRMAN: Okay, good. Good.

22 ROY ZIMMERMAN: All right. We also,  
23 yesterday, turned off the 8:00 commissioner assistant  
24 briefing, so their calls are now about 9:00 or so in  
25 the morning, it's either 9:00 or 9:30.

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1 CHAIRMAN: Okay.

2 ROY ZIMMERMAN: It's 10:00. I'm hearing  
3 10:00 every morning.

4 CHAIRMAN: Okay, good.

5 ROY ZIMMERMAN: All right. Any questions  
6 or thoughts for us?

7 CHAIRMAN: No, if you can just follow up  
8 with anyone, we've kind of gotten that correction out,  
9 and make sure specifically, maybe in the email that  
10 goes out, say that there are updates to the comments I  
11 made at the deputy's meeting about timelines.

12 ROY ZIMMERMAN: We'll try to put that into  
13 the existing SITREPs so we don't have to issue a  
14 separate SITREP position to point that out.

15 CHAIRMAN: Good. An again, you can point  
16 it out -- I don't have a problem with you pointing it  
17 out. I'm not worried about that at all. I'd rather  
18 it gets corrected before people walk away with an  
19 incorrect assumption.

20 ROY ZIMMERMAN: Understand. We'll take  
21 care of it.

22 CHAIRMAN: Okay, good.

23 ROY ZIMMERMAN: Thank you.

24 CHAIRMAN: Thanks, Roy.

25 ROY ZIMMERMAN: Bye.

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1 CHAIRMAN: Bye.

2 ROY ZIMMERMAN: Okay, so that's something  
3 to work with with Sarah.

4 MALE PARTICIPANT: Yes. Well, I just gave  
5 her my comments, although --

6 (Silence.)

7 MALE PARTICIPANT: Vince? (Phonetic)

8 VINCE (phonetic): Hey, good morning.

9 MALE PARTICIPANT: I've been waiting all  
10 day to say Aloha to you.

11 VINCE: Well, thank you very much. As you  
12 might expect, it's death by bugraph (phonetic) and  
13 death by meeting here, right now.

14 (Laughter.)

15 I just managed to break away from four  
16 continuous hours of meetings. I'm in a, I guess, a  
17 hole right now, and we start again in about two hours.

18 MALE PARTICIPANT: So you got a little bit  
19 of a break?

20 VINCE: So, hey, I'm calling for a couple  
21 of reasons. I'm trying to set up some of these  
22 liaison relationships here at PACOM back to the NRC,  
23 and the first one I'm trying to deal with right now is  
24 I understand that there's an NRC consortium call at --  
25 I guess it would be 19:00 your time, 13:00 here?

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1 MALE PARTICIPANT: It's 8:00 eastern time.  
2 20:00.

3 VINCE: 20:00. I have a Navy captain,  
4 Futrell (phonetic), he is in the J-9 office, and the  
5 question would be, is would it be possible for him to  
6 call in and at least listen to that call?

7 The reason I ask that is the J-9 is  
8 primarily responsible for coordinating a lot of the  
9 transfer of equipment, movement of supplies, and  
10 things like that, and what we'd like to do is at least  
11 make sure that the requests that are coming through  
12 the Japanese self-defense force are at least parallel  
13 or consistent with what's going on in the civilian  
14 side.

15 MALE PARTICIPANT: That sounds great.

16 VINCE: That being the case, could we have  
17 a number for him to call into?

18 MALE PARTICIPANT: Yeah, probably the best  
19 thing to do is just call into 301-816-5100.

20 VINCE: And where do we want to redirect  
21 him to?

22 MALE PARTICIPANT: On to the consortium  
23 phone call.

24 VINCE: Consortium phone call?

25 MALE PARTICIPANT: That's affirmative.

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1 VINCE: And I want to confirm that's then  
2 at 20:00 eastern standard time, which would be 14:00  
3 here.

4 MALE PARTICIPANT: Yeah.

5 VINCE: Okay. Good. The other thing  
6 we're going to be doing is I'm going to be making a  
7 couple of other calls. (b)(5)

8 (b)(5) And one of the  
9 things that we're going to try to set up is a daily  
10 call with the RST.

11 MALE PARTICIPANT: That's excellent, too.

12 VINCE: The reason for that is the  
13 information they're getting right now is all coming  
14 out of the NRC summary, but I really would like these  
15 folks to talk to some of the guys in the RST, and  
16 drill down with some other questions, because they're  
17 getting a lot of detailed questions from the admiral  
18 up here, how long is the incident going to go on, why  
19 are we getting spiking in temperatures in R1, is this  
20 going to be under control in six weeks, or is this  
21 more like six months, are we looking at some, you  
22 know, chrome (phonetic) criticality type incidents?  
23 Because the fuel configuration -- they've got a number  
24 of questions.

25 MALE PARTICIPANT: That's fine. They're

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1 all challenging questions, and again, the reactor  
2 safety team, if you can pass on, is very busy. They  
3 have a lot of requests -- theirs is obviously very  
4 important -- but to keep in mind that we are fielding  
5 a lot of requests from the White House and from other  
6 locations similar to there.

7 VINCE: Well, you know what, we're  
8 anticipating now is initially, it would be just RST.  
9 Then they might want to do a combination call, first  
10 with RST and possibly the PMT.

11 MALE PARTICIPANT: I can see that coming,  
12 and that makes sense as well.

13 VINCE: Based on their op tempo here, with  
14 their battle rhythm, right now, a time that they might  
15 be interested in, and I've got a point of contact, I  
16 can talk to the RST directly, but right now, they're  
17 looking at what would be probably 11:00 hours here,  
18 17:00 time your time, which would be 5:00 in the  
19 afternoon.

20 MALE PARTICIPANT: Right now, essentially.

21 VINCE: Yeah. Not right today, but it  
22 would be this time frame.

23 MIKE WEBER: Hey Jim, this is Mike Weber.  
24 You know, one of the things that we've experienced  
25 that you may be hearing a little bit about it out

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1 there from PACOM is this eternal quest for, give me  
2 one parameter to monitor that will tell me whether  
3 things are going south.

4 And I'm sure, you appreciate, we don't  
5 have one parameter.

6 VINCE: No, I understand that. We passed  
7 that along.

8 MIKE WEBER: Okay. Good. I just don't  
9 want these calls to degrade into -- but what, one  
10 parameter, because that's not going to be productive.

11 MALE PARTICIPANT: There's no easy button.

12 VINCE: No, you have to understand that  
13 these folks, they're looking at the status of all  
14 three reactors, they're looking at the spent fuel  
15 pools.

16 They're looking at doses in the trenches.  
17 They're worried about stuff getting out into the  
18 ocean. They're the ones that are going to be  
19 providing the bladders if they start transferring that  
20 water into the bladders.

21 They're the ones that are possibly going  
22 to be giving up those barges that are bringing the  
23 water up, apparently, they're talking about  
24 transferring water into those barges.

25 MALE PARTICIPANT: Understood.

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1 VINCE: They're just looking for, what's  
2 going on there, what do they need to support, and how  
3 can they anticipate that.

4 MALE PARTICIPANT: It's all clear, and  
5 we'll give you the support that we can.

6 VINCE: Okay. That sounds good. And you  
7 know, the last thing, I'm going to give Jim Whitney a  
8 call.

9 (b)(5)  
10  
11  
12  
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21 MALE PARTICIPANT: Very good. Do you have  
22 the phone number that you need for the consortium call  
23 tonight?

24 MALE PARTICIPANT 2: Well, we still have  
25 to call the Ops Center, but we actually have a

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1 specific number, then.

2 MALE PARTICIPANT: Yes. It's 800 --

3 VINCE: Let me write this down. Hold on.

4 Let me flip the page here.

5 Okay, (b)(6)

6 MALE PARTICIPANT: (b)(6)

7 VINCE: (b)(6)

8 MALE PARTICIPANT: -- (b)(6)

9 VINCE: -- (b)(6)

10 MALE PARTICIPANT: And the pass code is

11 (b)(6)

12 VINCE: Okay. I copied that as (b)(6)

13 (b)(6)

and the pass code is (b)(6)

14 MALE PARTICIPANT: That's correct.

15 MIKE: Hey, Jim?

16 VINCE: Yeah, Mike.

17 MIKE: (b)(5)

18 (b)(5)

23 VINCE: That does not max out?

24 MIKE: Yes. We've been seeing a variety  
25 of products, and unfortunately, from a temperature

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1 perspective, what it says -- it has a footnote that  
2 says, you know, we can't read anything greater than  
3 that.

4 VINCE: Okay. Well, that's something I  
5 can pass along and see if they can noog (phonetic)  
6 that out.

7 MIKE: Yeah. And then I think Jim can  
8 work with the RST to ask those kind of questions about  
9 -- as you were proposing.

10 VINCE: Yeah. I think Jim would be a good  
11 liaison.

12 (b)(5)  
13  
14  
15  
16  
17

18 MIKE: Wow..

19 VINCE: -- you can do some correlation.  
20 They've got a lot of capabilities here with the data  
21 management.

22 MIKE:

(b)(5)

23 (b)(5)  
24  
25

VINCE: Oh, okay.

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1 MIKE: That was then, this is now.

2 VINCE: Well, just so you've got it, it's  
3 a Colonel Traub, T-R-A-U-B. He's an Air Force  
4 Colonel. I'll make sure he gets in touch with Jim.  
5 I've already given him Jim's contact information, and  
6 they've got his ICEE (phonetic) contact information as  
7 well.

8 MIKE: Very good. Is there anything we  
9 can do for you?

10 VINCE: Right now, it's just making sure  
11 that I stay out of trouble, I think.

12 MIKE: I'm not sure we can help you with  
13 that.

14 (Laughter.)

15 MIKE: You know, it's -- I've been  
16 appreciating a lot of the updates that have been  
17 coming up, whether it be the Chairman's call or  
18 anything else like that.

19 What I found today, if I'm up by about  
20 4:30, 5:00, I can get a situational awareness so I  
21 don't walk in cold to the 7:30 brief with Admiral  
22 Train (phonetic), who's the J-2, and then I'm getting  
23 questions from the Marine Corps three-star at 8:30 as  
24 to what's going on with the reactors, and do we think  
25 it's cooling down.

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1           So any information I can get. But again,  
2           what I'm trying to do is I want to get the staff here  
3           to talk to our staff so they're prepared to answer  
4           those questions themselves.

5           MIKE: Very good. Is Admiral Willard  
6           (phonetic) coming back from Japan, or is he staying  
7           out there for a while?

8           VINCE: I think it's a short-term trip,  
9           because I think he's heading back to New York and DC  
10          in the latter part of the week. I think he's got to  
11          go to Congress.

12          MIKE: Okay. All right. Well, it was a  
13          good connection. I hope all of our connections are  
14          this clear.

15          MALE PARTICIPANT: Hey, Vince?

16          VINCE: Yes?

17          MALE PARTICIPANT: Have you heard anything  
18          about the J-4 logistics team, and when they're  
19          expected to be in Tokyo? Is that something that's  
20          being discussed there?

21          VINCE: Yeah, it should be. I can track  
22          that down.

23          MALE PARTICIPANT: That would be helpful,  
24          because I think that bears on our consortium  
25          leadership discussion.

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1 VINCE: So you're wanting to know when the  
2 J-4 team is going to be on the ground?

3 MALE PARTICIPANT: In Tokyo. We  
4 understood that there was a miscommunication, and  
5 apparently, the embassy turned that team off from  
6 arriving, but we understand also that Chuck  
7 reactivated that request and confirmed that they were  
8 needed there in Tokyo.

9 VINCE: I'll track that down.

10 MALE PARTICIPANT: All right. We'll let  
11 you go and take advantage of a little bit of down  
12 time.

13 VINCE: Well, now, I've got more  
14 phonecalls to make.

15 MALE PARTICIPANT: Okay. Sorry.

16 VINCE: I want to give Jim Whitney a heads  
17 up, and see if we can make an introduction when Pat  
18 McCabe (phonetic) here wants to talk to the RST and  
19 see if they can set up some conference calls. It  
20 wouldn't be for today, but they just want to do some  
21 quick introductions.

22 MALE PARTICIPANT: Okay. Thanks for being  
23 out there.

24 VINCE: Here to serve.

25 MALE PARTICIPANT: All right. Thank you,

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1 Vince.

2 VINCE: Have a good shift.

3 MALE PARTICIPANT: All right. You as  
4 well.

5 VINCE: Okay.

6 Bye-bye, now.

7 (Silence.)

8 (CONFERENCE CALL CONCLUDED)

9

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3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 THURSDAY

7 MARCH 31, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Dan Dorman (phonetic),  
DOE Office of Nuclear Energy.

KEVIN MULLIGAN: Good evening. Kevin  
Mulligan, INPO (indiscernible, possibly "ER State").

RICK NIELSEN: Rick Nielsen, INPO.

RANDY TRAPASSO: Randy Trapasso, INPO.

TOM VAVOSO: Tom Vavoso, Naval Reactors.

LIEUTENANT COLONEL PRICE: Lieutenant  
Colonel Price, U.S. Pacific Command, and I will also  
have the radiation support team in attendance.

ALAN BLAMEY: Alan Blamey, NRC Japan team.

MALE PARTICIPANT: (Inaudible) Lynch  
(phonetic), INPO.

MALE PARTICIPANT: Industry support team,  
Tokyo, Japan.

MALE PARTICIPANT: (Indiscernible name),  
Naval Reactors.

LIEUTENANT COLONEL CRAIG GADDIS:  
Lieutenant Colonel Craig Gaddis (indiscernible,  
possibly "of the joint staff".)

BRIAN SHARON: Okay. Is that everybody?  
This is Brian Sharon at the NRC. I'm the Executive  
Team director at NRC for this evening, and I've got a

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1 number of people here with me.

2 I want to thank you all for taking the  
3 time to sign in again and participate in the call. I  
4 was asked if everybody could email in their email  
5 addresses so that we know how to get the minutes out.

6 FEMALE PARTICIPANT: A name and  
7 affiliation.

8 BRIAN SHARON: Yes, with your name and  
9 affiliation, and where do they email it to?

10 FEMALE PARTICIPANT: et05.hoc@nrc.gov.

11 BRIAN SHARON: Did everybody hear that?

12 MALE PARTICIPANT: Could we try that again  
13 please?

14 BRIAN SHARON: Okay. It was  
15 et05.hoc@nrc.gov. So if you could just email in your  
16 name and affiliation and obviously then we'll get your  
17 email address and that way we'll know we'll be able to  
18 get these minutes out to everybody that's  
19 participating.

20 With regard to the agenda, I think a lot  
21 of the stuff has been discussed in the previous call  
22 like yesterday in terms of the organizational issues  
23 and stuff. I didn't really have anything in  
24 particular.

25 Before I move on to the next, which is the

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1 status of the requests we have, I was going to ask if  
2 anybody participating does have any issues or comments  
3 they want to discuss regarding roles and leads.

4 (No response)

5 BRIAN SHARON: Okay. Hearing none, what I  
6 was going to do is then turn -- I think everybody also  
7 got a draft of the Japanese government action items  
8 and material request list. My understanding, this was  
9 forwarded to you all earlier today. Does everybody  
10 have a copy?

11 RICK NIELSEN: I'm looking at the -- this  
12 is Rick Nielsen from INPO -- we got a copy earlier  
13 this morning and it was difficult to tell if that was  
14 the most current version or the one that was used for  
15 the previous night.

16 BRIAN SHARON: Well, yes, there's one  
17 that's (indiscernible) from 7:30 p.m. today. I'm not  
18 sure if you all have that. It says that these are  
19 forwarded out at 7 o'clock, 3 o'clock in the  
20 afternoon, it looks like 7 o'clock and 11 o'clock.

21 And I'm not sure how much has changed from  
22 yesterday, so what I was going to suggest is that if  
23 INPO could walk through the status of the items that  
24 were assigned to them as the coordinating agencies if  
25 there's anything new or different.

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1 RICK NIELSEN: This is Rick Nielsen. We -  
2 - I did not get the -- if one was sent out this  
3 afternoon, I did not get one. But I did send in a  
4 marked-up copy with track changes for our requested  
5 changes that were in red. So that will bring ours --  
6 that is completely up to date as of this afternoon.

7 BRIAN SHARON: Okay.

8 MALE PARTICIPANT: I think that's the one  
9 that we have, yes.

10 BRIAN SHARON: Yes, I think that's the  
11 copy we have here that's dated 7/30, because we do  
12 have changes on it that are in red.

13 TOM VAVOSO: This is Tom Vavoso, Naval  
14 Reactors. I did not get an update either. It would  
15 be good if something could be sent out to all the  
16 people that got the appointment, at a minimum.

17 BRIAN SHARON: Yes, we are going to see if  
18 we can send it out right now. But I guess, from the  
19 update here from INPO, it looks like a lot of the  
20 items were closed out. Is that correct?

21 MALE PARTICIPANT: That is correct. So  
22 the closed items are the things marked closed. We  
23 won't be providing the update on them as we go forward  
24 unless there's a change or unless there's a request  
25 from the government of Japan for what that particular

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1 item used to be. Is that okay?

2 BRIAN SHARON: Yes, okay. I guess the  
3 only other item -- the other items I had on here,  
4 there was one item here that was a request from the  
5 government of Japan directly to Pacific Northwest labs  
6 for technical assistance for water decontamination and  
7 storage issues, and just, we are -- this request did  
8 not come into us and we were not coordinating it, so  
9 my understanding now is the direct request from the  
10 government of Japan to Pacific Northwest and I believe  
11 there's one or two individuals from PNNL that are on  
12 their way over to Japan.

13 SAL GOLUB: Brian, this is Sal Golub. I  
14 can talk to that issue.

15 BRIAN SHARON: Okay.

16 SAL GOLUB: So, Dr. Oneesi (phonetic) and  
17 Barry Reid (phonetic) should have arrived yesterday in  
18 Japan. They are going to be working directly with the  
19 government of Japan contacts that requested their  
20 participation, so I think we could close that item.

21 BRIAN SHARON: Okay.

22 MALE PARTICIPANT: What was the item  
23 number for that one?

24 BRIAN SHARON: I'm sorry?

25 MALE PARTICIPANT: It was item 12 on page

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1 4 of the other day's sheet.

2 MALE PARTICIPANT: Okay, thank you.

3 BRIAN SHARON: What I would suggest is  
4 that if there are updates like that, if the  
5 responsible organization could either send in a markup  
6 or just in your email, tell us which items are closed  
7 and the like, and then we can update it here.

8 The next one is with CENTCOM, the water  
9 barges. Yes, go ahead.

10 LIEUTENANT COMMANDER MERCER: This is  
11 Lieutenant Commander Mercer. Update on the water  
12 barges. The first water barge arrived at 15:42 Japan  
13 time yesterday. The schedule that was put out by the  
14 Japanese joint staff was that they were going to start  
15 pumping fresh water from the barge to one of the  
16 storage tanks on the site last night.

17 I do not have confirmation that they  
18 actually did that. We are working that through our  
19 bilateral channels to find out the answer to that.  
20 And then barge number two is still in Onahama, and  
21 projected underway time for that to leave to head to  
22 Fukushima is some time during the day today, and there  
23 were some issues with the transfer pump there, and  
24 that's what's been the delay on getting barge number  
25 two up to Fukushima.

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1 BRIAN SHARON: Okay. Okay. I guess the  
2 only other item you had was the request for military  
3 air transport and the comment here is that first  
4 choice should be a commercial carrier for timely  
5 delivery, and they should limit their request for  
6 material that is difficult for a commercial carrier to  
7 deliver.

8 And, let's see. I guess, did anybody --  
9 how do we get this -- does anybody know how we get  
10 this recommendation in back to Japan? I guess we need  
11 to do that or --

12 LIEUTENANT COMMANDER MERCER: Well,  
13 there's a couple of ways for that to happen, and what  
14 I had understood from -- this is Lieutenant Commander  
15 Mercer -- from yesterday's call was that the embassy,  
16 and I don't know if one of them is on the line, I  
17 apologize, I came in a couple of minutes late. If  
18 they, if they generate what the request is and then  
19 they can send that to us formally, because it will  
20 have to be done formally, then we can go out and push  
21 that up, up our chain to get the transportation set  
22 up.

23 So, in the comment that commercial would  
24 probably be more expeditious, I think that is a good  
25 comment, except for, you know, some of the heavier

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1 items, like I believe that there are portal monitors  
2 which are going to be a challenge for a commercial  
3 carrier.

4 But that's how I understand the process.  
5 At a minimum, we can, from my end, working with our  
6 logistics people here at the United States Forces  
7 Japan, we can also parallel path that and try to get  
8 that transportation requirement established.

9 So I guess what I would need to know right  
10 now is, from the INPO side, have you had any movement  
11 on a commercial carrier for that, or does this  
12 military transportation request still exist and still  
13 is it your best path?

14 RICK NIELSEN: This is Rick Nielsen. The  
15 way we are right now, I would say that commercial  
16 would be the appropriate way to transport some of the  
17 items. We have probably four boxes in -- well, there  
18 are around four boxes in southern California, San  
19 Diego area, that would need to be transported, so  
20 commercial would be terrific for that.

21 There's about -- in south Texas, Houston  
22 area, there's about half a pallet and a drum that have  
23 the equipment (inaudible) to be sent. So that could  
24 also probably be commercial.

25 The material in Ontario is -- that's a

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1 substantial weight and volume, and just, which -- ever  
2 seems to be that the best way (inaudible) it would be  
3 appropriate there, but it seems like military might be  
4 the best (inaudible) there.

5 We don't have a preference. It's just  
6 whichever is expedient. The important thing is, is  
7 that understanding, if it is commercial, how it will  
8 be paid for. So that's really the issue to us.

9 BRIAN SHARON: Okay.

10 LIEUTENANT COMMANDER MERCER: Okay. So I  
11 will continue to work this with my logistics staff  
12 here at United States Forces Japan. And for Rick,  
13 would you be the main POC for these -- I'm assuming  
14 any of the portals that are -- portal monitors that  
15 are up at Bruce?

16 RICK NIELSEN: Yes, that's correct and you  
17 can use me for right now. The situation at Bruce is,  
18 well first of all the situation at San Onofre in  
19 California and South Texas is they are ready to ship  
20 at any point, so they can ship immediately.

21 The hand and foot monitors at Bruce, we  
22 need about five days to finish up there, boxing them  
23 up. What they wanted to do is make sure -- they  
24 started out with 120 of these and they were in various  
25 stages of calibration, so they wanted to

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1 (indiscernible, possibly "choose the ones that work"),  
2 only shipping 20 now, they wanted to choose the ones  
3 that were in the best calibration. So they are  
4 checking those out right now so that the best will be  
5 delivered to Japan.

6 LIEUTENANT COMMANDER MERCER: Okay,  
7 understand. Thank you.

8 LIEUTENANT COLONEL CRAIG GADDIS: Hey,  
9 this is Lieutenant Colonel Craig Gaddis of the joint  
10 staff. If I could jump in real quick. Just to make  
11 sure everyone on the (inaudible) understands, the  
12 initial comment on the military versus commercial  
13 transportation was not in any way to dissuade the use  
14 of military air versus commercial air. It was an  
15 attempt to portray to everyone the fact that the path  
16 of least resistance for, you know, small packages at  
17 various locations, probably would be commercial air.

18 If something was appropriate and the best  
19 solution was military air, then you know, everyone  
20 will get behind and support a military airlift.

21 But if I could just point out one final  
22 thing, Pacom has been given the authority by the  
23 Secretary of Defense to expend funds to transport  
24 things in support of relief efforts in Japan.

25 That is why I have said in the past that

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1 any airlift, whether commercial or military, that is  
2 paid for by military funds that have been delegated at  
3 Pacom, the airlift (indiscernible, possibly "is in a  
4 class that needs to be") validated and coordinated  
5 through the Pacom staff, and if the Pacom JFOR  
6 (phonetic) staff is online, I would advise them to  
7 comment as well.

8 BRIAN SHARON: Okay, thanks.

9 RICK NIELSEN: This is Rick Nielsen again.

10 We appreciate those comments. We have no preference  
11 in how any of this is shipped, so we understand also  
12 what you are talking about in terms of the priorities  
13 there too. So there is no preference on our end. We  
14 just want the most expedient way.

15 BRIAN SHARON: Okay. I guess I would have  
16 to leave it up, then, for INPO to decide what's the  
17 quickest way to ship stuff.

18 RICK NIELSEN: I can only say one thing  
19 about that. We may not know if -- if for example at  
20 Bruce, I'm not in a position to determine which is the  
21 best way, whether it's military or commercial on that.

22 It just seems like it would be quite expensive for  
23 commercial and maybe less so for military.

24 So I would leave it up to the logistics  
25 experts to make that determination. For South Texas

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1 and San Onofre, it seems pretty apparent to us that  
2 commercial would be a lot more expedient and probably  
3 just as inexpensive.

4 BRIAN SHARON: Okay. Next item --

5 TOM VAVOSO: Wait, this is Vavoso, so how  
6 does this one gets resolved? I don't see the path  
7 forward on this one.

8 (Inaudible, multiple speakers)

9 GLENN SOUTHERN: This is Glenn Southern  
10 from Naval Reactors as well.

11 ALAN BLAMEY: This is Alan from the Japan  
12 team. Who is the point of contact from INPO?

13 RICK NIELSEN: Rick Nielsen. I am the  
14 point of contact.

15 ALAN BLAMEY: Okay Rick. Let me --  
16 yesterday there was a large push at the embassy to  
17 start to put a process in place that we could work on  
18 bringing some efficiencies to this, and coordination.

19 So let me get with the logistics people  
20 here at the embassy, and if we can get those people in  
21 touch with you, Rick, that should, I believe, start  
22 the process moving forward of getting these items  
23 shipped.

24 What is your telephone number, Rick?

25 RICK NIELSEN: Okay. The number that you

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1 can reach me is 770-644-8118, and I'll say that again,  
2 770-644-8118, and there is someone there 24/7 but that  
3 is also the number where I am during the day.

4 A cell number for me that I can be reached  
5 anytime is (b)(6)

6 ALAN BLAMEY: Okay, so that's 770-644-8118  
7 and your cell number is (b)(6)

8 RICK NIELSEN: That's correct.

9 ALAN BLAMEY: Okay.

10 BRIAN SHARON: Okay, it sounds like that  
11 one is under control now in terms of who's got the  
12 action on it.

13 ALAN BLAMEY: Yes, let us verify it here  
14 with the embassy staff and we can report out on it  
15 tomorrow.

16 BRIAN SHARON: Okay, great.

17 RICK NIELSEN: Thank you very much.

18 BRIAN SHARON: Okay, the next items down  
19 are DOE. It looks like it's item 15 through 18, let's  
20 see. It's right through 21.

21 SAL GOLUB: Yes, Brian, this is Sal. I  
22 can update a few of those items.

23 BRIAN SHARON: Okay.

24 SAL GOLUB: Item number 15, that's that  
25 NRC has provided the source term and NARAC had done

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1 the run. The results had been provided to the White  
2 House for review as of a day or two ago. I haven't  
3 been able to confirm yet whether the product actually  
4 has gone to Japan.

5 I was hoping one of our representatives  
6 from the embassy would be joining in the call and Ron  
7 Cherry had said he was going to send me a spreadsheet  
8 that might answer some of these things but I didn't  
9 get that yet. So when I provide my red line comments,  
10 I may have a more up to date status on that particular  
11 item.

12 BRIAN SHARON: Okay.

13 SAL GOLUB: I don't have anything to  
14 report on items 16, 17 or 18. On item 19, there was a  
15 two-hour meeting yesterday. Al Hochevar, you might  
16 have participated in that, dealing strictly with the  
17 robotics issue.

18 And there's been a -- there's been a lot  
19 of detailed information provided on the particular  
20 robotic equipment, sensors, gammacams, radiation  
21 hardened cameras that were available and when we could  
22 provide those, and now we are just waiting for the  
23 government of Japan to respond back and then we will  
24 be rolling back into that pervasive issue of funding  
25 and transportation.

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1 We believe -- we have at least identified  
2 --

3 JAY TILDEN: Sal. Sal.

4 SAL GOLUB: Go ahead.

5 JAY TILDEN: It's Jay Tilden. I'm on.

6 SAL GOLUB: Jay.

7 JAY TILDEN: It's looking guardedly  
8 optimistic on this and really, the tactics here is,  
9 commercial air, we agree with you, when possible use  
10 commercial air. We are trying to work through some  
11 very simple issues like how do we get this stuff off  
12 the books, how do we make sure that we are, you know,  
13 not looking for some of this equipment a year from now  
14 when we do our property control pieces, as well as how  
15 do they accept; and the very simple thing is they  
16 haven't told us where to deliver. You can't just show  
17 up at Narita, pop it off at the end of the runway and  
18 leave.

19 So -- and as mentioned, there is a lot  
20 going on with the use of robotic devices, and the  
21 whole approach, which of course is a joint nuclear  
22 energy, and it's across the whole board here in DOE,  
23 of how are they going to use this equipment and what  
24 equipment do we have available versus what can they  
25 get directly from industry. So we hope to have this

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1 shipment out the door on the 5th of April.

2 BRIAN SHARON: Okay. So -- but in terms  
3 of the logistics of payment and transportation, that's  
4 something you'll work out?

5 JAY TILDEN: So, yes, I believe right now,  
6 under our Secretary's authority, we are going to  
7 utilize our dollars to ship. We will, on the devices  
8 we need to replace, we will just reallocate money to  
9 replace these devices so that we can have them. We  
10 will be having a cost capture effort, where we can  
11 track all the dollars, and we will wait for the larger  
12 national policy folks to decide whether or not we are  
13 going to eat the costs, whether or not supplemental is  
14 going to be in order, or whether or not we are going  
15 to ask for reimbursement under various international  
16 and/or bilateral vehicles. So --

17 BRIAN SHARON: Okay. Okay.

18 SAL GOLUB: We are also looking at the  
19 larger robotic devices, like the unmanned cranes --  
20 not cranes, bulldozers and (inaudible) and things like  
21 that that can be used later on for rubble removal at  
22 (inaudible) and D&D. Jay, did you want to say  
23 anything about that?

24 JAY TILDEN: Yes, so we did have a long  
25 discussion, and this is an -- it's an area where we

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1 know they are going to need them. The good news is,  
2 there is lots of very good commercial equipment out  
3 there available.

4 We don't -- we don't know the lag time.  
5 So our rule here is pragmatism. If the Japanese -- if  
6 we find out, either we call directly or the Japanese  
7 call directly and find out that the lead time for this  
8 equipment puts in jeopardy the safety and the  
9 stabilization operations, and we have something that  
10 we think we can get there that is equal to, or  
11 whatever, then I think we will probably go ahead and  
12 move out smartly on getting it there.

13 It's when you get to these larger things  
14 that we were thinking, you know, military lift. I  
15 mean some of these things may be so big, I mean,  
16 that's the problem. The problem is you may be forced,  
17 you know -- again, I'm not a logistician from the Air  
18 Force, so I don't know what your full lift capability  
19 is. But some of these devices can be pretty major and  
20 I just -- getting it there is going to be an issue.  
21 We'll have to take it one step at a time.

22 We are also going to be providing them  
23 advice on shielding. We may find that some of these  
24 things, you actually don't buy the full up systems.  
25 You actually buy commercial systems already in Japan

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1 and just automate them. That's not as hard as one  
2 would think.

3 But there's a lot of things to work out,  
4 you know, when you have a lot of automated devices and  
5 wireless systems around radiation, a lot of unintended  
6 things could happen. So this is going to be a very  
7 dynamic, as you go, problem.

8 BRIAN SHARON: Okay. Let's see. I think  
9 the next one is, let's see --

10 MALE PARTICIPANT: The K-MAX helicopter?

11 BRIAN SHARON: Yes, the use of an unmanned  
12 helicopter, K-MAX.

13 MALE PARTICIPANT: Can I ask, what's that  
14 for?

15 BRIAN SHARON: I don't know, personally.  
16 I'm looking at the chart and there's really no  
17 explanation as to what the purpose was. It was a  
18 request, apparently.

19 And I remember from last week there was a  
20 thought -- someone had offered an unmanned helicopter  
21 to go over the plant and I think there was some  
22 thought whether it could either lift and carry water  
23 to dump onto the pool or even just with a camera.

24 And I'm -- personally I'm not sure if it's  
25 needed right now.

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1 TOM VAVOSO: This is Tom Vavoso, Naval  
2 Reactors. I think that's right. In the early days  
3 this was offered as a means of putting water or sand  
4 on top of these spent fuel pools.

5 I think we may be at the point now where  
6 it needs to be revalidated from a technical needs  
7 standpoint. So who would have the lead to go after  
8 that? It sounds like it would need to get --

9 BRIAN SHARON: I think the embassy would  
10 be the appropriate conduit to ask the Japanese  
11 government if they still need it.

12 MALE PARTICIPANT: Right, so let me jump  
13 in on this. I completely agree. You know, one of the  
14 things that is going to be an interesting balancing  
15 act as we go down the technical aspects of this  
16 stabilization, if we can ever get to stabilization, is  
17 making sure that they are not just asking for stuff  
18 that -- we have to have them tell us in very succinct  
19 terms, you know, what is the intent here.

20 I think they are getting much better at  
21 that. I think early on they were asking for  
22 everything and anything. (b)(5)

23 (b)(5)

24  
25  
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1 But if we need to get in close, there are  
2 -- you are (indiscernible, possibly "already  
3 weighing") UAVs that we have at Idaho, and so I would  
4 suggest that the robotics and automatic equipment  
5 working group, which is -- I just made that name up,  
6 there we go -- but the folks that meet on this, we  
7 ought to bring that up again to find out if there is a  
8 real need here, and that's with the Japanese  
9 interagency team.

10 So I'm fine if we let Chris Cherry/whoever  
11 else we want -- I'm sorry, Ron Cherry or whoever else  
12 we want at the embassy to do that. But I think there  
13 are cheaper ways to do a lot with unmanned other than  
14 this \$25 million creature. So --

15 BRIAN SHARON: Well let's, let's -- I  
16 mean, I agree. Let's find out exactly what it is they  
17 are trying to accomplish.

18 AL HOCHVAR: This is Al Hochevar and  
19 maybe I can shed some light on that. The assets were  
20 initially requested to ascertain what the status and  
21 level of the spent fuel pools are.

22 It's not quite clear for units 1, 3 and 4,  
23 what those levels are, so they are trying to get  
24 something in close so they can take a look and see  
25 what the levels are, how much water to put in, or if

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1 in fact the spent fuel pools are intact and what the  
2 condition of the fuel is. So that's the generation of  
3 that request.

4 MALE PARTICIPANT: Got it.

5 TOM VAVOSO: This is something different  
6 though, this helicopter, I think, has heavy lift  
7 capability, you know, thousands of pounds.

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: So this was not for  
10 that purpose, I don't believe.

11 LIEUTENANT COMMANDER MERCER: No, the  
12 purpose of -- this is Lieutenant Commander Mercer --  
13 was for removal of debris if we had to get through the  
14 collapsed roof debris that's on, you know, 1, 3 and 4,  
15 and, like Mr. Vavoso said, the possibility of using it  
16 for carrying heaving loads of water or sand to the  
17 units.

18 The other thing is, we need to double  
19 check this with the embassy, but I'm pretty sure the  
20 government of Japan came back and said thanks for the  
21 information, thanks for the idea, but not at this  
22 time.

23 So I'm pretty sure, from my understanding,  
24 that this is, this is already a closed issue from the  
25 Japanese perspective, but again, I'd wish somebody at

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1 the embassy to confirm that.

2 ALAN BLAMEY: This is Alan Blamey with the  
3 Japan team. I'm not sure if we have anybody else on  
4 from the embassy but I'll follow up with DOE as well  
5 as some of the other embassy people. I believe we  
6 have an 11 o'clock meeting today to see if that can be  
7 confirmed.

8 BRIAN SHARON: All right, that would be  
9 great if you can confirm that. That would then get  
10 this off the list, then.

11 GLENN SOUTHERN: Can I recommend that you  
12 guys put a name and a point of contact for everybody  
13 that has got the lead for each of these items, instead  
14 of just the organization?

15 BRIAN SHARON: Okay.

16 GLENN SOUTHERN: It's Glenn Southern.

17 BRIAN SHARON: I'm sorry?

18 GLENN SOUTHERN: My name is Glenn Southern  
19 from Naval Reactors. But my recommendation is,  
20 instead of an organization, you actually have a name  
21 next to each of these action items.

22 BRIAN SHARON: Yes. Okay. Well, okay.  
23 So who from the embassy was going to take this?

24 ALAN BLAMEY: This is Alan Blamey from the  
25 NRC Japan team.

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1 BRIAN SHARON: All right Alan. All right,  
2 so you're going to take the action on this then?

3 ALAN BLAMEY: I'm going to -- yes, I'm  
4 going to take the action and bring it up within the  
5 embassy to verify if it's still needed or not.

6 BRIAN SHARON: Okay. Great. Okay. Let's  
7 see. Next is -- these are the fun ones, they've got  
8 question marks next to them under coordinating agency.  
9 Fresh water supply pumps from Bechtel. Coordinating  
10 agency had INPO with a question mark next to it. This  
11 is (inaudible) INPO action.

12 RICK NIELSEN: Brian, I'll -- this is Rick  
13 Nielsen -- we initially helped get Bechtel involved in  
14 this and then our role diminished substantially. In  
15 fact, Bechtel essentially took over with the liaising  
16 with the NRC on this and just getting it moved from  
17 Australia to Japan.

18 So we're not sure if we are the  
19 coordinating agency or not here. We would be happy  
20 just to be representing the industry and Bechtel as  
21 part of the industry to continue in that role, but it  
22 seems to have evolved to the point that that level of  
23 coordination isn't needed.

24 So we'll --

25 MARK: This is Mark (indiscernible)

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1 surname) from the NRC. I'm not sure we still need to.

2 I think this effort was started when they were trying  
3 to figure out how they were going to put water in the  
4 spent fuel pool.

5 MALE PARTICIPANT: Well, I thought the  
6 pump was actually delivered, right? The first one?

7 MALE PARTICIPANT: The first train was  
8 delivered, yes.

9 MALE PARTICIPANT: Right.

10 MALE PARTICIPANT: And about the training  
11 that goes with that and so forth, Bechtel was handling  
12 that, weren't they, I think.

13 TOM VAVOSO: Right, this is Vavoso, Naval  
14 Reactors, again. I think the main issue here is there  
15 were four trains in -- four pump trains in  
16 preparation. There's still a lot of pumping to be  
17 done at that plant, and the question is should the  
18 second, third and fourth pump train be delivered or  
19 not.

20 MALE PARTICIPANT: I thought the original  
21 plan was they were going to deliver one train and test  
22 it and see if it, you know, provided what they were  
23 looking for, and then make a decision on whether the  
24 other trains would be necessary.

25 The last I had heard the second train was

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1 already being prepped in Australia for shipment, but  
2 that was the last I heard of it.

3 MALE PARTICIPANT: The first train is what  
4 is being used for the fresh water barge pumping  
5 system. So that's where the first train is. And we  
6 did give training to the TEPCO representatives on  
7 Monday, Tuesday, this week.

8 LIEUTENANT COMMANDER MERCER: Commander  
9 Mercer. Was that for just the first barge, or is it  
10 the second one? Or is this -- is this not attached to  
11 the barge?

12 MALE PARTICIPANT: It's -- the booster  
13 pump, which is the smaller of the two, is attached,  
14 welded onto the first barge. The larger pump is  
15 basically being kept as a contingency pump if  
16 something happens to that booster pump, or if  
17 something needs to be changed to pump into the second  
18 barge.

19 So they are going to keep that larger pump  
20 from the train at J-village. So that whole train is  
21 tied up right now as part of the fresh water barging  
22 system.

23 MALE PARTICIPANT: All right, so the  
24 technical need question is, is there a need for  
25 anything more?

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1 ALAN BLAMEY: And this is Alan Blamey at  
2 the embassy again. If we don't have anybody that can  
3 answer that, let me see if I can work through and  
4 confirm if they are going to need the second, third  
5 and fourth trains at the site.

6 BRIAN SHARON: Okay. Great, Alan.

7 RICK NIELSEN: Rick Nielsen again here on  
8 that. It sounds like the coordinating agency has  
9 shifted then, is that correct?

10 MALE PARTICIPANT: I don't believe that is  
11 going to be INPO. I think that would probably be  
12 either DOD or NRC and I know DOD has been doing a lot  
13 of the heavy lifting with the logistics and moving it  
14 from point A to point B. We have been supporting  
15 those efforts.

16 MALE PARTICIPANT: Let's look at it from a  
17 next action standpoint.

18 ALAN BLAMEY: Next action standpoint, I  
19 think that would be with the NRC to try and make a  
20 determination if train 2, 3 and 4 are needed.

21 MALE PARTICIPANT: Do we have a name?

22 ALAN BLAMEY: Alan Blamey.

23 BRIAN SHARON: Alan is going to check, you  
24 know, through the embassy, with either TEPCO or with  
25 the -- or NISA to find out if they need the additional

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1 pumps, and then report back.

2 ALAN BLAMEY: Yes, and at this point in  
3 time I don't want this to either stop or delay any  
4 momentum that we have moving forward on it, but we  
5 will report back on the status as to if we want to  
6 have train 2, 3 and 4 there, because I am just not up  
7 to speed on the current status. We had some other  
8 people working this, and if we are already in the  
9 process of moving them to the site, I do not want to  
10 slow that down.

11 BRIAN SHARON: Gotcha.

12 MALE PARTICIPANT: Would they be used on  
13 the second barge?

14 ALAN BLAMEY: Say that again.

15 MALE PARTICIPANT: There's a second barge  
16 coming, would they be -- would the second train be  
17 required for the second barge?

18 ALAN BLAMEY: I am not 100 percent sure.  
19 I believe -- I, I, I am not 100 percent sure.

20 LIEUTENANT COMMANDER MERCER: This is  
21 Lieutenant Commander Mercer again. I would say no.  
22 The TEPCO plan for that second barge is to -- they  
23 have acquired their own booster -- or transfer pump  
24 for that and again, they have the larger of the  
25 Bechtel pumps set up as a contingency for that whole

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1 fresh water barge system. So I would say at this point  
2 no, a second train wouldn't be needed for the second  
3 barge.

4 MALE PARTICIPANT: Okay, one thing to keep  
5 in mind, the NRC Reactor Safety Team just put out a  
6 paper today that talks about recommending adding  
7 additional water to the containment, so there may be  
8 further need for pumping capability at the site.

9 MALE PARTICIPANT: This is (inaudible). I  
10 agree with that. I mean, besides the shielding and  
11 the Radiac needs, fresh water pumping capability is  
12 going to be an ongoing battle over the next few weeks  
13 and months, and we definitely need to ask the question  
14 if they are still looking for these trains.

15 BRIAN SHARON: Yes. Okay, well, Alan is  
16 going to take that action and report back, and so NRC  
17 has that action. I am going to move down the list.  
18 The next one, 24, was read survey meters, individual  
19 dosimeters. This was supposedly a duplicate of item 1  
20 and the recommendation was to delete it, and that's  
21 fine unless anybody has any concerns.

22 There was one here which I don't have any  
23 background on, number 25, says protective body armor  
24 and there is no coordinating agency listed, and I'm  
25 not quite certain what the purpose of the request was.

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1 RICK NIELSEN: This is Rick Nielsen. This  
2 may have been something that we have provided  
3 information on. There was a kind of a vague request at  
4 one point for protective armor that provided some  
5 input about use of tungsten as a light weight  
6 shielding and also data protection using a  
7 (indiscernible, possibly "arranged") gear instead of  
8 using the cloth-based or Tyvek anti-contamination  
9 clothing.

10 So we provided that information advice,  
11 but that's the closest I can think of anything that we  
12 may have provided to address this.

13 MALE PARTICIPANT: Has there been a  
14 request from Japan?

15 BRIAN SHARON: Well I don't know, I mean,  
16 yes, the question is -- presuming that the Japanese  
17 government, well, I don't know if they requested it or  
18 if we just provided that as information.

19 MALE PARTICIPANT: No, this was on the  
20 list that the government of Japan sent. It was one of  
21 the first lists we saw. They referred to protective  
22 body armor. There might have been a translation issue  
23 in exactly what that is, but it did show up on their  
24 list, and it sounds like INPO has provided some basic  
25 information on what's available, and this is one

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1 that's now in Japan's court to decide what to do with.

2 So, somehow we need to track those items.

3 BRIAN SHARON: I hate to ask Alan again,  
4 but in your -- when you sit down with NISA or TEPCO,  
5 could you ask them if they could either clarify  
6 request --

7 ALAN BLAMEY: You could put it in my court  
8 right now, but we are in the process right now of  
9 trying to finalize a process that we have to actually  
10 go back and interface with the government of Japan --  
11 I guess I would say it's probably a more rigid  
12 framework than what we had before, so that some of the  
13 details can be fleshed out a little bit more, and we  
14 could have some more follow-up, and that should come  
15 as part of that.

16 But specifically for this, if I'm not  
17 mistaken there were two requests. I think the  
18 military got a very similar request than what came out  
19 of the government of Japan back to the NRC.

20 So I haven't heard the follow-up as to  
21 whether they still want it or not, and I'm not sure if  
22 the military has already provided some of the -- this  
23 type of protective body armor or not.

24 MALE PARTICIPANT: So let me be so bold as  
25 to suggest that if you want to keep the original

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1 terminology, great. But somewhere in there what you  
2 are talking about is protective body shielding, and  
3 that's -- that's what they are going to be wrestling  
4 with, right? If they're not going to -- going to be  
5 sending in humans into harm's way, how are they going  
6 to do it.

7 MALE PARTICIPANT: Just for clarification,  
8 the request memorandum is dated 25 March, 2011 and the  
9 title is, "The request to the United States government  
10 from the government of Japan," and it's item 11 on  
11 this memorandum and it says, "Provision of the sets of  
12 protective body armor." And the lead agencies on the  
13 Japanese side is NISA and MOD.

14 MALE PARTICIPANT: Right, I'm just saying  
15 that we have to realize that they are translating, and  
16 what we don't want to be doing is shipping them  
17 ballistic-treated stuff.

18 BRIAN SHARON: Well that's what I mean.  
19 We need to get a clarification of exactly what it is  
20 they want, because I don't know what body armor is  
21 either. I mean -- Alan, is that something you might  
22 be able to talk with NISA about?

23 ALAN BLAMEY: Yes, we'll see if we can  
24 have our protective measures people interface with  
25 their protective measures people.

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1 BRIAN SHARON: All right, good. We need a  
2 clarification on what is this body armor and what do  
3 they really mean, and then the other question is, do  
4 they still need it.

5 ALAN BLAMEY: Yes.

6 RICK NIELSEN: Rick Nielsen here again.  
7 On item 3 and a half, I guess, between 3 and 4, that  
8 gave a pretty extensive list of possibilities to them  
9 in terms of this is what's available, these are the  
10 specifications and so forth.

11 So that's one thing that can be mentioned  
12 when discussing this with the government of Japan.

13 Just going back to article number 26, that  
14 was a -- we supplied that information to the  
15 government of Japan. That was a list of Radiacs and  
16 protective clothing that was at cost, and the total  
17 cost was like \$1.1 million. So 26, they have that  
18 information for action.

19 BRIAN SHARON: Okay. All right. Let's  
20 see, 27. It says use of extinguish (inaudible). I  
21 don't know what that is, slash, coolant nitrogen with  
22 a question mark. Does anybody have any idea what that  
23 is?

24 MALE PARTICIPANT: Oh, it's probably a bad  
25 idea. If you are thinking about trying to dump

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1 nitrogen on top of six or eight megawatts of heat  
2 coming off-of a collapsed reactor, it's probably not a  
3 good idea.

4 BRIAN SHARON: I would agree.

5 MALE PARTICIPANT: Wait a minute, there is  
6 a need for nitrogen to purge the containments. I  
7 don't know if that's what this is, but there is a need  
8 for nitrogen.

9 So I don't know how this got on the list.  
10 We have got to sort out what this is referring to.

11 MALE PARTICIPANT: I believe this request  
12 came quite some time ago and we haven't been able to  
13 figure out the specifics behind it.

14 MALE PARTICIPANT: And again, that's in  
15 the same 25 March memo, and they've got as the lead  
16 contact agency on their side as NISA and it's verbatim  
17 in the memo as it is in the spreadsheet here. So  
18 that's who we have to clarify this, is NISA.

19 BRIAN SHARON: Okay. Alan, can you get a  
20 clarification on that?

21 ALAN BLAMEY: Yes, we've tried. We'll do  
22 it again. But with this one --

23 BRIAN SHARON: All right, you know, it  
24 seems a little strange to think that they don't have  
25 any nitrogen in that country.

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1           ALAN BLAMEY: Oh no, we agree, and I think  
2 when you take a look at the way they plan to go  
3 through an emergency containment state, at this point  
4 in time they are planning to use air compressors, not  
5 air compressors, but you know, nitrogen compressors.

6           So you know, I don't necessarily think  
7 that that's what this particular time was. We have  
8 tried, and based upon the work we have done so far, we  
9 really can't pin down the specific item that NISA was  
10 requesting.

11          BRIAN SHARON: Okay.

12          MALE PARTICIPANT: And it seems that we  
13 need a process to inform them that we are closing that  
14 item and they're going to take no further action.

15          ALAN BLAMEY: Absolutely, and that's one  
16 of the things that I mentioned earlier that we are  
17 working on here at the embassy, is trying to put that  
18 framework in place.

19          MALE PARTICIPANT: All right, great.

20          BRIAN SHARON: Okay, 28 is plastic bottles  
21 for drinkable water for infants/baby use, and that was  
22 assigned to USAID. Is anybody from USAID on the  
23 phone?

24          (No response)

25          BRIAN SHARON: Okay, I'll (indiscernible,

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1 possibly "start gathering in") out here. So we'll  
2 have to do some further checking on that one  
3 separately.

4 MALE PARTICIPANT: We have liaison down  
5 there. We can check with them.

6 BRIAN SHARON: Okay.

7 MALE PARTICIPANT: So let me give you a  
8 little bit of -- this topic came up, so I think we are  
9 seeing some of these earlier requests that were very  
10 disjointed by the government of Japan. For instance,  
11 we received a request to ship lead and I'm like,  
12 "Really, you don't have lead in your country?"

13 So I know on the DOD call that happened  
14 yesterday at 5:15, the topic of water for this, that  
15 same wording, came up, an DOD had already moved  
16 smartly to get water in the country and then they --  
17 they, the government in Japan, said stop, no, actually  
18 we are having a problem distributing it and we don't  
19 think we need it.

20 So agree, we need to -- agree we need to  
21 get that nailed down, but I think some of these really  
22 are a function of early requests that were very  
23 quickly sent out the door. So --

24 ALAN BLAMEY: We had heard the same thing  
25 here at the embassy with the water.

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1 BRIAN SHARON: Okay. Alan, could you put  
2 that on your list of things to revisit with the  
3 Japanese government and just find out if they still  
4 need it or not?

5 ALAN BLAMEY: Sure.

6 BRIAN SHARON: Okay.

7 MALE PARTICIPANT: Did you say you have an  
8 AID point of contact there?

9 MALE PARTICIPANT: We have a liaison  
10 person 24/7 at USAID, that's (indiscernible, possibly  
11 Jeff someone). We can check with them and work  
12 through USAID channels. That probably is better  
13 handled not on this list but some other list.

14 MALE PARTICIPANT: Yes, I think that would  
15 probably be more appropriate because you may have more  
16 updated information than I would have on that  
17 particular issue. We haven't been really -- the NRC  
18 hasn't been following the humanitarian side as closely  
19 as some other people have.

20 MALE PARTICIPANT: We do believe that we  
21 can probably take this off the list as long as we are  
22 certain that it is on somebody else's humanitarian  
23 list at USAID.

24 BRIAN SHARON: All right good. Jeff, you  
25 get the action to work with USAID. The 29 is

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1 determine whether temporary radwaste processing skids  
2 are available or it would be a good idea for removing  
3 contaminated water. This says INPO is the  
4 coordinating organization.

5 MALE PARTICIPANT: Yes, I think Randy  
6 Trapasso, I know Randy Trapasso has the lead on skids.  
7 The update in there under the current status is the  
8 wrong wording. That's my fault. I was answering the  
9 wrong question on that. Randy, are you on the line?

10 RANDY TRAPASSO: Yes, I'm still on the  
11 line. We sent over to Al Hochevar a list of the  
12 options for water processing along with contact names,  
13 numbers and emails for their use to see if that's what  
14 they wanted.

15 BRIAN SHARON: Okay.

16 RANDY TRAPASSO: Another item on this list  
17 that was closed out.

18 BRIAN SHARON: I'm sorry, this was

19 RANDY TRAPASSO: Yes, it was -- it's a  
20 duplicate of something that is earlier on in the list  
21 that we closed out several days ago.

22 MALE PARTICIPANT: It's closed out from a  
23 U.S. initial response standpoint. It's open for the  
24 Japanese to make a decision on, right?

25 RANDY TRAPASSO: That is correct.

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1 MALE PARTICIPANT: So that has to be  
2 tracked in that way, somehow.

3 RANDY TRAPASSO: Well, what we did was we  
4 gave the names and numbers (indiscernible, possibly  
5 "of the people") that have this data processing  
6 capability and they would call those people directly.

7 ALAN BLAMEY: Well, one of the messages  
8 that we had been talking about over here at the  
9 embassy, and while it's not final yet, these are some  
10 of the thoughts that we had.

11 We were concerned about continuing to hold  
12 all of these items open if we are waiting on a  
13 response from the government of Japan. Our initial  
14 view was, if they requested information, once we  
15 passed that information to the appropriate government  
16 entity here in Japan, that would then be closed. And  
17 once the government entity determined what specific  
18 items they wanted, then they should initiate another  
19 request for assistance and then that new request for  
20 assistance with those very specific items on it, we  
21 would then open a new request for assistance and start  
22 to move forward on making, you know, getting those  
23 particular items that they were requesting.

24 So that's the discussions we had  
25 yesterday. That has not been finalized yet. But as

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1 we move forward, I believe this list will probably be  
2 consolidated and collapsed into the master list that  
3 the embassy has.

4 So, think about that, and perhaps in the  
5 call tomorrow, if anybody has any additional thoughts  
6 or they do not think that will work, let us know and  
7 we can factor that back into the work that we are  
8 doing here.

9 MALE PARTICIPANT: Well that seems fine,  
10 as long as the Japanese recognize that they now have  
11 the ball.

12 ALAN BLAMEY: And that's part of -- I know  
13 the economic section here, under the leadership of  
14 Mark Wall, he has started, I believe last night, he  
15 talked about perhaps talking with his Japanese  
16 counterpart, and start to float this idea that -- the  
17 process that we are trying to put in place to perhaps  
18 bring more structure and discipline to it, which would  
19 allow us to execute a little bit more effectively than  
20 what we have in the past.

21 So, I haven't had feedback, I believe  
22 there's an 11 o'clock meeting today. So we will get  
23 any feedback on how they received it last evening, and  
24 perhaps over the next couple of days, its framework  
25 will start to be put in place.

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1 MALE PARTICIPANT: INPO will be in favor  
2 of closing these out and opening the new action.  
3 That's how we treat internally the requests and how we  
4 deal with them internally.

5 MALE PARTICIPANT: But we wouldn't open a  
6 new request until we got a specific request from the  
7 Japanese government, correct?

8 MALE PARTICIPANT: Exactly.

9 BRIAN SHARON: All right, so we will  
10 consider this closed and then if we hear anything else  
11 from the Japanese government on this, we can reopen it  
12 as necessary.

13 MALE PARTICIPANT: And I would probably  
14 recommend opening a new item with specific actionable  
15 activities that can be executed.

16 BRIAN SHARON: Okay. Let's move on to  
17 number 30, which is temporary holding tank for  
18 removing contaminated water. This listed DOE and DOD  
19 --

20 MALE PARTICIPANT: Brian, I can talk about  
21 this one and the next two that are pretty much  
22 related.

23 BRIAN SHARON: Okay.

24 MALE PARTICIPANT: So, similar to the way  
25 we approached the initial request for robotics and

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1 UAVs, what we did here is we developed a list of  
2 capabilities, equipment and expertise that was  
3 available in the DOE complex. We provided that to the  
4 Japanese. We have established a dialogue with them.  
5 We are communicating back and forth now, and it all  
6 revolves around collecting, storing, treating and  
7 dispositioning of the contaminated water that is  
8 either in the turbine building basement or ultimately  
9 that we extract from the reactor coolant.

10 So, we are working that. We have got the  
11 dialogue established. At some point in the near term  
12 we will probably use this approach that we have been  
13 discussing where the ball is back in their court, we  
14 will close these items about information and wait for  
15 the actionable request for specific equipment or  
16 capabilities.

17 BRIAN SHARON: Okay.

18 MALE PARTICIPANT: For information,  
19 recognize that there is a Rear Admiral Gregory that is  
20 working a similar issue.

21 MALE PARTICIPANT: Which particular  
22 aspect? Is it the collection, the treatment or the  
23 storage?

24 MALE PARTICIPANT: Collection and storage,  
25 I believe.

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1 MALE PARTICIPANT: That's correct.

2 MALE PARTICIPANT: Okay, well --

3 MALE PARTICIPANT: Of course we are not  
4 aware of that explicitly, but you know, this is one of  
5 many requests that have gone out through different  
6 venues and different people are working the same  
7 issues in parallel.

8 BRIAN SHARON: Okay, all right. But I  
9 mean, I think we are going to wait for the Japanese to  
10 tell us exactly what it is that they are going to need  
11 over there.

12 MALE PARTICIPANT: I guess I hear an issue  
13 here, where where if we have the private sector as  
14 well as the military sector trying to work this issue,  
15 I think those people will need to get together and  
16 understand what each are doing, so that perhaps  
17 instead of doing things in parallel, we may be able to  
18 do -- we may be able to come up and look at a specific  
19 strategic or go out and one can procure one thing,  
20 another can procure something else -- it's just a  
21 thought -- instead of trying to have two items done in  
22 parallel.

23 MALE PARTICIPANT: Well, I absolutely  
24 agree and I think this goes back to the process and  
25 protocol that we are trying to establish so that we

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1 have -- we accomplish a couple of things: that we have  
2 one list taht we one list that we are working to; and  
3 that for multiple-entry items like this, we in fact  
4 know who is doing what.

5 MALE PARTICIPANT: So to echo that, we  
6 need to be -- I agree, we need to be putting names, so  
7 why don't we make sure that Sal's name and number of  
8 something is put on here or the EOC with Sal's name,  
9 and why don't we find out what organization is the  
10 two-star Admiral dealing with. Is it Naval Reactors  
11 or -- and let's just start cutting through that now.

12 MALE PARTICIPANT: Can we have two points  
13 of contact then, for, you know, in terms of -- getting  
14 on the phone and trying to get this sorted out and  
15 resolved and then report back?

16 MALE PARTICIPANT: I think that's great.  
17 If we have two efforts, that means we have two points  
18 of contact.

19 MALE PARTICIPANT: All right, well, I'll  
20 give you Admiral Gregory's contact information.

21 (b)(6)

22 MALE PARTICIPANT: Is Al the contact for  
23 DOE?

24 MALE PARTICIPANT: Well, when I do my  
25 markup and provide the red lines and I help us do a

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1 later version than the one I currently have here, I'll  
2 provide a point of contact of someone that's actually  
3 doing the work. You know, I'll be the POC on the  
4 calls but I'll let you know who has actually got the  
5 action.

6 BRIAN SHARON: Okay.

7 GLENN SOUTHERN: Now, additionally -- this  
8 is Glenn Southern -- I'd recommend that there's a  
9 lead, who is going to -- that somebody is going to be  
10 the responsible party for making the contact. If you  
11 just put two contacts there it's not clear that that  
12 would happen.

13 BRIAN SHARON: Yes. Sal, could you take  
14 the lead for DOE to have your person make the contact?

15 SAL GOLUB: Certainly, I can do that.

16 MALE PARTICIPANT: I have a DSN number for  
17 Admiral Gregory, 225-4705. The problem is none of us  
18 at DOE have DSN.

19 RICK NIELSEN: By the way, related to  
20 this, there were questions that I saw -- this is Rick  
21 Nielsen -- about the suitability of materials, and  
22 these were coming from Admiral Gregory I believe, the  
23 suitability of materials for the contaminated water  
24 and how the decon, all that equipment, after it's been  
25 used, so that might be something that Naval Reactors

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1 could probably help her with but --

2 MALE PARTICIPANT: She's getting  
3 assistance on that matter from Naval Sea Systems  
4 Command, Captain Benavidez (phonetic). So I think  
5 that's where that resolution is going, the whole -- on  
6 decontamination.

7 BRIAN SHARON: Okay. Yes, we're also --  
8 we are going to take INPO off on this one. I think  
9 this is primarily between DOE and DOD. And if we are  
10 -- I think, I feel like we have got at least a go-  
11 forward approach on this.

12 So if we can move on to -- my next one  
13 here, on 32 it says this is DOE so --

14 MALE PARTICIPANT: Yes, 32 is related also  
15 to basically how we are going to treat the  
16 contaminated water, so again we have provided a fleet  
17 of technologies and we will wait for the Japanese to  
18 give us some feedback on what their interests are.

19 BRIAN SHARON: So you have already  
20 provided something to the Japanese?

21 MALE PARTICIPANT: Yes, we have provided  
22 them, I'll call it the first phase of information, we  
23 have briefed Secretary Chu's science council on some  
24 additional treatment options today that we will also  
25 be forwarding to the Japanese probably tomorrow, so we

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1 are doing it in phases.

2 BRIAN SHARON: All right, but I mean  
3 should I mark this now as closed?

4 MALE PARTICIPANT: No, no, I'd hold off on  
5 32 as being open still.

6 BRIAN SHARON: All right. Okay. Let's  
7 see. The next one was NRC. It says Japan asks for  
8 NRC expertise on temporary shielding options to  
9 determine whether the nuclear power plant buildings  
10 are strong enough to hold up under additional  
11 pressure.

12 MALE PARTICIPANT: Let me be so bold as to  
13 suggest with that NRC one, that it's NRC and DOE too.  
14 Sal, feel free to jump in if you don't agree. And  
15 why I say that is sometimes these tasks are so  
16 complicated, and also that this one quickly drives  
17 into how are you going to get the shielding in place.

18 So, now you are back into what robotics  
19 equipment do you need. I mean it's a holistic  
20 problem. So I mean, we are fine with NRC being the  
21 lead on it if you will, but I think there is going to  
22 be big play from the DOE side as well.

23 MALE PARTICIPANT: I don't disagree. I  
24 thought shielding was one of those three new projects  
25 that the ministers put in place as well, that I would

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1 think would capture some of these challenges.

2 BRIAN SHARON: Yes, I personally don't  
3 have an update on where we are with -- you know, their  
4 question about determining whether the power plant,  
5 whether the buildings are strong enough to hold up  
6 under, you know, the weight of this, for example you  
7 load them up with lead blocks or something.

8 MALE PARTICIPANT: Let us sort that one  
9 out back here with the Reactor Safety Team.

10 BRIAN SHARON: All right.

11 MALE PARTICIPANT: That would be starting  
12 with the Japan team because I know we have people  
13 specifically on that working group, and we have been  
14 doing some structural reviews of the buildings, not  
15 specifically for this, but let the Reactor Safety Team  
16 here in Japan take the initial leadership on that and  
17 decide how we want to proceed with DOE, and then, most  
18 likely, if it's more long term, perhaps moving back to  
19 headquarters. But let us start with it.

20 BRIAN SHARON: Okay. Last item here was  
21 request for the following 2100 units rad survey  
22 meters, 2500 units personal dosimetry and 5100 units  
23 iodine shielding masks to DOE.

24 MALE PARTICIPANT: (Inaudible).

25 (Multiple speakers)

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1 BRIAN SHARON: Yes, looks like the same as  
2 24.

3 MALE PARTICIPANT: (b)(5)

4 (b)(5)

5 MALE PARTICIPANT: This is the first time,  
6 so I apologize, first time I have been joining in, and  
7 I know that I have not done any sort of gathering of  
8 what do we have and all that.

9 I keep hearing, I keep hearing that some  
10 personal company has been offering to donate a large  
11 amount of dosimeters but they -- (b)(5)

12 (b)(5)

13  
14  
15 MALE PARTICIPANT: I'd like to bounce this  
16 one back to the embassy and figure out if they really  
17 need DOE to do something.

18 BRIAN SHARON: Okay. Alan, can you take  
19 that as a question?

20 ALAN BLAMEY: Yes, but DOE also has  
21 embassy people here so maybe --

22 BRIAN SHARON: Okay.

23 ALAN BLAMEY: it should go back to the DOE  
24 embassy people, because I thought earlier -- I had  
25 seen this before and I thought that -- I could be

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1 wrong but I thought the industry was trying to move  
2 some of -- some similar stuff, but that could be a  
3 mistake on my part.

4 MALE PARTICIPANT: Yes. I'd really  
5 appreciate the Japan team, both the NRC folks and  
6 Alan, the industry folks, to try and put a little  
7 pressure on my brethren there in Tokyo. I know they  
8 are all busy but it would really help to have one of  
9 their reps on this call.

10 MALE PARTICIPANT: Okay.

11 BRIAN SHARON: All right. So, Alan, could  
12 you then pass this on to your DOE folks over there at  
13 the embassy and ask them if they would please check  
14 with their Japanese counterparts?

15 ALAN BLAMEY: I'll pass this on to DOE  
16 here at the embassy.

17 BRIAN SHARON: Okay.

18 TOM VAVOSO: This is Vavoso, Naval  
19 Reactors. Just as a side note on this, I got a report  
20 -- it sound like there is a real need here that may  
21 not be being fulfilled.

22 (b)(5)

23  
24 (b)(5)

25 MALE PARTICIPANT: No no, so don't get us

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1 (b)(5)  
2  
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11

12 ALAN BLAMEY: So it sounds to me like this  
13 is a high priority and we really should move on this  
14 one now. Okay, let me take this one back up through  
15 the embassy with perhaps more urgency than some of the  
16 other ones, and I'll see if I can track the DOE people  
17 down here at the embassy as well.

18 BRIAN SHARON: Okay. All right. So Alan,  
19 you've got the lead on that, and if you can report  
20 back maybe at tomorrow's call.

21 ALAN BLAMEY: That sounds good. And also  
22 I'd like, as soon as you guys finish getting this  
23 typed up, I want to consolidate the NRC and INPO items  
24 that are on this list that are not complete, with the  
25 embassy's list.

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1 BRIAN SHARON: Okay.

2 ALAN BLAMEY: And when I talk with DOE  
3 here too I'll mention to them that we'd like them to  
4 consolidate the list as well with the activities that  
5 they have ongoing with the embassy list.

6 BRIAN SHARON: Okay. Let's see, that was  
7 all the items that I had on the material request list.

8 I'm not going to go through the action items because  
9 I think we all, as we went through these, we  
10 identified who has the lead, and hopefully we'll have  
11 those in the notes that will get out to you shortly.

12 With regard to -- are there any new  
13 actions that we need to discuss or to act on? Does  
14 anybody have any?

15 RICK NIELSEN: Brian, this is Rick  
16 Nielsen. We have one that we'll send to you all to  
17 update, and that's to -- more strontium-90 gamma --  
18 spectrometers is what they are really looking for.

19 And we have sent that information to  
20 Japan, actually to Al Hochevar there to present to  
21 them in Japan. It's an action that we received today.  
22 We completed the action today, and if there is a need  
23 for a record of (indiscernible, possibly "who did the  
24 action") and what we did, we will provide that.

25 That new action is already completed. I'd

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1 also, I'd just interject that it may be useful too,  
2 just -- for you all to establish a protocol on how we  
3 can update these, because we could inundate you with  
4 material that is changing and so forth and then it's  
5 just too unwieldy for you all to manage. So maybe if  
6 you instruct us all on a protocol on how you want to  
7 receive updates to this, we could make it easy on you.

8 BRIAN SHARON: When you say updates, you  
9 mean to which, the material list or the -- or what?

10 RICK NIELSEN: To the material list, just  
11 how often do you want it updated, and in what form  
12 would you prefer it to be updated?

13 BRIAN SHARON: Well, what I was going to  
14 propose is that right now, we're sending this out, as  
15 I said, four times a day. I'm not sure we need to  
16 send it out four times a day, because I would imagine  
17 we are only going to get updates once a day as a  
18 minimum from everybody.

19 What I would like to propose, so maybe if  
20 you could tell me, would it make sense if we shipped  
21 this out, let's say, at -- well right now we ship it  
22 out at 0700 in the morning.

23 I was going to suggest that if the -- if  
24 the conference calls are going to take place, say, at  
25 8 o'clock in the evening, it might be good if -- if we

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1 shipped it out maybe about 0700 or 0800 in the  
2 morning. That would give you several hours to update  
3 it and the like, and then send it back to us, and if  
4 we could get it updated with all the various updates,  
5 we could then fire it out again maybe at around 0600  
6 or something, and -- I'm sorry -- I'm sorry, 1200 --  
7 and get it out -- sorry, 1800, sorry, I'm not  
8 (indiscernible, possibly "Navy type") here.

9 We'll get it out around 6 o'clock in the  
10 evening, and that way you'll all have it in front of  
11 you for the 8 o'clock call, with, hopefully  
12 everybody's updates incorporated and then we'd all be  
13 discussing from the same document. Does that make  
14 sense?

15 MALE PARTICIPANT: That would work very  
16 well for INPO. We could submit our input to you by  
17 1300, so that would give you time to respond to our  
18 input and other input probably. So that would be a  
19 good protocol for us.

20 BRIAN SHARON: Okay, so let's plan, then,  
21 to -- we'll send out a draft at 0700 or 0800, right  
22 around there, to each of you. If you could have it  
23 updated and either fax it or email it back in by  
24 about, say, 1200, 1300. We will then update it in the  
25 afternoon and try to get it out, say, by 1700, 1800.

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1 And then you will all have it hopefully in time for  
2 the 8 o'clock call.

3 MALE PARTICIPANT: Works for INPO.

4 BRIAN SHARON: Okay, great.

5 MALE PARTICIPANT: For those updates that  
6 may have -- that may come from Japan, is that going to  
7 work for the people in Japan? Because that is going  
8 to be our night.

9 MALE PARTICIPANT: (Inaudible).

10 ALAN BLAMEY: I would suggest that --  
11 well, this is Alan at the embassy. I would suggest at  
12 this point in time, if we stay with the plan, that  
13 would be fine with me, and then we will work our  
14 updates in as we move forward, because I think as we  
15 start to get more into a rhythm, this may change a  
16 little bit.

17 BRIAN SHARON: Yes.

18 ALAN BLAMEY: But I'm not sure if there's  
19 any other military people on the line that would like  
20 to do something a little different. So I'll open it  
21 up to them.

22 MALE PARTICIPANT: From our perspective  
23 here at the United States Forces Japan, we have a 24-  
24 hour watch and we can cover that, but I wasn't sure,  
25 for those of you down at the embassy, what your

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1 staffing is like at night, and I asked the question  
2 just to make sure the process will work for you and it  
3 sounds like will.

4 ALAN BLAMEY: Yes, we have -- at least  
5 from the NRC's perspective, we have backed off a  
6 little bit on the night coverage, so I think with the  
7 way things are moving now we should be able to update  
8 and send our updates in as we have them.

9 So I'm not sure that is going to be a big  
10 update on us or the team right now.

11 BRIAN SHARON: And I don't think it's  
12 going to be a big -- I don't think it would be a big  
13 impact even if we did not get the updates from the  
14 embassy incorporated. They could still provide them  
15 over the phone during the conference call.

16 So okay, does anybody have any other items  
17 they want to discuss?

18 GLENN SOUTHERN: Yes, again, this is Glenn  
19 Southern. I've been able to translate DSN in the past  
20 to commercial. So, based on an email I got from Mr.  
21 Vavoso, I have a commercial number that should work to  
22 reach Rear Admiral Gregory.

23 MALE PARTICIPANT: All right go ahead.

24 GLENN SOUTHERN: (b)(6)

25 MALE PARTICIPANT: I got it.

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1 MALE PARTICIPANT: Glenn, that's correct.

2 I looked that up too during my -- during the last few  
3 minutes. That's the correct commercial number for her.

4 GLENN SOUTHERN: Okay.

5 SAL GOLUB: This is Sal. I've got one  
6 point I'd like to bring up, and that is, in  
7 yesterday's discussion and in the notes that followed  
8 the meeting there was a desire to consolidate the two  
9 lists, the embassy list and the list we have gotten  
10 generated her. And I strongly endorse that approach  
11 and I don't know where it stands.

12 ALAN BLAMEY: Currently we are working  
13 that in the embassy and that is the next task that I  
14 am moving to after the call, to start that  
15 consolidation process. And I do plan to consolidate  
16 the -- I'll be working the INPO items and the NRC  
17 items in, and I'll be looking to some of the staff  
18 here at the embassy for support on the DOD items as  
19 well as the DOE items, to incorporate that, because  
20 I'm sure those people have a lot more detail on the  
21 status than I would.

22 MALE PARTICIPANT: All right. I just  
23 think it's important to move to one common master list  
24 that everybody is using.

25 ALAN BLAMEY: Yes.

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1           JEFF: Alan, Jeff (inaudible.) Are you  
2 going to be taking the lead on that, or should the  
3 Liaison Team back here at headquarter start working on  
4 an updated draft of this, this action items for  
5 material requests list?

6           ALAN BLAMEY: At this point in time, the  
7 headquarters team should continue on.

8           JEFF: Okay.

9           ALAN BLAMEY: I want to make sure that we  
10 are clean and ready to roll when we transfer that  
11 ownership over. And secondly, we haven't -- it's  
12 really up to the Ambassador on exactly how he wants to  
13 do it, so we are still in the process of trying to  
14 hone in on the specific framework that we are going to  
15 use.

16           So this is working now. Let's stay the  
17 course on this. And as we transition over, we will  
18 make sure that the new process will work and then we  
19 will do this transfer to the new process.

20           JEFF: Okay, so the headquarters Liaison  
21 Team will take the lead on updating this list and  
22 getting the minutes out. We'll try to get everybody  
23 minutes of this meeting and a revised list by 8  
24 o'clock tomorrow morning, Eastern time.

25           ALAN BLAMEY: Yes, that will work.

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1 JEFF: Okay good. And then again, like  
2 Brian said, we expect your comments back by 1800 hours  
3 so we can publish a final im time for the 2000  
4 conference call.

5 ALAN BLAMEY: Yes.

6 JEFF: Perfect, thank you.

7 BRIAN SHARON: Okay. In terms of the next  
8 call, is -- is tomorrow night appropriate, or do we  
9 wait and do it like, so, over the weekend or  
10 something? Any opinions?

11 ALAN BLAMEY: This is Alan. I guess my  
12 initial thought is we should probably at least have  
13 another get-together tomorrow. I see there is at  
14 least one high priority item which is the dosimetry  
15 that I think we want to try and keep forward momentum  
16 on.

17 So I would probably recommend tomorrow we  
18 get together again. Maybe it's an abbreviated call.  
19 But that would just be my thought.

20 MALE PARTICIPANT: INPO would support  
21 that. It looks like we are making really good  
22 progress on this list, and we'll get to a stable state  
23 soon, but it seems like Friday is a good thing to call  
24 on.

25 BRIAN SHARON: Okay. All right, so we'll

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1 schedule to do it again tomorrow at 8 o'clock. And  
2 hopefully we'll have an update on this table and as  
3 you said, maybe we can do an abbreviated walk-through.

4 Okay. So does anybody have anything else  
5 then?

6 LIEUTENANT COMMANDER MERCER: This is  
7 Lieutenant Commander Mercer. I just wanted to get  
8 added to the email distribution list. My address is

9 (b)(6)

10 BRIAN SHARON: Got it.

11 LIEUTENANT COMMANDER MERCER: Thank you.

12 BRIAN SHARON: Okay, well I want to thank  
13 everybody for participating. We'll get the minutes  
14 out hopefully fairly quick, and we'll get the list out  
15 again in the morning, and if you could provide your  
16 updates, and then we'll go from there.

17 MALE PARTICIPANT: Just let us know what  
18 email and stuff to send the updates to.

19 BRIAN SHARON: We'll put that in the  
20 notes, in the minutes, okay?

21 MALE PARTICIPANT: Terrific.

22 BRIAN SHARON: Okay, great. Thanks a lot.  
23 Good night.

24 MALE PARTICIPANT: Thanks.

25  
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(CONFERENCE CALL INITIATED)

HIRONORI PETERSON: Hironori Peterson,  
Region III duty officer.

BRIAN HARRIS: Brian Harris, ODC.

LAURA PEARSON: Laura Pearson (inaudible)  
duty officer.

MICHAEL MARSHALL: Michael Marshall,  
(inaudible).

WILLIAM ORDERS: Bill Orders, Commissioner  
Magwood's office.

MARVIN SYKES: Marvin Sykes, Region II  
duty officer.

MALE PARTICIPANT: (Inaudible) Chairman's  
office.

MR. BATES: (Inaudible) Bates, SSECY.

MALE PARTICIPANT: (Inaudible), SSECY.

PATRICK CASTLEMAN: Pat Castleman,  
Commissioner Svinicki's office.

MICHAEL FRANOVICH: Mike Franovich,  
Commissioner Ostendorff's office.

LINDA HOWELL: Linda Howell, Region IV.

ANGELA MCINTOSH: Angela McIntosh, FSME.

CATHERINE HANEY: Cathy Haney, NMSF.

WILLIAM HARROW: Bill Harrow, (phonetic)  
headquarters operations officer.

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1 BRUCE: Okay, good morning everyone. This  
2 is Bruce (inaudible). I have got the ET director role  
3 during the day shift today. Just to give you an  
4 update, the plant and the radiological status are  
5 about the same. Injections to units 1 to 3 continue,  
6 along with additions to the spent fuel pool.

7 What I'd like to share with you are some  
8 of the major activities that we feel we have on our  
9 plates that we are bringing to your attention, the  
10 things we are working on.

11 First, we are finalizing the updated  
12 assessment and recommendations pertaining to severe  
13 accident management strategies. This is a joint  
14 effort that we have had with GE Hitachi, EPRI, Naval  
15 Reactors, DOE, and the NRC (indiscernible, possibly  
16 "sites" or "science") team.

17 That's a pretty important effort for us.  
18 Next, we are starting a companion document for spent  
19 fuel pool strategies. So again, and that would also  
20 take a look at capabilities and structural elements,  
21 things like that, so that's starting with the Reactor  
22 Safety Team.

23 We are continuing efforts to assess fuel  
24 decay heat from two perspectives. One is, what is the  
25 possible scenario if cooling is lost now, time period,

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1 things like that.

2 And then the second is at what point would  
3 be the heat be such that a loss of cooling would not  
4 be expected to result in an energetic release, and  
5 that one's important so that we know when folks --  
6 what the zone would be of influence.

7 (b)(5)

8 (b)(5)

9  
10  
11 And this gets back -- this is related back  
12 to that first scenario in decay heat. The estimate  
13 that we have used, though, is making use of metal core  
14 with more current decay heat levels and also a release  
15 of inventory from the unit 4 spent fuel pool. That's  
16 the data source.

17 We are also working on an issue related to  
18 the impact of the salt water on the reactor vessel.  
19 That's the concern for stress corrosion cracking in  
20 the lower head.

21 And those are the major things we are  
22 working on today. Yesterday there was a request for  
23 information related to the DOE flyover data, and as of  
24 yesterday, there really were no major changes in the  
25 radiation levels seen through that system.

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1 Levels are consistently below actionable  
2 levels and decreasing over time, as you might expect.  
3 And that's about it for me. I can take any questions  
4 you have.

5 WILLIAM ORDERS: Bill Orders here.

6 BRUCE: Thanks Bill, somebody has to be  
7 first.

8 WILLIAM ORDERS: I know, it's always  
9 somebody. Back on the unit 4 spent fuel pool. This  
10 thing has been on again and off again, and now it's on  
11 again. So are we thinking we are going to lose  
12 coverage, or what's the status today?

13 BRUCE: (b)(5)

14 (b)(5)

15  
16 WILLIAM ORDERS:

(b)(5)

17 (b)(5)

18  
19 BRUCE: Yes.

20 WILLIAM ORDERS:

(b)(5)

21 (b)(5)

22 BRUCE: Yes.

(b)(5)

23 (b)(5)

24  
25 WILLIAM ORDERS: Well, I understand that,

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1 but it seems like we are putting water in that pool  
2 all the time. So are we thinking we are going to lose  
3 that pump or truck or whatever we are using?

4 BRUCE: This is, you know -- no, we are  
5 not anticipating that. We are anticipating also that  
6 the, you know, the pumping system will arrive at some  
7 point and be available to -- you know, have a -- it  
8 might even be the primary source at that point.

9 So, no we are not expecting it to happen,

10 but (b)(5)

11 (b)(5)

12 WILLIAM ORDERS: Okay. Back on the CMG  
13 (phonetic) effort. There was one --

14 BRUCE: Bill, if you are talking we are  
15 not picking you up.

16 WILLIAM ORDERS: Is this better?

17 BRUCE: Yes sir.

18 WILLIAM ORDERS: Okay, sorry about that.  
19 Back on the CMG effort, there was talk at one time  
20 about flooding unit 1, both the containment and the  
21 vessel. Are we still going to do that or where are we  
22 on that?

23 BRUCE: That's one of the strategies  
24 that's within the document.

25 WILLIAM ORDERS: Okay. I'll stop now and

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1 give somebody else a chance.

2 BRUCE: Okay.

3 MICHAEL FRANOVICH: Bruce, this is Mike  
4 Franovich. I am going to follow up on where Bill left  
5 off on the CMG. First, let me make a request for the  
6 version that we sent out is final, to the in-country  
7 team and to share with the Japanese, if we could get a  
8 copy of that. We did get the previous version as of  
9 Sunday last Sunday, the previous Sunday. So that  
10 would be helpful for us.

11 BRUCE: Okay, we'll do that.

12 MICHAEL FRANOVICH: Okay. And then can I  
13 -- on unit 1 for a moment here, we see that the  
14 feedwater nozzle temperature went up quite a bit and  
15 now it seems to be ramping down.

16 Does the RST have a feel for what's going  
17 on with the reactor? It doesn't look like the  
18 injection rates have changed at all, but do they have  
19 any feel for what they think may be going on?

20 ED HACKETT: Mike, this is Ed Hackett.  
21 I'm the shift director for the day shift, and I think  
22 -- what I heard, and this is obviously, like a lot of  
23 this, incomplete information. There was some  
24 discussion on the ship turnover that the flow rate had  
25 actually increased slightly and that would be the

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1 reason for the nozzle temperature decreasing.

2 But we don't have a whole lot of certainly  
3 on that.

4 MICHAEL FRANOVICH: Okay. And then the  
5 flow rates seem really low. Are they just restricted  
6 by how much they can physically put in, or is it just  
7 they are throttling flow for some reason on each one  
8 of these units?

9 ED HACKETT: I think it's the restriction.  
10 You know, the Japanese have of course wanted to keep  
11 the flow throttled, I think that's been widely  
12 discussed, for the purposes of not adding to  
13 contamination on the site.

14 But I think it's also restricted relative  
15 to the salt buildup and other aspects of what's going  
16 on with the injection, from what I've heard before.

17 BRUCE: Mike, this is Bruce. I had also  
18 heard that they were throttling at -- out of the  
19 concern of having too much water in there, and the  
20 need to vent at some point. There seems to be a real  
21 concern about venting.

22 MICHAEL FRANOVICH: Hmm, okay. That's  
23 interesting. And then, just to close a chapter on the  
24 CMG piece, do you have -- have we established what we  
25 would call maybe success criteria, or just ability

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1 criteria for each one of these units in terms of where  
2 we would say, aha, we have reached that point, now  
3 where we are sort of in the comfort zone for -- the  
4 core is going to stay cool, or we have the containment  
5 flooded and that's going to take care of matters, the  
6 doses may be -- effluent rate, you know, may be cut  
7 down, or do we have that established on a unit by unit  
8 basis?

9 MALE PARTICIPANT: What I'd say, Mike, is  
10 not on a unit by unit basis, but as -- conceptually, I  
11 think you captured it, the idea that -- obviously in  
12 order for it to show up in the revised document, is a  
13 priority in this order to maintain core cooling and  
14 injection to keep the wet well to release the minimum  
15 debris level (inaudible) most importantly in this  
16 sequence, because if (inaudible) happens today is to  
17 flood up and this is talking both core and the  
18 containment, and Bruce is indicating the Japanese, for  
19 their purposes I think, relative to contamination,  
20 have been resisting that so far, is my understanding.

21 And then like you said, then leading to  
22 you know, a longer term recovery sort of status and  
23 sort of this is all, at this point, obviously work in  
24 progress.

25 MICHAEL FRANOVICH: Okay, great. And then

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1 just to go back to the unit 4 spent fuel assumption, I  
2 think I understand where your -- what the assumption  
3 is. Are you also using unit 3 pool as part of that  
4 input? Because that one appears to have the crane --  
5 refueling crane actually dropped on the pool itself,  
6 and on the fuel.

7 BRUCE: I can't -- I don't know, Mike.

8 The  
9 source term was identified as the unit 4 spent fuel  
10 pool.

11 MICHAEL FRANOVICH: Okay, because I  
12 (inaudible) it would be the other way around, 3 would  
13 be more of the concern because of the amount of make-  
14 up they have to make to it and the physical damage on  
15 top of the fuel, with the crane, versus 4, which, even  
16 though the wall's blown out, it looks pretty stable.  
17 You actually can see the pool and the refueling crane  
18 is intact. It may be leaking but the make-up rate  
19 doesn't seem to be as frequent or as much as it is on  
20 3.

21 And my information is a little dated, I  
22 mean, of course you are going to have something more  
23 current. Four is the one we are assuming, not 3, is  
24 that correct?

25 BRUCE: Say again, Mike.

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1 MIKE WEBER: Unit 4 is the one we are  
2 assuming for a source term for these additional runs  
3 to support the Ambassador's interest?

4 MALE PARTICIPANT: Yes, unit 4 is the one  
5 we are using.

6 MICHAEL FRANOVICH: Okay. I'll stop  
7 there.

8

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1 PATRICK CASTLEMAN: This is Pat Castleman.  
2 Following up a little bit on the source term, I got  
3 distracted there, so pardon me if I am re-piling some  
4 ground that Mike (inaudible). But as I understood it,  
5 in addition to the unit 4 spent fuel pool, we are also  
6 assuming one of the reactors has a complete release,  
7 is that right?

8 MALE PARTICIPANT: Yes, unit 1.

9 PATRICK CASTLEMAN: Okay and that is a  
10 complete release. Okay.

11 BRUCE: Pat, but that -- it's a complete  
12 release, presuming today's conditions, right?

13 PATRICK CASTLEMAN: Right.

14 BRUCE: With the decay gone, and things  
15 like that.

16 PATRICK CASTLEMAN: Okay. Now we are  
17 doing that in response to the Ambassador's request.  
18 What are the NRC's needs or equities regarding this?  
19 And what I am getting at is we have a press release  
20 out there that has been out now for over two weeks,  
21 saying 50-mile evacuation.

22 Are we going back to reassess this? Are  
23 we going to use any data to take another look at that  
24 based on today's conditions?

25 BRUCE: Well, you know, I think that one

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1 of the things that we keep in the back of our minds is  
2 whether or not we have a change to our protective  
3 action recommendations.

4 So that's out there all the time. But for  
5 this one, this was just to bring people back into  
6 Tokyo, and I think even with the worst case scenario  
7 that we had two weeks ago, we didn't reach those  
8 levels in Tokyo.

9 PATRICK CASTLEMAN: Right. Right,  
10 exactly. And that's what kind of bemuses me about  
11 this, is that you know, (b)(5)

12 (b)(5)

13  
14 (b)(5)

Or did --

15 BRUCE: We might be able to say that, but  
16 he has made a request, we are going to honor that  
17 request, and it's he wants something by the 15th.

18 PATRICK CASTLEMAN: Okay. Okay. A little  
19 bit more on the AMF data. My understanding is that  
20 they are not flying -- they are not flying outside of  
21 like two and a half miles of the site. They are not  
22 closing within two and a half miles. How far out are  
23 they going?

24 MALE PARTICIPANT: Have you seen the map?

25 CINDY JONES: You know, this is Cindy

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1 Jones. We have seen the maps and they go quite a way  
2 south, I want to say between 50 and 80 miles, but I  
3 can get you the exact (inaudible) but it's quite a  
4 wide path.

5 PATRICK CASTLEMAN: Yes.

6 CINDY JONES: And they go quite a bit  
7 inland as well.

8 PATRICK CASTLEMAN: Yes, okay. Okay, yes.  
9 Just was wondering how far out they are going,  
10 because you know, I read yet some more reports about,  
11 you know, incredibly high levels out to 25 miles, and  
12 you know it sounds like there's -- to me it sounds  
13 like there's possibly a couple of little hot spots of  
14 maybe something that got carried in an upper level  
15 wind and then deposited at one spot. Do we have any  
16 idea on that?

17 BRUCE: No, we know of the one hot spot  
18 that gets a lot of publicity. It was in the northwest  
19 of the site, and we have known about that for a couple  
20 of weeks.

21 PATRICK CASTLEMAN: Right.

22 BRUCE: It's just making the -- it's  
23 making more news now, for whatever reason.

24 PATRICK CASTLEMAN: Oh, so this isn't --  
25 so what they are trumpeting in the press isn't

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1 something -- isn't a new place. It's that same spot?

2 BRUCE: It's the same spot, correct.

3 CINDY JONES: Right, and any reference to  
4 plutonium that you have heard, also is -- been stated  
5 that that is about the level of plutonium that has  
6 been in those soil samples before the event.

7 PATRICK CASTLEMAN: Okay. That's good to  
8 know.

9 BRUCE: Would it be helpful if we sent you  
10 a copy of the maps, the plot that the --

11 PATRICK CASTLEMAN: It really would.

12 BRUCE: Okay.

13 PATRICK CASTLEMAN: It would be good to  
14 have some, you know, hard data on off-site conditions.

15 BRUCE: Good, we'll send you what we have,  
16 to the Commission assistants. We'll send out what we  
17 have from the AMF file.

18 PATRICK CASTLEMAN: Yes, that would be  
19 great.

20 BRUCE: Okay.

21 PATRICK CASTLEMAN: That would be great.  
22 Thank you.

23 BRUCE: Sure.

24 PATRICK CASTLEMAN: And then I'm -- I'm  
25 going to go back to the question I always ask, and

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1 that is do we have any more information on radiation  
2 health effects, either occupationally or to the  
3 general public?

4 BRUCE: We don't, no.

5 PATRICK CASTLEMAN: Okay, because that's  
6 one thing I'm, you know, I read about the couple of  
7 contaminated workers and so forth. But there's, you  
8 know, again, a lot of hype out there and a lot of  
9 misinformation, but you know, I guess that in Japan  
10 they are quoting some workers as saying, oh, we are  
11 here, we are assuming we are all going to die from  
12 radiation.

13 CINDY JONES: Yes, I would just say that  
14 that is a bit of sensational reporting. It is my  
15 understanding that two workers that were admitted to  
16 the hospital for evaluation have since been released.

17 So I, I suspect there's just a lot of  
18 concern and speculation.

19 PATRICK CASTLEMAN: I think so too. I  
20 think so too. Okay, well that's all I had. Thank  
21 you.

22 BRUCE: You bet. Other thoughts,  
23 questions?

24 MICHAEL FRANOVICH: This is Mike Franovich  
25 again. One last question on unit 1. We had heard

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1 earlier in the week that, I think it was either -- I  
2 think by today that 3/31, we were going to have  
3 capability to do -- the Japanese would have capability  
4 to do inerting of the unit 1 containment. Has that  
5 occurred?

6 BRUCE: Yes Mike, I had heard the same.  
7 Two days ago, when I was on shift, I had heard the  
8 information at the time was that this Thursday, today,  
9 they were going to be starting purging, I think with  
10 unit 1.

11 My understanding as of the latest this  
12 morning, it's been delayed probably several days and I  
13 gather it's because of the uncertainty in how to  
14 establish the proper purge path for the nitrogen.

15 So it's been delayed. It's not going to  
16 happen today.

17 MICHAEL FRANOVICH: Okay. I imagine the  
18 met conditions would also have a factor on that,  
19 because you are blowing out the containment and  
20 looking at the doses in containment from the air  
21 monitors looks pretty severe.

22 BRUCE: Absolutely.

23 MICHAEL FRANOVICH: All right, great. I  
24 don't have any other questions. Oh, I have one more.  
25 And this is an old issue. Is there any more update

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1 on the fresh water barges?

2 BRUCE: Yes, one barge is right off shore.

3 MICHAEL FRANOVICH: Okay. Okay, so they  
4 are still -- they are still not really there and in  
5 use?

6 BRUCE: That's correct. We are trying to  
7 figure out or get information related to the whole  
8 pumping system.

9 MICHAEL FRANOVICH: Right.

10 BRUCE: But recognize that that pumping  
11 system was something that was thought about, you know,  
12 two weeks ago, high volume, you know, high head  
13 system, and as we look at our spent fuel strategies,  
14 we will consider that system as part of it.

15 MICHAEL FRANOVICH: Right.

16 BRUCE: But it's not there yet.

17 MICHAEL FRANOVICH: Okay. Okay. Thanks.

18 BRUCE: Yes.

19 WILLIAM ORDERS: Hey Bruce, this is Bill.  
20 The water that was in the turbine building they were  
21 pumping into the condenser, I understand now that they  
22 have stopped that. Is there an issue there?

23 BRUCE: Not aware of one, Bill.

24 WILLIAM ORDERS: Okay, I mean, they pumped  
25 -- I understand the condenser is almost full, they

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1 just ran out of places to put it. Are we worried  
2 about overflow at this point?

3 BRUCE: I think, in general we would say  
4 the water has got to go somewhere. We keep putting it  
5 in. It's coming out, and, you know it's a matter of --  
6 they won't be able to contain all of it. That's  
7 (inaudible.)

8 WILLIAM ORDERS: I mean, really, I mean  
9 that's frustrating all of this. We saw on the TV this  
10 morning that AREVA is preparing to send clean-up type  
11 equipment, you know, radwaste treatment type  
12 equipment. So that's, you know, portable type stuff  
13 that might, you know, serve as an interim, interim way  
14 to deal with some of the water and clean it up before  
15 they discharge it. But absent that, I'm not aware of  
16 something else that they could be doing.

17 WILLIAM ORDERS: Okay. Any more talk  
18 about the zeolite?

19 BRUCE: Yes, that's -- they have, I guess,  
20 I heard a technical term for it called goop, and the  
21 Reactor Safety Team is looking at that because of  
22 concerns that -- of the unintended consequences of  
23 using it.

24 So I don't have an answer on that but it's  
25 something that's on the plate.

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1 WILLIAM ORDERS: All right, thank you.

2 BRUCE: You got it. Okay. Hearing no  
3 further comments we will -- I hope the time frame of  
4 the call worked. I hope the types of information we  
5 are trying to share worked for you. We are trying to  
6 be responsive. So we will talk to you tomorrow, same  
7 time, same station.

8 MALE PARTICIPANT: Hey Bruce, let me ask  
9 one question. If -- and you don't have to answer this  
10 now, maybe it's to take under advisement, you know,  
11 with the teams.

12 But if, during the course of a day, a  
13 Commissioner has a question that he wants answered, is  
14 there a focal point to get that question to, so we  
15 won't bother everybody? And again, you don't have to  
16 answer that now, but you know, maybe we can come up  
17 with a point of contact that will help us in the  
18 future.

19 BRUCE: I think the best (inaudible) for  
20 that is through the safety officer, the status officer  
21 rather.

22 MALE PARTICIPANT: Okay, is -- the status  
23 officer, is that, what is it, EO7 or whatever that --  
24 is there a (inaudible) the website?

25 BRUCE: ET07.hoc@nrc.gov.

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1 MALE PARTICIPANT: That sounded like Jane.  
2 (Phonetic). Can you repeat it one more time please?  
3 BRUCE: You got it. ET07.hoc@nrc.gov.  
4 MALE PARTICIPANT: Okay.  
5 BRUCE: It should come up on your internal  
6 email.  
7 MALE PARTICIPANT: It does, I just didn't  
8 know if that was the proper channel.  
9 BRUCE: Yes. And that way whoever is on  
10 watch, a status officer, can make sure that the  
11 question goes to the right folks who have the answer.  
12 MALE PARTICIPANT: All right. Thank you  
13 much.  
14 BRUCE: Thanks. And then we will share  
15 the answer with all.  
16 MALE PARTICIPANT: Very well.  
17 BRUCE: All right. (Inaudible) tomorrow.  
18 MALE PARTICIPANT: Hang on a second.  
19 BRUCE: Yes.  
20 MALE PARTICIPANT: One thing we ought to  
21 start thinking about too, is whether or not we want to  
22 continue these calls over the weekend. You know, I  
23 don't know, I don't have an opinion one way or  
24 another, but you know, the 8:30 worked just fine last  
25 weekend, but we could continue 10 o'clock, but that's

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1 something for everybody to kind of think about and we  
2 can chat about it tomorrow.

3 MALE PARTICIPANT: Well, let's use the  
4 same protocol we did the last time. Let's talk about  
5 it and get the answer back through SECCY to the ET.

6 MALE PARTICIPANT: Yes, let's do that.  
7 Okay.

8 MALE PARTICIPANT: All right.

9 MALE PARTICIPANT: I like that approach.  
10 We are ready to support it. Just let us know.

11 MALE PARTICIPANT: Very well.

12 MALE PARTICIPANT: All right, good.  
13 Thanks.

14 MALE PARTICIPANT: Okay. Have a great  
15 one.  
16

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(CONFERENCE CALL INITIATED) MALE

PARTICIPANT: Hello.

MALE PARTICIPANT: Are you guys there?

MALE PARTICIPANT: Yes, this is assorted folks here in Japan. We just wanted to run something by you here. We got an information request from State Department, and it's the first of a kind that we are aware of to come here, and we are wondering if you normally field these somewhere in the (indiscernible, possibly "ops center") and therefore this thing should be shunted over to you. Do you want to run through what you heard and --

MALE PARTICIPANT: Yes, so the call came from Washington D.C., the State Department ops center, and they wanted us to comment on -- (b)(5)

(b)(5)

MALE PARTICIPANT: But it was, I think it was a request (b)(5)

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1 (b)(5) you said, right?

2 MALE PARTICIPANT: Yes, the information  
3 was for (b)(5)

4 MALE PARTICIPANT: Does this sound like  
5 something you heard of before, to provide (b)(5)  
6 (b)(5)

7 MALE PARTICIPANT: No. That's not come up  
8 before. We've had the overnight watch for the last  
9 four days and that has not come up in any of that  
10 time.

11 MALE PARTICIPANT: Well, we can, we can  
12 field it here if you think that it's the right thing  
13 to do and take our best shot at it, or we can give you  
14 their number and you can call them back if you'd  
15 rather handle it there.

16 JIM WIGGINS: Yes, who are we speaking to  
17 again?

18 MICHAEL SCOTT: I'm sorry, this is Mike  
19 Scott.

20 JIM WIGGINS: Oh, hi Mike. Jim Wiggins.

21 MICHAEL SCOTT: Hi Jim.

22 MALE PARTICIPANT: You guys need to stay  
23 focused. I presume you'd like us to take it, right?

24 MICHAEL SCOTT: Well, what I really wanted  
25 to do was, if these -- it kind of surprised me that

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1 this is the -- I've been over here a week, and you  
2 know, a week and a couple of days, and this is the  
3 first such request I've heard of.

4 So I -- if it's something that normally is  
5 fielded by you, then we wanted to you know, not  
6 reinvent the wheel. But it sounds like you are saying  
7 this is a new kind of thing.

8 MALE PARTICIPANT: Sounds like it's a  
9 first of a kind (inaudible), unless the guys at the  
10 State Department on your staff have been doing it, you  
11 know, we haven't been doing it here.

12 Some of what you brought up, though, it's  
13 sort of news. You know, they want to -- you know,  
14 what comment would we have on Japan deciding to scrap  
15 the plants.

16 MALE PARTICIPANT: We'd have no comment on  
17 that.

18 MALE PARTICIPANT: We're unaware of any of  
19 the exact plans, as to my knowledge right?

20 MALE PARTICIPANT: What was that?

21 MALE PARTICIPANT: We're unaware of any  
22 precise plans on their part.

23 MALE PARTICIPANT: No, I mean, and that's  
24 not our -- not our thing anyhow.

25 MALE PARTICIPANT: Well, also, the edge of

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1 the question is the, you know, the government and the  
2 utility is still involved actively in mitigating the  
3 event. It's not over yet. The idea of what to do  
4 next is certainly a near-term kind of question that  
5 ought to be addressed.

6 And it's their call, basically. You know,  
7 how do you tell -- (b)(5)

8 (b)(5)

9  
10 MALE PARTICIPANT:

(b)(5)

11 (b)(5)

I don't think there's  
12 any doubt in my mind. But we wouldn't have a comment  
13 on that.

14 MALE PARTICIPANT: No.

15 TODD JACKSON: But Jim, this is Todd  
16 Jackson here too. The third point was related to some  
17 report of an IAEA measurement that was outside of the  
18 evacuation zone, and I would point them back to the  
19 PMG, because we got our information -- when we asked  
20 about that, they were aware of it.

21 MALE PARTICIPANT: You're right. That's  
22 the way -- that's exactly how it should be handled.

23 MALE PARTICIPANT: Okay. You give us a  
24 contact, give us a number -- you got the number?

25 MALE PARTICIPANT: Yes, the number is 202-

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1 647-1512.

2 MALE PARTICIPANT: Who's the POC?

3 MALE PARTICIPANT: I'm sorry?

4 MALE PARTICIPANT: Do you have a name?

5 MALE PARTICIPANT: And the name is Claire  
6 Smolik, and she said that that line, though, is to  
7 State Department ops, and if she is not available,  
8 someone else could take the call.

9 MALE PARTICIPANT: Okay, but the whole  
10 point -- the whole issue is (b)(5)

11 (b)(5)

12 MALE PARTICIPANT: Okay. We'll take care  
13 of it.

14 MALE PARTICIPANT: Got it.

15 MALE PARTICIPANT: All right.

16 MALE PARTICIPANT: All right, we  
17 appreciate your help.

18 MALE PARTICIPANT: Yes, thank you.

19 MALE PARTICIPANT: Well, it's nice to hear  
20 from you guys. We hadn't heard from you all night.

21 MALE PARTICIPANT: Oh well, we'll try to  
22 call more often.

23 MALE PARTICIPANT: Yes, Chuck was calling,  
24 but didn't call tonight.

25 MALE PARTICIPANT: Okay. Thank you.

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1  
2  
3  
4

MALE PARTICIPANT: Thanks guys.

MALE PARTICIPANT: We'll see you guys.

MALE PARTICIPANT: All right.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Bill, are you still  
3 there?

4 (No response)

5 MALE PARTICIPANT: All right. Let's --  
6 I'm interested in what you folks are working on today.  
7 And I don't have any specific items, and yesterday we  
8 had some other meetings that generated some questions  
9 and some interest.

10 But I'm interested in what you folks do  
11 today. So let's kick off from (inaudible) with Mike  
12 (inaudible) from the midnight watch, one of the main  
13 items for today is to hopefully issue, and maybe even  
14 on this shift, the updated (inaudible) assessment  
15 document, which, my understanding, going back from the  
16 previous shifts I did and even before that, officially  
17 had not been updated since March 26th.

18 But I heard, as of Mike's shift, they had  
19 received returns from all parties on the revision of  
20 the document with the exception of Naval Reactors. But  
21 we are expecting a return today or shortly. It's not  
22 clear to me yet at what level the return will come. I  
23 don't know if it's the Admiral -- I got that  
24 impression and they thought they'd have it by this  
25 morning.

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: So I know they're off  
3 working on it. We also -- but beyond that, you know,  
4 we're going to have to figure out how to get that to  
5 the Chairman, because he is going to --

6 MALE PARTICIPANT: That was going to be my  
7 question back to you.

8 MALE PARTICIPANT: Okay. (Inaudible) an  
9 interest in having a role in that.

10 MALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: So maybe the sequence  
12 should be, what I was thinking would happen, we have  
13 the 11 o'clock call with the (inaudible). My hope  
14 would be by the 11 o'clock call, that as a result of  
15 the call, everyone is good with the revision and they  
16 can (inaudible).

17 MALE PARTICIPANT: Okay.

18 MALE PARTICIPANT: And then we present it  
19 to you all.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: And then take it from  
22 there, the Chairman wants to review it, (inaudible).

23 MALE PARTICIPANT: Okay. And the Chairman  
24 is going down to The Hill.

25 MALE PARTICIPANT: And before it gets

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1 issued to the site team for instance, I know the site  
2 team wants --

3 MALE PARTICIPANT: Well now the site team  
4 has seen a draft of it, right? Which I understand  
5 they had shared with, I want to say they shared it  
6 with Ambassador Roos.

7 MALE PARTICIPANT: That I don't know, but  
8 (inaudible).

9 MALE PARTICIPANT: Yes, okay.

10 MALE PARTICIPANT: But as to whatever  
11 their purpose is, I know they were wanting it, and I  
12 thought they could have it.

13 MALE PARTICIPANT: I'm sorry, is this the  
14 status of the plant?

15 MALE PARTICIPANT: This is the status --  
16 there was an assessment document produced by the  
17 Reactor Safety Team in conjunction with the  
18 international consortium, GE Hitachi --

19 (Multiple speakers)

20 MALE PARTICIPANT: Okay, well what I  
21 wanted to chime in was, (b)(5)

22 (b)(5)

23  
24 MALE PARTICIPANT: This is the strategies  
25 for going forward with respect to the reactors?

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1 MALE PARTICIPANT: Right.

2 MALE PARTICIPANT: Oh, oh, oh, oh, oh,  
3 okay.

4 (Multiple speakers)

5 MALE PARTICIPANT: (b)(5)

6 (b)(5)

14 (b)(5)

19 So that was the assessment. The second  
20 item, I guess, there's an initiative just within the  
21 last shift or two, to do the same sort of thing with  
22 the spent fuel pool assessment. So my understanding  
23 is there's been a series of emails going back and  
24 forth between RST (inaudible) and the international  
25 consortium on what's all going on with the spent fuel

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1 pools, but it's not been pulled together into any kind  
2 of assessment document.

3 So we are working on that, on that shift,  
4 and that will be a focus also (inaudible) to make that  
5 -- I was bad yesterday in doing that. Others sill  
6 know, you know, (indiscernible, possibly "to capture  
7 what we have been working in".

8 (Multiple speakers)

9 MALE PARTICIPANT: You know, a more  
10 integrated assessment. Third item I had was this  
11 question on, a lesser priority, but the Japanese are  
12 planning on spraying, it's called goop, I guess,  
13 around the site, some kind of resin or (inaudible)  
14 resin, with the idea of reducing contamination.

15 I guess with the consortium, my  
16 understanding is some questions came up relative to  
17 are the (inaudible) to that, in terms of future  
18 cleanup and (inaudible) a fuel pool (inaudible)  
19 cooling. So GE, I guess, came away with a couple of  
20 items to look at in that area and that's also to be  
21 partly addressed on the call to the (inaudible).

22 Fourth item I had was just ongoing, you  
23 know, (inaudible) ground of the so-called cracking  
24 (indiscernible, possibly "study"). Obviously,  
25 especially, this is when it's rewarding to actually

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1 have your technical background come into play.

2 MALE PARTICIPANT: What's the concern  
3 about causing corrosion of (indiscernible, possibly  
4 "DOD") penetration.

5 MALE PARTICIPANT: This one was more the  
6 stress corrosion cracking following salt solution --

7 (Multiple speakers)

8 MALE PARTICIPANT: This is like -- if you  
9 were in a laboratory, like I used to be  
10 (indiscernible, possibly "a billion") 10 years ago,  
11 and you were wanting to crack stainless steels and  
12 other materials, this is how you would do it.

13 MALE PARTICIPANT: Okay, okay.

14 MALE PARTICIPANT: You'd out in a lot of  
15 salt, oil, water and stress, and so it's a classic  
16 laboratory experiment in progress on cracking in the  
17 internal, so whatever else is going on in there.

18 And I guess the background was, I was on  
19 shift two days ago, there was Berkeley professor that  
20 was quoting some astronomical growth rate, like an  
21 inch a day or something.

22 (b)(4),(b)(5)  
23  
24  
25

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(b)(4),(b)(5)

(b)(4),(b)(5)

So there's

going to be some final discussion and some final discussion, some further discussion of that today.

More to the near term, the fifth item was -- and I think this happened (inaudible) heard there was a question that was posed to the RST with regard to sort of when are we done or when are we outside an immediate catastrophic threat scenario here, and where is that ballpark, in days or weeks or whatever.

And we are working towards the (inaudible) on that, and --

MALE PARTICIPANT: Before September.

MALE PARTICIPANT: What's that?

MALE PARTICIPANT: Before September.

MALE PARTICIPANT: Just to share --

(Laughter)

MALE PARTICIPANT: Okay so this would be a realistic view of when the decay heat would be such that failure of the vessel was kind of out of the picture?

MALE PARTICIPANT: What I was -- the way it was posed to me, and I guess this is a work in progress, like you're indicating, the way it was posed

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1 to me is that when are we out of the immediate threat  
2 if, for instance, they were for some odd reason to go  
3 into another station blackout station with the current  
4 conditions, how far away are we from, you know, from  
5 (inaudible) melt, from, you know, from a catastrophe  
6 basically, some kind of explosion, something much  
7 worse than the current situation.

8 Mike Brown and I have been working on  
9 trying to, what we got from Jim Shea and basically (b)  
(5)

10 (b)(4),(b)(5)  
11  
12  
13  
14  
15  
16  
17  
18  
19

20 (b)(4),(b)(5)  
21  
22

23 (b)(4),(b)(5)

I guess the understanding is --

24 MALE PARTICIPANT: I don't know that they  
25 really know for sure, but --

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1 MALE PARTICIPANT: Yes.

2 MALE PARTICIPANT:

(b)(4),(b)(5)

3 (b)(4),(b)(5)  
4  
5  
6  
7  
8  
9

10 MALE PARTICIPANT: Right.

11 MALE PARTICIPANT: So it's a matter of how  
12 energetic would they be. You know, so it's  
13 complicated.

14 MALE PARTICIPANT: And I guess my  
15 understanding from Mike is that the administration, (b)  
(4) (b)

16 (b)(4),(b)(5)  
17  
18  
19  
20  
21  
22  
23

24 MALE PARTICIPANT: Just a couple of  
25 points. I think the question has been posed to us

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1 from TEPCO, right, so the folks that are -- and maybe  
2 through the embassy, but really through the  
3 (inaudible) folks, because they are interested in when  
4 are we (inaudible) the real (inaudible), when do we  
5 really have to stop worrying about (inaudible) and  
6 things like that, so that, you know, the first part  
7 that Mike was working on in the kind of the -- the  
8 scenario which is what the Ambassador was looking for,

9 (b)(5)  
10  
11

12 And so that was related back to the, well,  
13 if you lose the ability to (indiscernible, possibly  
14 "cool it") for the next 14 days, then that gets  
15 (inaudible).

16 But that second piece, you know, is the  
17 one that we had asked for yesterday, which is when  
18 does this -- when does the decay heat get to a level  
19 that it's no longer felt to be an issue with respect  
20 to energetic releases.

21 So that's the calculation of decay heat  
22 over time and then trying to figure out how the  
23 interaction (inaudible) vessel, with salt on top of  
24 it, water on top of it, and you know, great, go for  
25 it.

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1 I'm not proposing that that's an easy  
2 answer, (b)(4),(b)(5)

3 (b)(4),(b)(5)  
4  
5

6 (Multiple speakers)

7 MALE PARTICIPANT: So that -- and that  
8 would make a lot of people rest easier.

9 MALE PARTICIPANT:. Yes, absolutely.

10 MALE PARTICIPANT: So I guess there was an  
11 agreement that by 9:30 this morning or somewhere  
12 thereabout, that that should be presented to you all.

13 What's done with that, I guess, is you know,  
14 (inaudible) government position and then (inaudible).

15 MALE PARTICIPANT: I think that's the  
16 majority of it. I think, you know, relative to what  
17 Joe was saying, I thought (inaudible) report that was  
18 the -- unit 2 and unit 3 (inaudible) level for which  
19 the change of status had indicated that there was some  
20 amount of flood up been reported. I don't know if you  
21 all had heard that.

22 MALE PARTICIPANT: No.

23 MALE PARTICIPANT: And it's unclear as to  
24 what that means other than there's more water in there  
25 than there was previously, and they had a guess here

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1 that that means that maybe 9, 10 feet from the bottom  
2 of the (inaudible) that could be off (inaudible).

3 MALE PARTICIPANT: Have you guys done a  
4 back of the envelope calculation (inaudible), based on  
5 what we know about the flow rates going -- we have  
6 some information on the flow rates, what we would  
7 expect the level to be, based on the fact that they  
8 haven't been venting and -- you have got a mass  
9 addition to the, to the reactor, and --

10 MALE PARTICIPANT: I think the answer is  
11 yes, and I think Steve Orentz (phonetic) was doing  
12 that on the previous shift, and I think it's fair to  
13 say they do think there's as much (indiscernible,  
14 possibly "water") in there. So they weren't really  
15 sure about --

16 MALE PARTICIPANT: Yes, I mean, there was  
17 a certain philosophy that you were getting flow path.

18 MALE PARTICIPANT: Well, for unit 2 and 3,  
19 there is some -- well, okay. You are getting leakage  
20 (inaudible), you know, so that's ending up in -- well,  
21 eventually (inaudible) and then the dry well.

22 But we don't know if that (inaudible) how  
23 they are capturing it (b)(5) which I  
24 think we have anyway.

25 (Multiple speakers)

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1 MALE PARTICIPANT: Pretty much, that's --  
2 I think it's --

3 MALE PARTICIPANT: One question, this  
4 (indiscernible, possibly "dual cool") status, you  
5 know, that was an area of --

6 MALE PARTICIPANT: Different information.

7 MALE PARTICIPANT: Yes. And you know, I  
8 think we keep saying that, you know, unconfirmed or  
9 whatever, the Chairman got back from his trip to Japan  
10 and he was told they were full by the Japanese,  
11 because of some (inaudible) system.

12 And so he had based some comments that he  
13 made to some higher-up projecting that if you were to  
14 lose the ability to make up to it, then it would be,  
15 you know, (inaudible) and you'd really have an  
16 uncovering (phonetic) and a problem.

17 But he was starting with a pool that was  
18 full --

19 (Multiple speakers)

20 MALE PARTICIPANT: No, he said 3 and 4  
21 were both -- I'm pretty sure that they were both full.

22 MALE PARTICIPANT: And our information --

23 MALE PARTICIPANT: We are not confirming  
24 that.

25 MALE PARTICIPANT: Yes, that's still the

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1 case from what I know. (Inaudible) can tell you what  
2 I got on the turnover. Unit 4, they were not able to  
3 confirm. They were looking for a change from  
4 (inaudible), didn't see that.

5 They -- what I got was that they added 140  
6 tons of water in a four-hour period I guess in the  
7 last day or so, but no change was seen, and the surge  
8 tanks, there was more water in there than before, but  
9 they don't (inaudible) with a level of 100 tons added  
10 to unit 1, 120 tons added to unit 2, and 90 added to  
11 unit 1, and I'm assuming (inaudible).

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: Do you have any  
14 (inaudible) from Japan that you (inaudible)?

15 MALE PARTICIPANT: They tell us that there  
16 is structural damage to the unit 3 and (inaudible) as  
17 a result of the earthquake?

18 MALE PARTICIPANT: I thought I heard that.

19 MALE PARTICIPANT: This one here says, the  
20 update here says, you're right Joe, unit 4 structure,  
21 the information data, sent to RST from the Japan team,  
22 it didn't say NEI, but a brief assessment from the --  
23 and it says the NRC team, (inaudible) could only be  
24 (inaudible), and maybe at that point you're getting  
25 the structural damage.

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1 MALE PARTICIPANT: Yes, yes. That's what  
2 I heard.

3 MALE PARTICIPANT: And could be the same  
4 for unit --

5 MALE PARTICIPANT: This was the group from  
6 Japan. This is, like, their NEI, (inaudible).

7 MALE PARTICIPANT: Okay, and it --

8 MALE PARTICIPANT: And last week,  
9 (inaudible). That was one of the things that they  
10 conveyed to us, in addition to the (inaudible)  
11 information about the actual tsunami that (inaudible).

12 MALE PARTICIPANT: On the subject of spent  
13 fuel pools, I mean, I guess you're already aware,  
14 these don't look like our spent fuel pools in that  
15 there's not much in them, in unit 1 and 2, it's like  
16 there's one core. Right? So in fact, if it's filled  
17 up the boil off is not (indiscernible, possibly "good  
18 for seven days") (inaudible).

19 MALE PARTICIPANT: It depends on  
20 (inaudible).

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: Unit 1 and 2 had just a  
23 core in them, you know, and so boil off is not six or  
24 seven days, it's (inaudible). You're aware of that --

25 (Multiple speakers).

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1 MALE PARTICIPANT: So it doesn't look like  
2 a U.S. spent fuel pool loaded to the (inaudible) you  
3 know, high density, (inaudible).

4 MALE PARTICIPANT: Well, unit 1 and 2, but  
5 unit 3 and 4 have a higher (inaudible). They have the  
6 -- unit 3 had a -- unit 4 had the core offloaded and  
7 it was (indiscernible, possibly "full up to 100 days  
8 in core offload"), and I think they had some  
9 additional (inaudible) because the numbers we got were  
10 (inaudible). That was the number that I heard.

11 MALE PARTICIPANT: Unit 4 had a  
12 (indiscernible, possibly "full core offload"), right?

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Unit 3 had a  
15 (inaudible) (Indiscernible, possibly . "105 day")  
16 (inaudible), something like that?

17 MALE PARTICIPANT: I don't know the --

18 MALE PARTICIPANT: So, but nevertheless it  
19 does not (inaudible).

20 MALE PARTICIPANT: No, I agree with you,  
21 yes. It's true.

22 MALE PARTICIPANT: But it's not, it's not  
23 negligible either. The (inaudible) people told me in  
24 my exploration that water on the floor of a dry well  
25 containment is always (inaudible), is not, you know,

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1 it does not exceed the capacity of the dry well  
2 that's, you know, older thinking. (Inaudible)  
3 (Indiscernible, possibly "dry well has failed").  
4 (Inaudible).

5 MALE PARTICIPANT: We don't know. I mean,  
6 it could be the, it could be the suppressor pool water  
7 (inaudible) because it prevents the (inaudible)  
8 breaching the (inaudible), steam exploding is not as  
9 big a concern as the molten (inaudible) breaching the  
10 walls of the containment (inaudible).

11 That's what the (inaudible) --

12 MALE PARTICIPANT: Wouldn't that be nice if they  
13 would have (inaudible). We wouldn't have this problem  
14 now with them. And they're still resisting that, I  
15 gather, because they worry about where the water's  
16 going.

17 MALE PARTICIPANT: Can we talk about where  
18 the water's going? I am so confused.

19 MALE PARTICIPANT: We understand that the  
20 BWR (inaudible) was filled with water, probably up to  
21 the level of the (Indiscernible, possibly "down  
22 covers"), did I get that right? And yet we have this  
23 heavily-contaminated water all over the site. Those  
24 must be from -- can't we tell if that has been coming  
25 from the spent fuel pool or coming from the reactor?

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1 MALE PARTICIPANT: Yes, they knew it's  
2 from the (inaudible) the reactor, because of the  
3 iodine, you had (Indiscernible, possibly "relatively  
4 fresh iodine"), you wanted get --

5 MALE PARTICIPANT: But the torus room  
6 should hold water. So if it's bubbling out of  
7 containment, it should be filled up (inaudible).

8 MALE PARTICIPANT: Depends whether they  
9 have checked (inaudible).

10 (Multiple speakers).

11 MALE PARTICIPANT: (Inaudible).

12 MALE PARTICIPANT: Well, what happens is  
13 the torus room fills up, and if there's no check valve  
14 it goes into the (Indiscernible, possibly "corner  
15 room, and since the corner room is in the reactor  
16 building as you know, and if the reactor building  
17 hasn't (inaudible).

18 MALE PARTICIPANT: We thought the corner  
19 room would hold water, I mean, the doors would fail  
20 and the rooms would hold water.

21 MALE PARTICIPANT: The corner room, are  
22 you talking about the (Indiscernible, possibly  
23 "quads")?

24 MALE PARTICIPANT: There's the corner room  
25 --

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1 (Multiple speakers)

2 MALE PARTICIPANT: So the torus room has  
3 four corner rooms. Some of the doors would fail due  
4 to the water pressure. Others have an airlock  
5 (inaudible) submarine doors. But in any case, we'd  
6 have the whole thing holding water.

7 (Multiple speakers).

8 MALE PARTICIPANT: That's a mixed bag.

9 MALE PARTICIPANT: Yes.

10 MALE PARTICIPANT: Even here in the United  
11 States --

12 MALE PARTICIPANT: Well at Peach Bottom we  
13 thought they'd hold water, let's just put it that way,  
14 up to the level of the downcomer, and here we are  
15 getting --

16 MALE PARTICIPANT: I can tell you they  
17 probably wouldn't, because I was just at Peach Bottom  
18 yesterday and (Indiscernible, possibly "the torus  
19 didn't work").

20 MALE PARTICIPANT: Well then I need to  
21 rewrite the (inaudible) if you think that's --

22 (Multiple speakers).

23 MALE PARTICIPANT: It's been reviewed by  
24 the licensee. It's been reviewed by research, I mean -

25 -

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1 (Multiple speakers)

2 MALE PARTICIPANT: If they're still  
3 resisting flood up and I heard that also purge is put  
4 off for days (inaudible) get nitrogen in.

5 (Multiple speakers).

6 MALE PARTICIPANT: I heard this morning,  
7 two days ago, I heard it was going to be two days.  
8 This morning I just heard it was going to be days away  
9 and they are still figuring out how to get the  
10 nitrogen in and challenges I guess with the  
11 (inaudible) fuel and everything.

12 MALE PARTICIPANT: I know when I was on  
13 shift the other day, there was a question, detailed  
14 questions (Indiscernible, possibly "for GE"), about  
15 whether the purge (Indiscernible, possibly "path or  
16 paths") that we can use or could use, and it wasn't  
17 clear -- it wasn't a response (inaudible) from GE, it  
18 was how -- the best way of going about that.

19 So certainly there still remain all kinds  
20 of questions on how to do the purge. There's going to  
21 be -- somebody asked the question should you sample  
22 before you purge, how long will we have to purge, and  
23 I think the U.S. team was more like just get some  
24 purge --

25 (Multiple speakers)

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1 MALE PARTICIPANT: as a priority, and you  
2 know, you an defer some of these questions until  
3 later, but even just getting the purge going is  
4 apparently a major issue.

5 MALE PARTICIPANT: Yes, because we are  
6 still focused on the safety of the vessel and the  
7 containment, and not as focused on contamination and  
8 (inaudible) and things like that, which seems to be  
9 higher on their (inaudible).

10 MALE PARTICIPANT: The pumping system.  
11 Its status?

12 MALE PARTICIPANT: As far as I know, they  
13 are injecting --

14 (Multiple speakers)

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: I didn't phrase it  
17 properly.

18 MALE PARTICIPANT: All right.

19 MALE PARTICIPANT: The Bechtel pumping  
20 system takes water, fresh water from barges and uses  
21 it to spray --

22 MALE PARTICIPANT: That one I didn't get  
23 turnover on. So I guess I don't know. I can find out.

24 (Multiple speakers)

25 MALE PARTICIPANT: Two weeks ago.

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1 MALE PARTICIPANT: Two weeks ago, yes.

2 MALE PARTICIPANT: The spray water into  
3 the spent fuel pool (inaudible) so it seemed to have  
4 a, you know, high -- high volume --

5 MALE PARTICIPANT: (Inaudible)

6 MALE PARTICIPANT: Rather than a, you  
7 know, (inaudible).

8 MALE PARTICIPANT: Actually it's  
9 (inaudible) pump which is -- comes to -- that works as  
10 a booster pump (inaudible) so you get relatively  
11 (inaudible) to travel relatively long distances.

12 In the submersible pump the idea is that -  
13 -

14 (Multiple speakers)

15 MALE PARTICIPANT: It can be any water  
16 supply.

17 (Multiple speakers).

18 MALE PARTICIPANT: But now they're taking  
19 fresh water from the barges.

20 MALE PARTICIPANT: They are, yes.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: Yes, I didn't get  
23 turnover on that one. I'll find that out.

24 MALE PARTICIPANT: Yes, and one of the  
25 questions is, originally when it was under design, is

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1 (inaudible) but then (inaudible) could it be used as a  
2 permanent system for pumping water to the reactors?  
3 It -- would that make more sense, to use it for  
4 multiple purposes, but ultimately it's -- it's, this  
5 is like a week ago, they had two aircraft that  
6 delivered most of the system except for the fittings,  
7 and that was, like a week ago I think they got the  
8 fittings.

9 And it's been down at (inaudible), you  
10 know, the Air Force, or Naval Base.

11 MALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: And then they were  
13 shipping it to the site and I think it's onsite now,  
14 correct?

15 MALE PARTICIPANT: I don't know.

16 MALE PARTICIPANT: I think it's onsite.

17 MALE PARTICIPANT: Mike had indicated  
18 before he left that the barges were -- or a barge at  
19 least was there.

20 MALE PARTICIPANT: I'm talking about, yes,  
21 there's like two pieces of this, the barges and then  
22 there's the pumps.

23 MALE PARTICIPANT: That's right.

24 MALE PARTICIPANT: (Inaudible) now and  
25 things like that to move into place.

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1 MALE PARTICIPANT: But the primary intent  
2 was for spraying the pool. That was the initial  
3 intent.

4 MALE PARTICIPANT: Right.

5 MALE PARTICIPANT: So then I think they  
6 were also going could it be used for other things as  
7 well. But I think it's two parts to the question.  
8 One was where is the and what's the status, but the  
9 other is that you guys need to consider that system in  
10 your, you know, the -- that you're working on the  
11 spent fuel pool, (inaudible) strategies and you know,  
12 that's what (Indiscernible, possibly "they meant").

13 MALE PARTICIPANT: And then there was a  
14 second train that they authorized funding for, the  
15 last time I was on, I don't know whether that came to  
16 reality or not, that second train going forward.

17 And so, because it -- I think it's pretty  
18 clear that that would also be useful if they had  
19 another train, and you know this thing is going to  
20 have a service life and at some point you need to  
21 start thinking about backups for it too, if we're  
22 going to rely on it.

23 MALE PARTICIPANT: One thing that's not  
24 clear to me, you know, obviously they have AC power  
25 onsite now, and they have pumps they are using, in

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1 addition to the, you know, the individual (inaudible)  
2 pumps they had (inaudible) pumping the water, and they  
3 seem to have a source of fresh water. It's not clear  
4 to me how long that is going to last, or do they have  
5 to replenish it and what their strategy is, and  
6 whether they would even consider the use of these  
7 systems or if they would just be there as a backup.

8 You know, I know that -- maybe it's me but  
9 it's not clear to me what the grand strategy is.

10 MALE PARTICIPANT: Yes, what I heard the  
11 other day was that this reservoir that's (inaudible)  
12 miles away, that they had some kind of hard piping  
13 from, that the flows were not significant and that the  
14 maximum flows were much less (inaudible) than we were  
15 talking about here, so that was already hooked into  
16 the site and I think that was the way that it was  
17 getting there, the primary source of water (inaudible)  
18 Navy barges. I guess the barges would augment that.

19 MALE PARTICIPANT: That -- an underground  
20 piping system that was used to do the initial fill of  
21 the plant, and it was somewhat abandoned --

22 MALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: after construction.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: And they've kind of

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1 resurrected it because it's a lot better than  
2 seawater, fresh water.

3 MALE PARTICIPANT: Okay, that's what it  
4 is.

5 MALE PARTICIPANT: And it comes down from  
6 above this (Indiscernible, possibly "dam, so I guess  
7 that's the source of water").

8 MALE PARTICIPANT: So in least in theory  
9 that's, you don't have to worry about the  
10 replenishment. I think there were flow rate concerns,  
11 that the maximum flow they could get out of it was not  
12 anywhere near replenishment --

13 MALE PARTICIPANT: That was the question  
14 that came to my mind -- after having such a high  
15 magnitude earthquake, what do you have left?

16 MALE PARTICIPANT: Yes, the piping was  
17 like 30 years old --

18 MALE PARTICIPANT: Yes, and it was  
19 probably concrete piping, I would suspect. Whether  
20 it's a good source or not, I don't know. (Inaudible).

21 (Multiple speakers)

22 MALE PARTICIPANT: Were you aware that  
23 (inaudible) is interested in a phone call with the  
24 Reactor Safety Team?

25 MALE PARTICIPANT: No.

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1 MALE PARTICIPANT: Is that this morning  
2 (inaudible)?

3 MALE PARTICIPANT: They were looking for a  
4 routine phone call, so I don't know whether you guys  
5 do that or the (inaudible).

6 MALE PARTICIPANT: The connection's back  
7 through them.

8 MALE PARTICIPANT: Yes.

9 (Multiple speakers)

10 MALE PARTICIPANT: We'll get all of you  
11 involved. It was not on our -- the RST --

12 (Multiple speakers)

13 MALE PARTICIPANT: I think I saw something  
14 about it this morning. I'll go back and look.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: I think we are planning  
17 on a call at 7 p.m. Eastern Daylight Time and then  
18 (inaudible).

19 (Multiple speakers)

20 MALE PARTICIPANT: That would suggest PMT  
21 maybe RST needing the (inaudible).

22 MALE PARTICIPANT: This is back to the  
23 (inaudible) just simply of --

24 MALE PARTICIPANT: Yes, they want to know  
25 when they can (inaudible).

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1 MALE PARTICIPANT: They have their  
2 technical people, they are not unlike us, they want,  
3 you know, technical people -- they all (inaudible) and  
4 things like that, and I think having them probably as  
5 a team participate in that, might, you know, I think  
6 (inaudible) better than us, I mean, you know, and then  
7 just have the team call in.

8 MALE PARTICIPANT: Well, that's what I  
9 understand. I need to --

10 (Multiple speakers)

11 MALE PARTICIPANT: I don't think it's  
12 certain yet. But it has been discussed and I think  
13 there's the tracking item to resolve that.

14 (Multiple speakers)

15 MALE PARTICIPANT: I saw it somewhere.  
16 I've read so much this morning, Randy, I don't know  
17 where -- who broached the subject

18 MALE PARTICIPANT: The item I had, is that  
19 I think the ET asked us to try to get a single point  
20 of contact for Pacom. Apparently in the middle of the  
21 night we get the sergeant from the airbase asking us  
22 for information, and we want to help him.

23 MALE PARTICIPANT: Actually, it's been --  
24 that's on the items here, which (inaudible). We  
25 received a number of calls from military field units

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1 last night, primarily Navy and Marines, but I think  
2 all the services have been represented, and they are  
3 concerned over radiation levels, decontamination  
4 procedures, screening for (inaudible) leaving the  
5 country, things like that.

6 We have been passing this back to Vince  
7 Callahan so he can work it, because he is embedded  
8 with Pacom. And they're -- I guess from perspective,  
9 we don't feel that those military field units are  
10 getting good information from their (inaudible), and  
11 so that's probably one thing we need to try to  
12 strengthen. So I think a call would be very valuable.

13 MALE PARTICIPANT: I'm a little out of  
14 calibration on that issue. Marty Virgilio was very  
15 succinct a few nights ago in telling us that, you  
16 know, that is not our responsibility and that actually  
17 that's going to pass off to DOE in country, or the  
18 National Security Council, or something.

19 I mean, we are happy to provide guidance.  
20 The point is that you call him, right? They keep  
21 calling us, and if we can, you know, share information  
22 with them, encourage them to disseminate it to  
23 everybody in the organization, it might help --

24 (Multiple speakers)

25 MALE PARTICIPANT: Getting it back to them

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1 is --

2 MALE PARTICIPANT: (Inaudible) naval  
3 reactors (inaudible).

4 MALE PARTICIPANT: Yes, it's not a role  
5 that we are --

6 MALE PARTICIPANT: Well, I mean, I'm happy  
7 to help some poor guy in the field trying to do  
8 something. I mean, that's not the issue. But it  
9 seems like I could give them guidance that would  
10 conflict with what they are --

11 (Multiple speakers)

12 MALE PARTICIPANT: We are all agreeing.  
13 In this conversation we are agreeing that we shouldn't  
14 be in that role (inaudible).

15 MALE PARTICIPANT: (b)(5)

16 (b)(5)

17

18

19

20

21

22 MALE PARTICIPANT: Has he told you what  
23 that time frame is because I heard (inaudible).

24 (Multiple speakers)

25 MALE PARTICIPANT: which is leave now if

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1 that's what you want to do, I mean --

2 (Multiple speakers)

3 MALE PARTICIPANT: No, of course.

4 MALE PARTICIPANT: Right, yes.

5 MALE PARTICIPANT: I think probably we  
6 could give him 20 hours.

7 MALE PARTICIPANT: (b)(5)

8 (b)(5)

9 MALE PARTICIPANT: No.

10 MALE PARTICIPANT: (Inaudible) (b)(5)

11 (b)(5)

12 (b)(5)

13 (b)(5) and a fire guy or a spent fuel fire guy  
14 came over and said a spent fuel pool fire is not a  
15 subtle event. If it's ongoing, you will know it.

16 MALE PARTICIPANT: Well, but if you look  
17 at it -- (inaudible) if its pool is (Indiscernible,  
18 possibly "below fuel") and it's boiling, it could be  
19 100 degrees, (b)(5)

20 (b)(5)

21 So (Indiscernible, possibly "when you hit the  
22 day 5"), great, this is good.

23 MALE PARTICIPANT: (b)(5)

24 (b)(5)

25 MALE PARTICIPANT: (b)(5)

(b)(5)

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(Multiple speakers)

MALE PARTICIPANT: So they asked us whether we had interest.

(Multiple inaudible speakers)

MALE PARTICIPANT: (Inaudible) think about what -- if there were some things that we -- you could define something and (inaudible), how we can (inaudible).

MALE PARTICIPANT: One of the things that I understood from Mike is that (b)(5)

(b)(5)

(b)(5)

(inaudible).

MALE PARTICIPANT: You have about three days' worth of (inaudible).

MALE PARTICIPANT: I already mentioned that contacting (inaudible) and I guess the Liaison Team will work that out. It seems like you've already got that issue.

MALE PARTICIPANT: I think it's a tracker issue. I'm not sure who it's assigned to, so I need to go back and look.

MALE PARTICIPANT: Whatever, we're happy to have that discussion. I don't know, Vince doesn't (Indiscernible, possibly "rule that world"), but we can certainly ask him to try to, try to do that.

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1           You know, we reviewed the U.S. DHS, the  
2 Customs, the CDC guidance or the customs and border  
3 patrol regarding cargo contamination and we were a  
4 little bit flummoxed.

5           The previous shift said they reviewed it  
6 and closed the item and then we couldn't find  
7 anything.

8           MALE PARTICIPANT: The item is -- we were  
9 looking for that. The item does exist, and --

10          MALE PARTICIPANT: I've got it. The  
11 reason there is nothing on it is we have no comment on  
12 the regimen that they are about to use. They simply  
13 (inaudible) translated the standard DOT contamination  
14 level for cargo into what a monitor might read and  
15 gave that as guidance, a portable monitor, or maybe  
16 it's a handheld monitor.

17          We have no way to challenge that  
18 calculation, but if that's what it's based on, nobody  
19 is giving anybody any special dispensation to do away  
20 with the DOT regs for transport. So if they did the  
21 calculation right, then we agree with the basis. We  
22 are not capable of verifying that calculation here.  
23 We certainly could have research or (inaudible).

24          (Multiple speakers)

25          MALE PARTICIPANT: What they did, they

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1 translated into a disintegrations per second kind of  
2 thing. Unless we were going to waive DOT  
3 contamination levels for cargo, they did what you  
4 would expect them to do.

5 MALE PARTICIPANT: They'll just stay with  
6 the standards unless they have another tool.

7 MALE PARTICIPANT: Yes, sure, I mean, do  
8 we want to -- do we want to waive those limits for  
9 stuff coming out? I mean, it would -- is that our  
10 call?

11 MALE PARTICIPANT: It's not our call.  
12 It's not our call, right? That's where we came down.  
13 So we have no comment. That's the long and short of  
14 it. (b)(5)

15 (b)(5)  
16  
17  
18  
19  
20  
21

22 MALE PARTICIPANT: The good news, maybe  
23 you already know this, is the nuclear plant  
24 environmental data, we were out of the loop on that,  
25 there was some -- it being uploaded to an NEI website,

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1 EPA can grab it from there. We don't need to be  
2 involved, which -- I think it's just fine.

3 MALE PARTICIPANT: I haven't looked at the  
4 EPA website, but when last I did they were not  
5 publishing nuclear plant data. They were publishing  
6 their own.

7 MALE PARTICIPANT: Right. And that's  
8 still what's going on?

9 MALE PARTICIPANT: Last time I looked at -  
10 -

11 (Multiple speakers)

12 MALE PARTICIPANT: You're talking about  
13 rad (inaudible), right?

14 MALE PARTICIPANT: Yes.

15 MALE PARTICIPANT: Which makes all the  
16 sense in the world to me, I mean, they know their  
17 system, right. Here, they get this data. But there  
18 are some states, you know, states get environmental  
19 data from the plants too, and you know, there  
20 measurable, very low levels at some sites and states  
21 have that information and will publish it or do  
22 whatever they're going to do with it.

23 MALE PARTICIPANT: We did have a little  
24 bit of a flurry of activity over the weekend. We got  
25 a call from the Assistant Secretary of HHS responsible

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1 for essentially EP, and I can't remember her title,  
2 but she was concerned because they were getting -- EPA  
3 was getting information from the states about iodine  
4 131, and (inaudible) at our plant, she wanted to make  
5 sure that they were from the Japanese so that then,  
6 you know, weren't coming from our power plants.

7 So we talked to her, put her at ease and I  
8 think that put that issue back. But the next day I  
9 think, maybe it was Monday, the governor issued a  
10 press release about the level of radioactivity they  
11 were discovering (inaudible).

12 MALE PARTICIPANT: This made the nightly  
13 news last night, because I was watching NBC and they  
14 had Brian Williams' report on, I guess it's  
15 (inaudible). Part if the critique was a number of the  
16 monitors were not functional, or weren't operating  
17 correctly or hadn't been calibrated, and you know, it  
18 was presented in that light.

19 MALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: Here's the thing that's  
21 supposed to be there to protect the public, and well,  
22 maybe not so much.

23 MALE PARTICIPANT: Oh really.

24 (Multiple speakers)

25 MALE PARTICIPANT: It's actually pretty

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1 cool, though, if you get a chance to look at it. If  
2 you click on the monitoring stations, you know, they  
3 have a vertical bar there that shows when the Japanese  
4 earthquake happened, and you can see a couple of days  
5 after that the level started to rise.

6 So it has pretty interesting -- and it  
7 shows, you can scroll down and it will give you the  
8 actual energy spectrum, so you can tell what isotope  
9 it is.

10 MALE PARTICIPANT: The unfortunate media  
11 piece to it is that you can picture this. They have a  
12 map of the U.S. with the radiation, you know, icon  
13 flashing. All over the country, you're showing them  
14 increased levels. I mean, if you are Joe Public, the  
15 whole country is lighting up.

16 (Multiple speakers)

17 MALE PARTICIPANT: I guess you know  
18 research, thank goodness, (inaudible) is doing the  
19 hypothetical source term. I'm a little bit surprised  
20 they have until Friday to develop it, but -- and I  
21 also think I understand, nobody has answered this yet.

22 So I was -- (b)(5)

23 (b)(5)

24 (b)(5)

on a (inaudible) memo, an email  
25 yesterday, day shift.

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1 MALE PARTICIPANT: The turnover I got was

2 (b)(5)

3 (b)(5)

So my sense is the answer is

4 no. I didn't research that exact question. But,  
5 telling what I know, (inaudible) until directed to.

6 MALE PARTICIPANT: But is research still  
7 doing it?

8 MALE PARTICIPANT: I mean I assume so, but  
9 I'll have to touch base.

10 MALE PARTICIPANT: Yes. They called me  
11 when they saw it rather piqued regarding the  
12 interface.

13 (Multiple speakers)

14 MALE PARTICIPANT: (Inaudible) and they  
15 were working o it and I would assume they are still  
16 working on it. I am surprised they didn't get done  
17 today, but this is the (Indiscernible, possibly

18 (b)(5)

19  
20 MALE PARTICIPANT: (b)(5)

21 (b)(5)

22 (Multiple speakers)

23 MALE PARTICIPANT: (Inaudible)

(b)  
(5)

(b)(5)

24 --

25 MALE PARTICIPANT: Not quite.

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1 MALE PARTICIPANT: Not quite.

2 MALE PARTICIPANT: This is still -- (b)(5)

3 (b)(5)

4  
5  
6 (Multiple speakers)

7 MALE PARTICIPANT: (b)(5)

8 (b)(5)

9  
10 MALE PARTICIPANT: (b)(5) ck

11 (b)(5)

12 (Multiple speakers)

13 MALE PARTICIPANT: Yes, it's that one.

14 MALE PARTICIPANT: I will check the status  
15 of that, but I'm assuming that --

16 MALE PARTICIPANT: And the reason that  
17 it's okay by the end of the week is that (b)(5)

18 (b)(5)

19 (b)(5) (inaudible). So there is a little time  
20 left.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: But that is a good  
23 thing that research is doing the source term rather  
24 than (inaudible).

25 MALE PARTICIPANT: Okay. Oh yes.

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1 (Multiple speakers)

2 MALE PARTICIPANT: But using Rasco  
3 (phonetic) to develop a source term is fine, in the  
4 first 8, 12, 24 hours. After that we got wizards who  
5 do it for a living. We've got Melcor, you know, we  
6 can do better than that. So we're doing that.

7 MALE PARTICIPANT: You know this is like  
8 trying to open one of those puzzles. It's just so  
9 aggravating. If this were our site, we'd ask a  
10 question, we'd take a sample, we'd do a survey, we'd  
11 get the information.

12 But I do not understand, maybe I don't  
13 need to understand, where the contaminated water on  
14 site is coming from. I don't believe (inaudible),  
15 maybe they do. We can have that -- and we don't know  
16 their design. Maybe their torus rooms (Indiscernible,  
17 possibly "leak"), but you know, if should have been  
18 holding up a huge volume of water.

19 If it's streaming out of the torus and we  
20 thought some of the tori are (inaudible, laughter) --

21 (Multiple speakers)

22 MALE PARTICIPANT: then it should be  
23 filling up the corner room. It shouldn't be all over  
24 the site, unless they spilled out of the corner room,  
25 in which case they've spilled up to the bottom of the

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1 vessel, which they don't want to do.

2 (Multiple speakers)

3 MALE PARTICIPANT: (Inaudible) that holds  
4 for the torus, you know, so I don't know the  
5 configuration. It's so frustrating. But I guess all  
6 you can think is that there was seismic damage to the  
7 foundation --

8 (Multiple speakers)

9 MALE PARTICIPANT: So that room is not  
10 designed to be necessarily what (inaudible).

11 MALE PARTICIPANT: Right.

12 MALE PARTICIPANT: You know, there's pipes  
13 and conduits and all sorts of pathways to go from one  
14 place to another. If you're going to have a  
15 hydrostatic pressure, it's going to be driving the  
16 water from one place to another.

17 (Multiple speakers)

18 MALE PARTICIPANT: (Inaudible) it's going  
19 to hold water, but that's only one data point. Who  
20 knows what these other (inaudible).

21 MALE PARTICIPANT: It would probably hold  
22 water (Indiscernible, possibly "into a third night")  
23 and then after that --

24 (Multiple speakers)

25 MALE PARTICIPANT: But the level of it

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1 should be relatively contained.

2 (Multiple speakers)

3 MALE PARTICIPANT: To me that's a lesser  
4 issue than --

5 MALE PARTICIPANT: Oh yes.

6 MALE PARTICIPANT: It seems like the  
7 Japanese have that flipped.

8 MALE PARTICIPANT: With the contamination  
9 they have on that site, why would they care?

10 (Multiple speakers)

11 MALE PARTICIPANT: All right, that's all  
12 I've got.

13 MALE PARTICIPANT: All right, John?

14 MALE PARTICIPANT: I guess the positive  
15 thing, the INPO list is now merged with the U.S.  
16 embassy list. I'm not very familiar with what is on  
17 this list. I think it's the -- I think these lists  
18 include what's available and, you know, what is  
19 needed, and I believe our position is that the U.S.  
20 embassy takes the lead in communicating  
21 (Indiscernible, possibly "with all U.S. facilities")  
22 in Japan.

23 It looks like our role, based on the  
24 turnover here, is to (Indiscernible, possibly "report  
25 the vetting process"). I guess there's been a lot of

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1 work that we have done trying to help the Japanese  
2 define what they need. (b)(5)

3 (b)(5)  
4

5 MALE PARTICIPANT: My understanding is,  
6 that I think this is -- the list is all the  
7 (inaudible) that all the various lists that have been  
8 made for support to Japan, and there was an  
9 (inaudible) list, a checklist, and things like that.  
10 So my understanding, through the consortium, is that  
11 Chuck has (inaudible) shuffled over to Chuck and then  
12 I presume back through the embassy to (inaudible). So  
13 I think that's a positive thing.

14 We supported the, provided -- well,  
15 actually the RST, PMT and the (inaudible) reported a  
16 call with a Claire Smolik from the Department of  
17 State. She was -- requested information concerning  
18 the IAEA report regarding the I-131 and cesium-137  
19 exceeding limits, and the recommendation to move out  
20 evacuations to 24 miles.

21 Also, we have the basis for our 15-mile  
22 radius recommendation. And also asked about reports  
23 in the IAEA publication The Guardian and this was --  
24 the reason I bring this up is Secretary Clinton is  
25 having some kind of press conference this morning,

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1 that all this information was sought to prepare her  
2 for -- what's that?

3 MALE PARTICIPANT: She expects questions,  
4 John, on the (inaudible)?

5 MALE PARTICIPANT: The -- yes, the basis  
6 on why is the IAEA recommending -- what were the  
7 contamination levels, and we have heard that they are  
8 higher and we did -- I believe the PMT did confirm  
9 that there was a hot spot, and that original 24-mile  
10 radius --

11 MALE PARTICIPANT: We've seen that hot  
12 spot --

13 (Multiple speakers)

14 MALE PARTICIPANT: None of this was really  
15 new information we provided them, but -- it's somewhat  
16 surprising to us that they were seeking this  
17 information now for a press release. A lot of this is  
18 pretty old news.

19 MALE PARTICIPANT: That hot spot, we think  
20 received the one-meter, multi-year relocation  
21 (inaudible). Now --

22 (Multiple speakers)

23 MALE PARTICIPANT: Yes, that was  
24 presented, I mean --

25 MALE PARTICIPANT: You folks need to leave

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1 right that second, kind of --

2 MALE PARTICIPANT: Yes, the relocation  
3 that is close to the -- yes, the evacuation  
4 (inaudible).

5 MALE PARTICIPANT: One of the areas in The  
6 Guardian was concerning the -- how did they say that -  
7 - the scrapping of the (inaudible) by the Japanese and  
8 the -- and we didn't really make a lot of comment on  
9 it. But I guess what we did say is it would seem  
10 logical that these would be scrapped.

11 (Multiple speakers)

12 MALE PARTICIPANT: Soft water might have a  
13 deleterious effect on the reactor.

14 MALE PARTICIPANT: (Inaudible) TEPCO  
15 official (inaudible).

16 MALE PARTICIPANT: Oh, sure.

17 MALE PARTICIPANT: (Inaudible). At least  
18 they've confirmed it.

19 MALE PARTICIPANT: So anyway, we could get  
20 something out of that press conference, I'm sure  
21 (inaudible) what she gets asked (inaudible).

22 (Multiple speakers, interference)

23 MALE PARTICIPANT: When that decision was  
24 made, it was based on much more than just evacuation  
25 (inaudible) the sort of thing that really had to do

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1 with infrastructure and concerns for health, all that  
2 kind of stuff.

3 And I don't know if we ever captured that  
4 in a Q&A and I don't know whether also the team --

5 (Multiple speakers)

6 MALE PARTICIPANT: What I recall is,  
7 because I posed the question because I have had  
8 several of the ACRS members asking all kinds of  
9 questions, and so I posed the question, Bill Rulens  
10 (phonetic) at the time, and he handed it off.  
11 Patricia Milligan (phonetic) put together a Q&A which  
12 seemed pretty well done. This has been since about  
13 two days ago, I think it was. (Inaudible).

14 MALE PARTICIPANT: No, actually, I have  
15 (inaudible). I was there when I did it. I understood  
16 the basis.

17 (Multiple speakers)

18 MALE PARTICIPANT: Well yes, I was there  
19 when they --- the night they actually made the  
20 recommendation, and my recollection was at the time,  
21 there was so much uncertainty, whether (inaudible),  
22 what was going on with the (inaudible) and the spent  
23 fuel pool, (Indiscernible, possibly "they didn't use  
24 Rasco"), and you know, granted, it was a conservative  
25 source term, but it was based on the best knowledge

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1 that we had at the time, and the recommendation is one  
2 that we would have made, had it been, you know, a  
3 situation in our country.

4 So you had three, you know, core melts and  
5 a spent fuel pool (inaudible) -- a spent fuel pool, we  
6 didn't know the status of the other three. So we were  
7 --

8 (Multiple speakers)

9 MALE PARTICIPANT: But it was, it was, you  
10 know, a substantial source term and of course Rasco  
11 were making some relatively conservative assumptions  
12 about reduction factors and whatnot. So that's kind  
13 of where we came out, and it was conservative but it  
14 was based on the best knowledge given the  
15 uncertainty.

16 MALE PARTICIPANT: And winds blowing back  
17 over the island.

18 MALE PARTICIPANT: Yes.

19 MALE PARTICIPANT: Just to round this off,  
20 I mean, I distinctly remember that the strategy was,

21 (b)(5)

23 (Multiple speakers)

24 MALE PARTICIPANT: Well, okay, because you  
25 know, (b)(5)

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1 (b)(5)

2 (Multiple speakers)

3 MALE PARTICIPANT: (b)(5)

4 (b)(5)

5 MALE PARTICIPANT: Yes, well, if we  
6 couldn't get any information on the spent fuel pool,  
7 (inaudible) and you know, that there was only one  
8 core, that you know, we thought we'd boil dry in four  
9 to six days. You know, if it looked like one of our  
10 spent fuel pools, it would have, you know, we didn't  
11 know (inaudible).

12 Anyway, I'm not sure that part really --

13 MALE PARTICIPANT: Well, it's a good one  
14 to follow up on because that has all kinds of  
15 potential for coming up in --

16 (Multiple speakers)

17 MALE PARTICIPANT: we had a Q&A on it.

18 (Multiple speakers)

19 MALE PARTICIPANT: Can you remember who  
20 was the (inaudible), was it Trish?

21 MALE PARTICIPANT: You know, I don't know  
22 if she was director at the time or --

23 (Multiple speakers)

24 MALE PARTICIPANT: But it was a  
25 recommendation made and the Chairman (inaudible). One

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1 of my members was giving a talk in New York because he  
2 is a professor, and he was posed the question, the  
3 obvious question comes, well, if you all are backing  
4 this for Japan, what if this happened at Indian Point?

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: And he said so would  
7 mean the U.S. NRC is recommending evacuating Manhattan  
8 --

9 MALE PARTICIPANT: Right.

10 MALE PARTICIPANT: And the answer, well, I  
11 guess so.

12 (Multiple speakers)

13 MALE PARTICIPANT: Yes, you don't have  
14 that kind of source (Indiscernible, possibly  
15 "worry"), but that kind of -- want to make sure --

16 MALE PARTICIPANT: It's lost on the  
17 public.

18 (Multiple speakers)

19 MALE PARTICIPANT: Okay, so I don't know  
20 if the Chairman had to address (inaudible) through  
21 other avenues.

22 (Multiple speakers)

23 FEMALE PARTICIPANT: Does anybody know  
24 him?

25 MALE PARTICIPANT: I was going to

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1 (inaudible).

2 FEMALE PARTICIPANT: No, (inaudible)  
3 (Indiscernible, possibly "should not be used").

4 FEMALE PARTICIPANT: (Inaudible) contacted  
5 me because he has a (inaudible) call at 10:30  
6 (inaudible) the White House on the (inaudible) Japan  
7 and (inaudible) contamination they are finding are  
8 orders of magnitude lower than that.

9 The DOT limits are higher, so if we return  
10 it to Japan they are going to say it's within our  
11 regulatory limits. So I am not sure if people  
12 understand this. It should be -- there should be a  
13 (inaudible) the numbers they are finding are very low,  
14 so (inaudible).

15 MALE PARTICIPANT: Well why don't we just  
16 use the customs and border patrol guidance on you know  
17 --

18 (Multiple speakers)

19 FEMALE PARTICIPANT: Because I think  
20 (inaudible).

21 MALE PARTICIPANT: Yes, I knew that Rob  
22 was going to the meeting (inaudible).

23 MALE PARTICIPANT: Sure.

24 FEMALE PARTICIPANT: So that ET believes  
25 (inaudible) it should be DOT (Indiscernible, possibly

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1 "regs") (inaudible)?

2 MALE PARTICIPANT: I have no reason to  
3 deviate from DOT regs, but we can't -- can we  
4 (inaudible) you've got a telecon in five minutes, so  
5 let's you and I work this and --

6 FEMALE PARTICIPANT: It's just I think you  
7 need to be aware of it, if you want this you can have  
8 it.

9 MALE PARTICIPANT: No, I want to talk to  
10 you about it. I would have (inaudible) for DOT, so  
11 let's let him get out of here, and you and I will --

12 MALE PARTICIPANT: I'm good.

13 (Multiple speakers)

14 MALE PARTICIPANT: Everybody needs to  
15 engage in that conversation. Let me understand it in  
16 a little more detail.

17 FEMALE PARTICIPANT: I'm sorry.  
18 (Inaudible).

19 MALE PARTICIPANT: (Indiscernible,  
20 possibly "You need a recommendation. That's what I  
21 understood.")

22 FEMALE PARTICIPANT: Yes, we've been aware  
23 of the fact that you have (inaudible) lot of levels of  
24 contamination (inaudible).

25 MALE PARTICIPANT: And only one other

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1 thing. It appears that -- well, two other things..  
2 It appears that Sandia is sending three personnel to  
3 Japan, and it's in addition to the three -- the PNML  
4 folks who are already there. So our team is reporting  
5 it's getting crowded over there. But -- so the DOE  
6 will have a little bit more, I suppose, analysis  
7 (inaudible). And they're sending some emails going  
8 back and forth and Chuck's trying to do things, the  
9 team with the Japanese folks. The Japanese folks  
10 (inaudible) control (inaudible).

11 MALE PARTICIPANT: What are these folks  
12 doing, John? Is their expertise in --

13 (Multiple speakers)

14 MALE PARTICIPANT: (Inaudible).

15 MALE PARTICIPANT: And lastly, I'm just  
16 trying to integrate them into the team (inaudible).

17 MALE PARTICIPANT: Maybe FEMA has some  
18 trailers.

19 MALE PARTICIPANT: So three more?

20 MALE PARTICIPANT: Yes, three more.

21 MALE PARTICIPANT: I heard two yesterday,  
22 so --

23 MALE PARTICIPANT: Yes, well what I have  
24 here is three in addition to the three that  
25 (inaudible). Also, I guess there is a DDC (phonetic)

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1 request to embed a person in our ops center and I  
2 guess that's going to happen -- DDC, standing for

3 (Multiple speakers)

4 MALE PARTICIPANT: control, because our  
5 DOE person has left and is not coming back and they  
6 are not staffing the DOE liaison from the (inaudible)  
7 anymore. So we would -- that's what we are finding  
8 out and setting up (inaudible).

9 Evidently Roy Zimmerman and Mike Weber  
10 have spoken to Phil (Indiscernible, possibly "or  
11 Marvin") at CDC in the Atlanta, and (inaudible) had --  
12 it was reported by (inaudible).

13 That's basically all I have, at least that  
14 I'm aware of, on my first day (inaudible). We need to  
15 get back into the (inaudible).

16 MALE PARTICIPANT: All right. Anything,  
17 Joe, from your perspective that you want to  
18 (inaudible)?

19 MALE PARTICIPANT: Yes, (inaudible).

20 MALE PARTICIPANT: Is there anything I can  
21 do to help you get ready for the (inaudible)? I  
22 wanted to try to get the answer from (Indiscernible,  
23 possibly "Nelson") on the Q&A having to do with the  
24 50 miles. I'll try to track that down.

25 (Inaudible)

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1 MALE PARTICIPANT: It might be pretty  
2 straightforward.

3 MALE PARTICIPANT: They've been going,  
4 like, what, (inaudible).

5 MALE PARTICIPANT: I guess the focus, what  
6 I heard from Mike, is that they want to have more  
7 about what we were doing and the status --

8 (Multiple speakers)

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: All right.

11 MALE PARTICIPANT: If there's anything I  
12 can do to help --

13 MALE PARTICIPANT: All right, well I'm  
14 going to go powder my nose. (Inaudible).

15 MALE PARTICIPANT: Really? Is that what  
16 you guys do (inaudible)?

17 MALE PARTICIPANT: That here is the  
18 primary role, really.

19 MALE PARTICIPANT: And the best food.

20 MALE PARTICIPANT: Wow.

21

22

23

24

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**Official Transcript of Proceedings**  
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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 FRIDAY

7 APRIL 1, 2011  
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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: You've got to have  
3 hope.

4 MALE PARTICIPANT: You do. You do.

5 OPERATOR: There are currently 24  
6 participants in your conference. The following people  
7 are in the conference:

8 LINDA HOWELL: Region 4.

9 CATHY HANEY (phonetic): Cathy Haney, and  
10 NMFF (phonetic).

11 RICK SMOCKER (phonetic): (phonetic) Rick  
12 Smocker. (indiscernible, possibly "sentence").

13 ROLAND PETERSON (phonetic): (phonetic),  
14 Region III, duty officer.

15 RAY POWELL (phonetic): Ray Powell, Region  
16 I.

17 RAY CAMPER: Ray Camper FSME.

18 ERIC LEEDS (phonetic): (phonetic).

19 TIM ANDERSON: PO's (phonetic) Office.

20 TERRY REESE: FSME.

21 DODGEMAN (phonetic): Dodgeman (phonetic),  
22 Chairman's Office.

23 TIMOTHY McCARTEN (phonetic): Timothy  
24 McCarten (phonetic), NMFF

25 MATT CASTLEMAN (phonetic): Matt Castleman

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1 (phonetic), Commissioner Swenekie's (phonetic) office.

2 MIKE SNODERLY (phonetic): Mike Snoderly  
3 (phonetic), Commissioner Postalockas's (phonetic)  
4 office.

5 ERROL JOHNSON (phonetic): Errol Johnson  
6 P, Intelligence, NRC Headquarters.

7 ELLIOT BRENNER: Elliot Brenner, Public  
8 Affairs.

9 DENNIS SOLENBERGER (phonetic): Dennis  
10 Solenberger (phonetic), FSME.

11 MIKE TRENERVICH (phonetic): Mike  
12 Trenervich, Commissioner Ossendorf's (phonetic)  
13 office.

14 SCOTT MOORE: Scott Moore, FSME.

15 ANGELA McINTOSH (phonetic): Angela  
16 McIntosh (phonetic), FSME.

17 MARVIN SYKES: (phonetic) Marvin Sykes  
18 (phonetic).

19 BILL ORDERS: (phonetic) Bill Orders  
20 (phonetic), Commissioner Magwa's (phonetic) office,  
21 operations officer.

22 OPERATOR: Roster playback is  
23 complete.

24 MICHAEL WEBER: Good morning, everyone.  
25 This is Mike Weber in the ops center. Thanks for

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1 joining us this morning for our commissioner  
2 assistance call.

3 First start on plant status and then cut  
4 to more about what we're doing working within the  
5 Federal Government.

6 I should start out by saying there is a  
7 principal's meeting that the Chairman plans to  
8 participate in later this morning. So, in terms of  
9 Federal interagency coordination and support to our  
10 Japanese counterparts, we may expect to hear some  
11 significant feedback out of that meeting that would  
12 help shape our continued efforts to respond.

13 In terms of the plant's status, it remains  
14 largely the same. We did want to call to your  
15 attention in the report that came out last night at  
16 about 1800, there was some incorrect information with  
17 respect to whether pumping had stopped into Reactor  
18 Unit No. 2.

19 We understand that the pumping continues,  
20 so we didn't want people going on that inaccurate  
21 information.

22 But, in terms of other highlights, the  
23 reactor safety team yesterday concluded working with  
24 all their different industry and agency partners and  
25 update a Revision 1 to the severe accident mitigating

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1 strategies.

2 That document has been transmitted to our  
3 team in Japan and has been shared with our Japanese  
4 counterparts. That's also been shared with the other  
5 agencies that we've been working with to support the  
6 response in Japan.

7 The RSP is now working on a similar  
8 document that focuses specifically on what strategies  
9 could be used for getting water into the spent fuel  
10 pools.

11 The primary focus of the existing set of  
12 strategies was on the reactors, and now we're turning  
13 more attention to work on the spent fuel pool.

14 We saw today in the update from the  
15 Department of Energy some new aerial measurements data  
16 that were collected on the 31st of March. We're still  
17 working to understand what they may mean, but  
18 according to these data, it shows elevated levels out  
19 perhaps 50 miles from the plant.

20 They are not significantly elevated, but  
21 they are still significantly above background and it  
22 looks like it's some sort of contamination. It's not  
23 a wide area but it -- again, the distance from the  
24 plant is what has attracted our attention.

25 We do know that they took a variety of

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1 additional measurements on the 1st of April which is  
2 rapidly coming to conclusions there in Japan, but they  
3 haven't processed or shared those data.

4 The Department is frequently updating the  
5 plots and sharing that information on the website. So  
6 I think we were working to get to all the different  
7 partners internally to the NRC, the address for that  
8 data so that you could continue to maintain currency  
9 with respect to what information is being shared  
10 broadly outside of the Federal Government.

11 In terms of source term development work,  
12 we provided some additional source term information to  
13 NARAC (phonetic) to evaluate the current status if  
14 there were to be a large-scale release.

15 The focus of that was on a release from  
16 Unit 2 reactor, and we're still working backdrops or  
17 research to look at what the source term would be from  
18 a spent fuel pool.

19 You may be aware that when we do our RASCL  
20 (phonetic) runs, RASCL is really set up for projecting  
21 inventory 48 hours -- within the first 48 hours after  
22 shutdown. Obviously, we are now approaching the  
23 beginning of a fourth week of response to this  
24 emergency.

25 So, those source terms that we would get

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1 out of RASCL today would no longer be representative  
2 of what might be there in the cores or the spent fuel  
3 pool, and that's why we're using a bit more  
4 sophisticated analysis to estimate what the source  
5 terms would be.

6 You may have heard about this before, but  
7 the emphasis is getting this information, doing  
8 initial runs.

9 The ambassador in Japan has expressed --  
10 U.S. ambassador in Japan has expressed interest in  
11 knowing what would the situation look like by about  
12 mid-April, particularly before a lot of U.S. citizens  
13 may be returning to Japan at the end of the spring  
14 break, so we're working on that.

15 In terms of our staffing here in the  
16 operations center, the Centers for Disease Control is  
17 adding a staff member to participate as part of the  
18 liaison team.

19 Naval Reactors has reduced its staffing,  
20 and so they will be participating here on the reactor  
21 safety team from 1400 to 2100.

22 And the DOE liaison rep on the liaison  
23 team has also stopped coming here to the ops center,  
24 and we were checking on -- okay. And we still have a  
25 DOE technical representative in the reactor safety

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1 team from -- during the day shift here in the  
2 operations center.

3 We got a head's-up call from Naval  
4 Reactors this morning. (b)(5)

5 (b)(5)  
6  
7  
8  
9  
10  
11

12 (b)(5) and we'll continue to do so, but so far we  
13 haven't linked up with him to understand the basis for  
14 his views.

15 We were trying to head this off, if there  
16 were any differences, before the principal's meeting  
17 this morning so that if we could deconflict something,  
18 we would do that in advance of the meeting later on.

19 The Department of State is working with us  
20 on whether the U.S. Embassy there in Vienna can serve  
21 a role in coordinating awareness among all the nations  
22 about the assistance request that we've been  
23 responding to, but we await feedback from the U.S.  
24 embassy on whether that's something that they're  
25 prepared to take on.

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1 This wouldn't interfere with the  
2 assistance that the U.S. is providing, but it would  
3 provide us better awareness of what other assistance  
4 is being provided internationally so that we could  
5 become learning (phonetic) to those activities.

6 And just to alert you, there was a press  
7 article that we saw yesterday in the Japanese press  
8 that brought up a 1981, 1982 vintage study where we  
9 had looked at -- according to the article -- a similar  
10 scenario to what has occurred at Fukushima Daiichi,  
11 only we looked at it from the perspective of the  
12 Browns Ferry Plant; if there were a protracted station  
13 blackout event, how would we expect the accident to  
14 progress.

15 So, Bryan has tasked his staff to go back  
16 and pull that information so that, if questions arise  
17 here in the U.S. or, indeed, in Japan, about that  
18 study, we'll be knowledgeable about that and be able  
19 to explain how that is or is not relevant to the  
20 current situation.

21 All right. And with that, let me go to  
22 the team directors. Allen, anything from RSE?

23 MALE PARTICIPANT: (Allen) You mentioned  
24 the assessment. We are working on the spent fuel  
25 pools, and actually we are thinking about

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1 incorporating that in with the assessment on the -- on  
2 the reactor so that we -- it will be combined as a  
3 single document when we are finished with it.

4 MICHAEL WEBER: Okay. Anything else?

5 MALE PARTICIPANT: (Allen) No.

6 MICHAEL WEBER: Okay. Randy.

7 MALE PARTICIPANT: (Randy) We understand  
8 that the NRR office director will be briefing the  
9 National Governors' Association next week.

10 We wanted to assist him to make sure his  
11 talk is copasetic with those other talks given by our  
12 executive management regarding how different things  
13 would be in an American response than what we're  
14 seeing here, and provide some interesting data that  
15 we're able to provide. That's it.

16 MICHAEL WEBER: Okay. Jeff.

17 MALE PARTICIPANT: (Jeff) The liaison  
18 team continues to coordinate daily concerning a  
19 meeting which are now occurring at 1800 this evening.  
20 Also we are supporting very -- various entries in the  
21 communications routine basis. That's all I have.

22 MICHAEL WEBER: All right. With that,  
23 this wraps up our briefing.

24 Questions from the participants?

25 MALE PARTICIPANT: When and where on that

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1       Governors' Association briefing?

2               MICHAEL WEBER:   Say again, please.

3               MALE PARTICIPANT:   When and where on the  
4       Governors' Association meeting?

5               MALE       PARTICIPANT:               I       think  
6       (indiscernible, possibly "Casmony") is asking when and  
7       where is the NGA briefing.

8               MALE PARTICIPANT:   Yes.   Sorry.   I didn't  
9       -- I didn't have that information.   I just have that  
10      it's next week and we needed help.   So some staff went  
11      off to lend a hand.

12              MALE PARTICIPANT:   Oh, okay.   Public  
13      affairs --

14              MALE PARTICIPANT:   But the impression is  
15      that it's here, in town.

16              MALE PARTICIPANT:   Yes.   I'm sorry.

17              MALE PARTICIPANT:   Because Eric is here.

18              MALE PARTICIPANT:   We asked that specific  
19      question and they didn't have an answer at the time.

20              ERIC LEEDS:   Hello, Eric.   This Eric  
21      Leeds.   I'm on the line.   The NGA meeting is on  
22      Monday, 1:30 to 4:30.   I've got a 15-minute  
23      presentation, and then 15-minute (inaudible), I  
24      expect.

25              MALE PARTICIPANT:   (Inaudible).

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1 MICHAEL WEBER: Yes. Thanks, Eric.

2 ERIC LEEDS: (Eric) Thanks. And the  
3 exact location is here in town.

4 MICHAEL WEBER: Other questions?

5 MIKE TRENERVICH: Mike, this is Mike  
6 Trenervich. Good morning.

7 MICHAEL WEBER: Good morning.

8 MIKE TRENERVICH: Yesterday when Bruce was  
9 on-shift, we discussed the status of the reactor  
10 management guidance, and I understand now from your  
11 status that it's been issued to various parties.

12 We did ask for a copy of that to be sent  
13 up so that we -- the TA's could see it.

14 MICHAEL WEBER: Okay. Did you get it?

15 MIKE TRENERVICH: No, I have not seen it.

16 MICHAEL WEBER: All right. We'll send it  
17 to you.

18 MIKE TRENERVICH: Okay. And then the  
19 other -- the companion document that's being worked on  
20 for the spent fuel pools, if there's any degradation  
21 in those pools, we'd like to see that, too. I would  
22 like to see it.

23 MALE PARTICIPANT: But we would like to  
24 see that, though.

25 MICHAEL WEBER: Well, we don't -- we don't

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1 have that written yet, and I think Allen clarified  
2 that our intent would be to, then, supplement, come  
3 out with a Rev 2 and 2 of our strategy document that  
4 would add in the additional -- the (indiscernible,  
5 possibly "uptensity") with respect to the spent fuel  
6 pool coolant.

7 MIKE TRENERVICH: Sure. So when Rev 2  
8 gets done we'd like to also see that, too.

9 MICHAEL WEBER: Okay.

10 MIKE TRENERVICH: That would be helpful.

11 Yesterday there was discussion about --  
12 concern about energetic explosion. Actually, it's  
13 been from a couple of briefings we've heard about that  
14 as an issue for Unit 1, if you had an exvessel  
15 scenario. Is that still a concern for us if they  
16 flood containment?

17 MALE PARTICIPANT: I know that Research is  
18 still evaluating that. At this point we don't expect  
19 that there would be an energetic reaction, but I think  
20 there were some phenomena that Research was going to  
21 take a look at, and I think we're expecting the  
22 results from that sometime next week.

23 MALE PARTICIPANT: Okay.

24 MICHAEL WEBER: Is that your  
25 understanding, Allen?

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1 MALE PARTICIPANT: (Allen) Mike, just to  
2 add to that, as I understand it, it's one of the  
3 things where you're trying to weigh the -- you know,  
4 the different possible pathways, and the interest here  
5 is to get a condition where you have cooling of the --  
6 of the reactor vessel by doing a containment flood.

7 One of the considerations in the  
8 recommendation, which we'll send to you, is that there  
9 may need to be some venting necessary from the Unit 1  
10 primary containment, and there are recommendations to  
11 do a water spray over that -- that path.

12 In addition to that, right now, yes, based  
13 on, you know, the various analyses and things like  
14 that that we have, there is a possibility that there  
15 is already a -- a potential flammable mixture, if not  
16 a -- a more explosive mixture in the Unit 1  
17 containment at this time.

18 The -- one of the -- one of the conditions  
19 that exists right now is that there is seen in the  
20 primary containment, and that's -- that's aiding in  
21 reducing the -- if you will, the concentration but  
22 that, as time goes on, that steam is venting out and  
23 allowing that concentration, you know, relatively-  
24 speaking, to increase.

25 So, is it -- my sense, again, this is a --

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1 it really is a weighing of the various options and a  
2 balancing. And we'll -- we have an eleven o'clock  
3 call and we will be talking about that issue as well.

4 MALE PARTICIPANT: Okay. Thank you.

5 And then, the explanation we talked about,  
6 inerting the Unit 1 containment just sort as a  
7 countermeasure to any kind of flood-up interactions or  
8 condensing of steam.

9 We were told that by Thursday of this week  
10 they would be in position to go ahead and do that type  
11 of inerting. Do we have any more on that?

12 MALE PARTICIPANT: What we're being told  
13 is that there's a day-for-day or a two-for-one slip in  
14 that schedule.

15 We heard that this morning in our call  
16 with John Mononger (phonetic).

17 MALE PARTICIPANT: Right.

18 MALE PARTICIPANT: But we don't -- we  
19 don't know why but, apparently, because of the high  
20 rad field, they're having some difficulty in getting  
21 access to the parts of the plant that they would have  
22 to, to conduct that evolution.

23 MALE PARTICIPANT: Okay. Great. Thank  
24 you. And then yesterday there was some press coverage  
25 about the Department of Defense and Secretary Gates

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1 authorizing the sending of 140 Marines of a special  
2 unit --

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: -- that could handle  
5 chemical or radiological-type clean-up efforts, debris  
6 removal.

7 Do we have any picture about how those  
8 folks would be used? Are they -- will they be used?

9 MALE PARTICIPANT: They are being sent in  
10 the event that there were to be a large-scale release  
11 that would put U.S. military or citizens at risk.

12 This is a group that the CBRNE trained,  
13 and they go out and they do field screening for  
14 radiological and other types of contamination.

15 So, our understanding is that they're  
16 going to be deployed to Japan and they'll be on hot  
17 standby so that they can respond if need be.

18 They are -- it's a large group of Marines,  
19 and it's also a series of air shipments of equipment,  
20 so it's a pretty big commitment on behalf of the U.S.  
21 Government but, obviously, if you are -- if you would  
22 have a large-scale release, you would need those folks  
23 in a hurry.

24 MALE PARTICIPANT: Okay. But it sounds  
25 like outside the plant, if there's a large release.

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1 MALE PARTICIPANT: Yes. Definitely this  
2 is outside the plant there.

3 MALE PARTICIPANT: In terms of their role,  
4 not --

5 MALE PARTICIPANT: Yes. Our understanding  
6 is they are not going to go anywhere close to  
7 Fukushima Daiichi.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: They are really down  
10 there near Yokota, Nikuska (phonetic) and Tokyo.

11 MALE PARTICIPANT: Okay. Great. And then  
12 the last question I have to do with, yesterday, the  
13 Japanese Nuclear Safety Commission came out to defend  
14 its -- its recommended evacuation zone, and in sort of  
15 a rebuttal to the IAEA statements about the levels of  
16 activity detected, and where they would make their  
17 recommendations.

18 Randy, do you have any more insight about  
19 that in terms of the position the Nuclear Safety  
20 Commission made with looking at more of the direct  
21 effects on humans, rather than just simple  
22 measurements as they -- as they portrayed it?

23 MALE PARTICIPANT: (Randy) I do,  
24 actually. We looked at this yesterday in some detail,  
25 and came up a little frustrated. But I'll tell you

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1     what I know.

2             They reported in their news release or  
3     whatever it was IAEA put out, certain contamination  
4     levels on the ground. We kind of doubt that those  
5     levels are homogeneous but, treating those levels as  
6     homogeneous, it -- it's cesium and iodine  
7     contamination, you would exceed -- you would handle  
8     the exceed the one-year exposure relocation criteria,  
9     which is two rems.

10            Our dose calculation (indiscernible,  
11     possibly "RASCL") that it be five and a half rems in  
12     the first year. And it's cesium, so there would be  
13     big doses over many years. And so, yes, indeed,  
14     relocation from that area would be appropriate.

15            The IAEA bulletin seemed to indicate that  
16     immediate evacuation was appropriate. Our  
17     calculations didn't really show that, and I noted this  
18     morning in the Japanese release that they were more or  
19     less aligning with what we thought the situation was,  
20     was that, indeed, relocation might be appropriate but  
21     immediate evacuation is not.

22            Now, I have to tell you that we reached  
23     out to the IAEA IEC, their response center, and they  
24     would not -- they would not expand on their  
25     information. We were told twice that everything they

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1 had to say was in the press release and that's all  
2 they had to say.

3 MALE PARTICIPANT: Okay.

4 MALE PARTICIPANT: (Randy) So I -- I did  
5 -- you know, without understanding their analysis more  
6 deeply, I think, you know, we would align with what  
7 the Japanese are saying that, yes, indeed, something's  
8 going to have to be done in the coming weeks, but --  
9 but you won't immediately have to leave if it was  
10 important to be there.

11 MALE PARTICIPANT: Okay. That's very  
12 helpful. Thank you. That's it for me this morning.  
13 Thank you.

14 MICHAEL WEBER: Okay. Any other  
15 questions?

16 MIKE SMOCKER: Yes. Mike, this is Mike  
17 Smocker. I just have one question. I want to get  
18 back to the Unit 1 purging situation.

19 If you could -- I guess it's -- it sounds  
20 like the decision has been made that they are going to  
21 purge and --

22 MICHAEL WEBER: Yes, Mike, I don't know  
23 that that decision has been made. We're providing  
24 recommendations. They are making preparations, but we  
25 have yet to hear that they've decided that they are

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1 going to do that.

2 MIKE SMOCKER: One thing, maybe, for  
3 tomorrow's call, or assuming you have your eleven  
4 o'clock call, I would be interested to know what  
5 criteria they are going to use and how much nitrogen  
6 would they add because, I think what the containment,  
7 Unit 1 containment's at 20-some psig already.

8 So, how much would they add before they  
9 said, you know, enough's enough? We're concerned  
10 about (indiscernible, possibly "insensitive")  
11 containment, what pressure that would be.

12 Maybe that's something John can -- I'm  
13 sure he's probably asking that. But, if you could get  
14 that number (indiscernible, possibly "and get it to  
15 me").

16 MALE PARTICIPANT: Mike, I just want to  
17 clarify the question. The question that you have is  
18 to try to get a better definition of the strategy or  
19 the criteria for the nitrogen inerting process in the  
20 containment?

21 MIKE SMOCKER: Yes. So my understanding  
22 is the reactor management guidelines is that if you do  
23 a nitrogen purge you are going to be increasing -- can  
24 drywell containment pressure and at some point you  
25 would -- you would stop the purge because of your --

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1 you're creating a greater concern at the --  
2 (indiscernible, possibly "some pump") pressure.

3 I mean, obviously, they could probably go  
4 above design, or maybe its design, but what that  
5 number would be before they discontinue the purging,  
6 because that's -- that's the downside of the  
7 (indiscernible, possibly "con") of the purge.

8 MALE PARTICIPANT: Okay. Yes, I  
9 understand that. As I understood the strategy this  
10 morning, one of the -- one of the possible scenarios,  
11 and I don't know what the Japanese are contemplating  
12 specifically, but they -- a possible scenario would be  
13 that they would add nitrogen to the containment to a  
14 point -- and I don't know what that point is -- and  
15 then they would vent to relieve the pressure and then  
16 they would, again, add nitrogen until they got enough  
17 nitrogen in there that they were satisfied that the  
18 concentrations were below combustible levels.

19 MIKE SMOCKER: Yes, that's my  
20 understanding of the guideline, that you'd have that  
21 saw-toothed pattern.

22 MALE PARTICIPANT: You're right.

23 MIKE SMOCKER: You'd pressurize, vent,  
24 then pressurize and vent. I guess if we -- if we  
25 could get those numbers I think that would be very

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1 valuable. As an agency, I think that's something we  
2 can help them with, working with your other  
3 stakeholders that you use, and knowing that particular  
4 containment design to confirm, you know, what that  
5 saw-tooth pattern should be and how high up should you  
6 pressurize and then -- anyway, I think that that's  
7 something we could help out on and I think we should  
8 also have an understanding of maybe -- and confirm  
9 that you believe that that's the right number or  
10 criteria.

11 MALE PARTICIPANT: Okay. No promises,  
12 Mike. We can -- don't --

13 MIKE SMOCKER: Appreciate that. As I  
14 said, I'm sure that something that I wanted to ask and  
15 I think it's -- if we could get that number it would  
16 be good. If not, I understand.

17 MICHAEL WEBER: Yes. All right. Other  
18 questions.

19 ERIC LEEDS: Hey, Mike, this is Eric  
20 Leeds. You mentioned earlier that there was someone  
21 in the ops center who would coordinate with us for  
22 this presentation that I'm giving to the National  
23 Governors' Association.

24 You know, we plan on sending that  
25 presentation out to the regions to use as a -- as a

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1 template for their presentations at end-of-cycle  
2 meetings and all that.

3 Who is the point of contact in the ops  
4 center that we should be working with?

5 MALE PARTICIPANT: Actually, Trish  
6 Milligan is not at the ops center, but happened to  
7 make the mistake of wandering in, and took that on  
8 with Eric, who is coordinating that your TA.

9 So, Trish has some good work, and she was  
10 going to help you with that.

11 ERIC LEEDS: Okay. Very well. We'll find  
12 Trish, then.

13 MICHAEL WEBER: Thank you.

14 ELLIOT BRENNER: Hey, Eric and Mike, it's  
15 Elliot.

16 MICHAEL WEBER: Hi, Elliot.

17 ELLIOT BRENNER: I just finished reading a  
18 very useable and useful document that I -- in terms of  
19 a presentation that I think was used in Region III and  
20 has now made its way over to Region I, which would be  
21 great.

22 And so I'll just send it to Trish and to  
23 Eric.

24 MALE PARTICIPANT: Trish brought up that  
25 Bill Borcher (phonetic) gave a talk that we probably

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1 ought to align with. I'm sorry. I don't know when or  
2 where that was. All the information left the room.

3 ELLIOT BRENNER: Yes, I think he -- he  
4 talked up on the Hill.

5 MALE PARTICIPANT: Yes.

6 ELLIOT BRENNER: A couple of times.

7 Anyway, I'll just send this to the two of  
8 you. It's -- if you don't have anything, it would be  
9 great to have in your hip pocket.

10 MALE PARTICIPANT: Thank you, Elliot.

11 SCOTT MOORE: Mike and Eric, this is Scott  
12 Moore. For the commissioner's assistance I wanted to  
13 clarify something.

14 The talk to the National Governors'  
15 Association, it's to the energy advisors to the  
16 governors, not to the governors, themselves.

17 MICHAEL WEBER: That's a useful  
18 clarification. Thank you, Scott.

19 SCOTT MOORE: Sure.

20 ERIC LEEDS: I'm disappointed now. Thanks  
21 Scott.

22 SCOTT MOORE: Thanks, Eric.

23 MICHAEL WEBER: Okay. Anything else?

24 ANGELA McINTOSH: Yes. This is Angela  
25 McIntosh in FSME. Did I hear you say that the call

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1 will be tomorrow at eleven?

2 MICHAEL WEBER: Well, actually, I did not  
3 say that with respect to the commissioner assistance  
4 call. I was going to end this call by talking about  
5 what's the preference of the commissioner assistants.

6 Do you want to conduct the call tomorrow  
7 at ten o'clock? Is that a convenient time?

8 MALE PARTICIPANT: What are the options to  
9 do it earlier than ten? I mean, do you have other  
10 meetings arranged for standing meetings?

11 MICHAEL WEBER: Yes. We have meetings  
12 around the clock, so -- but I think we have -- I mean,  
13 if it would be better earlier, I think we can do it  
14 earlier. Bob's checking the calendar here.

15 MALE PARTICIPANT: We did 8:30 last  
16 weekend. That seemed to work. I mean, I don't know  
17 how the others feel about it.

18 MALE PARTICIPANT: I agree with that.  
19 I've got some errands and stuff I've got to get out  
20 and do.

21 MICHAEL WEBER: Any objection to doing it  
22 at 8:30?

23 MALE PARTICIPANT: This is Todd  
24 (indiscernible, possibly "Fanata"). I don't have a  
25 problem with any time you propose tomorrow.

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1           MICHAEL WEBER: Okay. And then how about  
2 on Sunday, do you want to do it the same time Sunday?

3           MALE PARTICIPANT: That works for me.

4           MALE PARTICIPANT: Works for me, too.

5           MALE PARTICIPANT: Yes. Works for me,  
6 too.

7           MICHAEL WEBER: All right. We'll plan on  
8 doing the next commissioner assistants' call Saturday  
9 morning at 8:30 a.m. and Sunday morning at 8:30 a.m.  
10 We look forward to hearing from you.

11          MALE PARTICIPANT: Yes.

12          MALE PARTICIPANT: Hey, Mike, I have a  
13 question here. One thing you brought up, it sounds  
14 like some of the other agencies are kind of winding  
15 down or standing down.

16               How are -- are you all developing some  
17 kind of criteria by which the ops center is going to  
18 start winding down?

19          MICHAEL WEBER: We have. We've come up  
20 with a couple of different options. The direction we  
21 got from the chairman is to continue to staff at more  
22 or less the levels we've been at, both here and in  
23 Japan, at least until mid-next week.

24               And that's to support the activities that  
25 are currently underway for our team that's providing

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1 these recommendations to the Japanese counterpart.  
2 But it's something that I know we will continue to  
3 revisit going forward.

4 MALE PARTICIPANT: Okay.

5 MICHAEL WEBER: I think there's a lot of  
6 people that would be happy to go back to their normal  
7 lives.

8 MALE PARTICIPANT: (Pat) You know, I was  
9 just thinking that, you know, kind of strikes me is  
10 that things are looking kind of stable now and really,  
11 you know, we would probably benefit as an agency from  
12 some sense of normalcy.

13 MICHAEL WEBER: I think we agree with  
14 that, Pat, except that I wouldn't necessarily  
15 characterize the situation as "stable" with respect to  
16 the plant.

17 MALE PARTICIPANT: I mean stable in terms  
18 of what -- pardon me, what the NRC needs to be doing.

19 MICHAEL WEBER: Right. But, given what we  
20 understand the condition of the plants, we're still  
21 remaining vigilant so that we can provide our best  
22 advice to our other government agencies as well as to  
23 support the team that's working with our Japanese  
24 counterparts.

25 And I think particularly through the next

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1 several days as they decide whether they are going to  
2 through some of these evolutions, I think it's  
3 important that we remain on top of the situation that  
4 takes people.

5 MALE PARTICIPANT: Yes. I'm not -- I'm  
6 not questioning any of that. I mean, I agree with  
7 you. We need to do that. I was just really kind of  
8 wondering, you know, any time you're in a casualty  
9 situation you get where things are not so dynamic,  
10 then you start looking for what your exit criteria are  
11 going to be, and that's what I was trying to get at,  
12 was just get a sense of what kind of exit criteria.

13 For right now, I guess you all are  
14 thinking about it, but really nothing is going to  
15 change in terms of staffing until at least the middle  
16 of next week. That's the message I got.

17 MICHAEL WEBER: That's my understanding.

18 MALE PARTICIPANT: Okay. Thanks much.

19 MICHAEL WEBER: All right. Okay. We  
20 appreciate your time and thanks for your support and  
21 we'll talk to you tomorrow morning, if not sooner,  
22 then, at 8:30, the next CA call.

23 MALE PARTICIPANT: All right. Have a good  
24 day.

25 MICHAEL WEBER: Thank you, too.

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(CONFERENCE CALL INITIATED)

MICHAEL WEBER: Mr. Shipper (phonetic).

MR. SHIPPER (phonetic): Yes. Hi. How are you doing?

MICHAEL WEBER: Good morning. Sorry to roust you. I hope you didn't bed down for the evening already. I understand you are in Japan.

MR. SHIPPER: Yes. I'm in Tokyo through tomorrow and, sadly for me, I hadn't yet hit the bed.

MICHAEL WEBER: Oh, wow. Well, this Michael Weber. I am the director of our executive team here at the Nuclear Regulatory Commission, and I understood that you had a series of meetings and formulated some views with respect to the urgency or lack thereof of the reactors at Fukushima Daiichi.

And I just want to have a talk to understand your perspective, because I think right now what (b)(5)

(b)(5)

MR. SHIPPER: Well, I guess I would put it very simply as I conveyed back to my leadership, not my views, but a conversation that I had (b)(5)

(b)(5)

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1 (b)(5)  
2  
3  
4  
5

6 MICHAEL WEBER: Okay.

7 MR. SHIPPER: And they provided it.

8 MICHAEL WEBER: Okay.

9 MR. SHIPPER: And that's what I conveyed  
10 back to my leadership.

11 MICHAEL WEBER: Did you see the  
12 coordinated recommendations that we provided to the  
13 Japanese government?

14 MR. SHIPPER: I have not seen the  
15 coordinator recommendations that had been provided to  
16 the Japanese government the day before --

17 MICHAEL WEBER: Okay. Because we've been  
18 --

19 MR. SHIPPER: -- if that's what you're  
20 talking about.

21 MICHAEL WEBER: Yes. We've been working  
22 with Naval Reactors and with the Department of Energy,  
23 with our own staff, with private industry so that we  
24 could speak with one voice and provide one coordinated  
25 set of recommendations.

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1           And our assessment is the situation  
2 remains troubling. They are -- they need to continue  
3 to take action to maintain cooling of those reactors,  
4 and I wouldn't characterize the situation as static or  
5 positive. I think it's still a very worrisome  
6 condition.

7           MR. SHIPPER: Once again, I will repeat.  
8 I reported back the conversation that I had with your  
9 folks at the embassy. The word "static" -- the word  
10 "static" was not my word.

11           MICHAEL WEBER: Okay. Well --

12           MR. SHIPPER: And I don't think there was  
13 anything -- and I don't think there was anything in  
14 what I reported back that suggested they needed to  
15 stop cooling the reactors, to be an asinine misreading  
16 of the email that I sent, to say the least.

17           And if you have any problems with any of  
18 the things I reported back there, talk to your folks  
19 at the embassy.

20           MICHAEL WEBER: Well, we have already this  
21 morning.

22           MR. SHIPPER: I took -- I took quite good  
23 notes. I checked it with the other person that was in  
24 the meeting to make sure that I was reporting  
25 accurately.

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1 MICHAEL WEBER: Do you recall who you  
2 spoke with there?

3 MR. SHIPPER: Yes. We spoke with John  
4 Monanger (phonetic), Elmo Collins, Charles Castro and  
5 then Daniel Dorman (phonetic).

6 MICHAEL WEBER: Okay. Well, they're the  
7 group.

8 MR. SHIPPER: Yes, they are.

9 MICHAEL WEBER: It's an interesting  
10 characterization because we spoke to at least John  
11 about an hour and a half ago and (b)(5)

12 (b)(5)

13 MR. SHIPPER: (b)(5)

14 (b)(5)

15 MICHAEL WEBER: (b)(5)

16 (b)(5)

17

18

19 MR. SHIPPER: (b)(5)

20 (b)(5)

21

22

23 MICHAEL WEBER: I don't have your email in  
24 front of me.

25 MR. SHIPPER: I have it.

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1 MALE PARTICIPANT: We talked to Mike  
2 Scott.

3 MICHAEL WEBER: Yes. Well, I don't want  
4 to bring that in there.

5 MR. SHIPPER: And, in fact, it -- you  
6 know, there's one bullet point in the email, if I  
7 recall, and I don't have it in front of me because the  
8 only thing I have is my Blackberry, and that's what  
9 I'm using right now, (b)(5)

10 (b)(5)

11  
12 MICHAEL WEBER: Yes. Well, I haven't  
13 heard that back from our team, but that would be an  
14 interesting development. Well, I think --

15 MR. SHIPPER: (Inaudible).

16 MICHAEL WEBER: Go ahead.

17 MR. SHIPPER: (b)(5)

18 (b)(5)

19 MICHAEL WEBER: Yes. I understood what  
20 you said, and then I said that would be interesting  
21 because we haven't heard that back from our team. All  
22 right.

23 MR. SHIPPER: Okay. No.

24 MICHAEL WEBER: You've given me the  
25 information I need. Sounds like you talked to the

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1 right people.

2 What I can do is send you that coordinated  
3 set of recommendations which they've been conveying to  
4 their counterparts there in Japan. So, at least  
5 you'll have what -- what we've coordinated among the  
6 other agencies working on the nuclear response.

7 MR. SHIPPER: That's fine. I'm not sure  
8 that changes any of the things that they said when we  
9 talked to them today, but it's terrific to have.

10 MICHAEL WEBER: Yes. I just want to make  
11 sure you have what we have.

12 MR. SHIPPER: Great.

13 MICHAEL WEBER: Okay. I thank you for  
14 your time.

15 MR. SHIPPER: Okay.

16 MICHAEL WEBER: Bye-bye.

17  
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1 (CONFERENCE CALL INITIATED)

2 MICHAEL WEBER: Hey, Eric.

3 ERIC LEEDS: Hi. This is Eric Leeds.

4 MICHAEL WEBER: Hi, Eric.

5 ERIC LEEDS: Hi. I'm going to get the  
6 watch tomorrow from seven to three, and I haven't  
7 spent, you know, more than an hour in the  
8 (indiscernible, possibly "shop") down there.

9 MICHAEL WEBER: Uh-oh.

10 ERIC LEEDS: It's a daily event. I wanted  
11 to come down and pick your brain. What would be a  
12 good time to sit down and get some background from  
13 you?

14 MICHAEL WEBER: About one o'clock.

15 ERIC LEEDS: One o'clock? Thank you very  
16 much. I'll be down to see you at one.

17 MICHAEL WEBER: Okay.

18 ERIC LEEDS: Thanks so much, Mike.

19 MICHAEL WEBER: Thank you.

20 ERIC LEEDS: Right. Bye.

21 MICHAEL WEBER: Bye-bye.

22  
23  
24  
25  
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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Hey guys.

MALE PARTICIPANT: Hey, Cindy.

FEMALE PARTICIPANT: This is  
(indiscernible, possibly "Cindy.") How are you doing?

MALE PARTICIPANT: Pretty good. How are  
things back there?

FEMALE PARTICIPANT: Good.

MALE PARTICIPANT: Supposed to snow  
tonight.

MALE PARTICIPANT: Yes. Hey, we just  
wanted to give you a buzz and let you know the  
wonderful product that the reactor safety team and the  
consortium has been working on, on flooding.

We received the version earlier today, and  
a copy of that has been requested, I guess, by the  
White House Situation Room, so it's being transmitted  
out there, we believe, by the embassy, to them.

So, you know, we just wanted to let you  
guys know just in case it becomes the subject of any  
deputies' meeting tomorrow morning.

MALE PARTICIPANT: That's a key  
development. Thank you for sharing that with me.

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: That's a Rev 1

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1 document, right?

2 MALE PARTICIPANT: It should be the latest  
3 and greatest that you guys shipped out to us this  
4 morning.

5 MALE PARTICIPANT: There's no date on the  
6 darned thing. It just says "Rev 1."

7 FEMALE PARTICIPANT: (Inaudible).

8 MALE PARTICIPANT: Oh, no. There is a  
9 date. It says 1200 hours, 3/31.

10 FEMALE PARTICIPANT: (Inaudible).

11 MALE PARTICIPANT: Yes. Yes.

12 FEMALE PARTICIPANT: Okay. Good. Thank  
13 you, guys.

14 MALE PARTICIPANT: All right. How's  
15 everything else going out there?

16 FEMALE PARTICIPANT: Good.

17 MALE PARTICIPANT: Good.

18 FEMALE PARTICIPANT: (indiscernible,  
19 possibly "Everyone") is putting together -- I guess  
20 there's a (indiscernible, possibly "defense meeting")  
21 tomorrow.

22 MALE PARTICIPANT: Okay.

23 FEMALE PARTICIPANT: And the chairman has  
24 asked for (indiscernible, possibly "blocking phones")  
25 and we're putting that together right now.

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1 MALE PARTICIPANT: Right.

2 FEMALE PARTICIPANT: And that includes  
3 initiatives come up with containers, shipping  
4 containers now coming into the United States that  
5 might have trace amounts of contamination on them.

6 MALE PARTICIPANT: Yes.

7 FEMALE PARTICIPANT: And let me get the  
8 rest of that. And there is a question, though, that  
9 the researchers are asking, and the question they are  
10 asking is (indiscernible, possibly "are you aware") of  
11 the water level in Unit 4's spent fuel pool.

12 MALE PARTICIPANT: Oh. They asked what is  
13 the level, or can we measure it?

14 FEMALE PARTICIPANT: No. What is the  
15 level? Do we know?

16 MALE PARTICIPANT: No, we don't know the  
17 level, and that's been an issue the past, you know,  
18 two, three weeks for both Unit 3 and 4. They've tried  
19 to use, you know, high-resolution cameras.

20 They've tried to use some of the  
21 indications from the overflow from the spent fuel  
22 pool or rear wall (phonetic), but that was one of the  
23 topics our reactor safety guys.

24 They were going to engage with TEPCO and  
25 NISA (phonetic) this morning and they haven't gotten

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1 back yet, but once they get back, we'll -- you know,  
2 we'll feed the latest and greatest back to you.

3 MALE PARTICIPANT: (Inaudible).

4 FEMALE PARTICIPANT: Okay. And I think  
5 that -- do either of you have anything for John? Ed,  
6 you mentioned (inaudible).

7 MALE PARTICIPANT: I don't.

8 FEMALE PARTICIPANT: Mike Casey (phonetic)  
9 and Chris Lou (phonetic).

10 MALE PARTICIPANT: I have all the  
11 directors in here right now, John.

12 MALE PARTICIPANT: Awesome. Awesome.

13 MALE PARTICIPANT: Hi, John. Nothing --  
14 nothing especially special for you. You know, just  
15 from an RFP perspective, the next assessment that  
16 we're trying to work on is one for the spent fuel  
17 pool.

18 MALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: That will take us a  
20 while, though.

21 MALE PARTICIPANT: Yes. You know, well,  
22 Randy Gant and Jeff Lashant (phonetic), they -- they  
23 arrived out here from -- Sandy arrived yesterday.

24 They are on-site today within the embassy,  
25 and we've been chatting with them about some, you

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1 know, potential analysis, some scenarios, et cetera,  
2 more focused on, I guess, Unit 1 and the merits of  
3 flooding up first is what would potentially happen if  
4 they didn't, so they're sort of brain-storming now in  
5 that area.

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: Hey, actually, a  
8 separate thing. Back there, do you know if there's  
9 been any discussion or if there's a draft plan, a  
10 straw man out there for the future of the team here,  
11 not in terms of staffing, but in terms of  
12 transitioning from an expanded team to a more reduced  
13 team or --

14 MALE PARTICIPANT: Well, we're opening an  
15 NRC Region V, and we're thinking of setting it up in  
16 Tokyo.

17 MALE PARTICIPANT: That's right. That's  
18 right. We'll have to bring back all the Zimmerman's,  
19 right?

20 MALE PARTICIPANT: Right. Actually, I'm  
21 not aware of any of that, John. There has been some  
22 discussion at DDO level with the chairman and --

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: -- you know, the entire  
25 sort of response posture that we're in.

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1 MALE PARTICIPANT: Right. Right.

2 MALE PARTICIPANT: And the last I heard on  
3 that was we'll probably be, at least here at  
4 headquarters, in this same configuration that we're in  
5 now for at least another week.

6 MALE PARTICIPANT: Right. Right.

7 MALE PARTICIPANT: But I didn't hear  
8 anything about the site team.

9 MALE PARTICIPANT: Okay. So --

10 FEMALE PARTICIPANT: And I haven't heard  
11 anything, either, about that.

12 MALE PARTICIPANT: I can certainly ask.

13 MALE PARTICIPANT: Yes. Well, what I was  
14 -- one of the things I was going to try to work on  
15 today is to develop a straw man for -- for discussion  
16 on what the team could potentially evolve to and why  
17 would it evolve to that particular state.

18 FEMALE PARTICIPANT: Okay.

19 MALE PARTICIPANT: But I didn't want to  
20 rework any work that others had done.

21 MALE PARTICIPANT: Well, there's clearly  
22 two elements to it. One is the technical nature,  
23 what's going, and the other is the --

24 MALE PARTICIPANT: Right.

25 MALE PARTICIPANT: -- political.

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1 MALE PARTICIPANT: Right.

2 MALE PARTICIPANT: And that's something  
3 that you probably have a better handle on than we do  
4 here, so --

5 MALE PARTICIPANT: Right. Right. Yes.

6 MALE PARTICIPANT: But I don't know, one  
7 of the --

8 FEMALE PARTICIPANT: We're going to  
9 (indiscernible, possibly "receiving") any insights  
10 that you have on that.

11 MALE PARTICIPANT: Yes. Yes. Definitely.  
12 So we'll put something together and we'll share it  
13 with you guys and --

14 FEMALE PARTICIPANT: All right. Thank  
15 you.

16 MALE PARTICIPANT: -- hopefully it will  
17 lead to some good discussions.

18 MALE PARTICIPANT: Okay. Cool.

19 MALE PARTICIPANT: All right. Well, that  
20 was it from back here.

21 FEMALE PARTICIPANT: All right. And I  
22 think I -- (inaudible) have anything from here. I  
23 think that's about it from here. Okay. Nice to hear  
24 from you, too, John. Thank you.

25 MALE PARTICIPANT: All right.

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1 (Inaudible). Bye-bye.

2 FEMALE PARTICIPANT: Yes. Have a good  
3 day. Bye.

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1 (CONFERENCE CALL INITIATED)

2 FEMALE PARTICIPANT: (Peggie) Hey, John.

3 Okay.

4 MALE PARTICIPANT: He's calling all the  
5 way from Japan.

6 MALE PARTICIPANT: Hey, John, are you  
7 there?

8 MALE PARTICIPANT: (John) Yes. I'm  
9 there. Is that Scott?

10 FEMALE PARTICIPANT: Hey, John. Peggie  
11 and Mike Weber is here.

12 MALE PARTICIPANT: Hey, how are you guys  
13 doing?

14 MALE PARTICIPANT: Good evening, John.

15 MALE PARTICIPANT: Good. That's where --  
16 we're actually getting ready to go out to dinner very  
17 shortly.

18 MICHAEL WEBER: Awesome.

19 MALE PARTICIPANT: Hey, and I just -- and  
20 I know I talked to Scott and Cindy earlier. We were  
21 just calling in as a gentle reminder with regard to  
22 that reactor safety team memo on flooding up and the  
23 notion that it was -- you know, provided probably  
24 eight or so hours to go the White House Situation Room  
25 and, you know, if you guys chat with the Chairman,

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1 just to let him know.

2 MICHAEL WEBER: Yes, we'll tell him.

3 MALE PARTICIPANT: Yes, in case it comes  
4 up in the deputy's meeting.

5 MICHAEL WEBER: Hey, John.

6 MALE PARTICIPANT: Yes.

7 MICHAEL WEBER: You all had a discussion  
8 about the new view for what the site team would look  
9 like? I think Michelle's been working that with  
10 Chuck.

11 MALE PARTICIPANT: Yes.

12 MICHAEL WEBER: So we have a revised view  
13 of what that would be, but my understanding per Bill  
14 Orchard (phonetic) from the Chairman is that he  
15 doesn't want to make changes at this point because he  
16 is content with the way things are.

17 MALE PARTICIPANT: Right. Right. And we  
18 know you guys are sending out, this Saturday-ish, four  
19 more people.

20 MICHAEL WEBER: Right.

21 MALE PARTICIPANT: I don't think right now  
22 we're really changing the team. The two structural  
23 guys said -- basically said, you know, their work is  
24 pretty much done here.

25 MICHAEL WEBER: Right.

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1 MALE PARTICIPANT: And Ralph Way  
2 (phonetic), so they were coming back --

3 MICHAEL WEBER: Yes.

4 MALE PARTICIPANT: -- because there's  
5 really not that much for them to be doing. The rest  
6 of the team is staying intact. The four new people  
7 are coming, and there will be some overlap with them.

8 Our gut is to keep Maria Miller and Todd  
9 Jackson for longer. The people you guys are sending  
10 out, they weren't really, you know, the PMT types, and  
11 actually Todd and Maria, they are pretty -- pretty  
12 phenomenal from Region I.

13 MICHAEL WEBER: Yes. Marie.

14 MALE PARTICIPANT: Yes.

15 MICHAEL WEBER: Yes.

16 MALE PARTICIPANT: So that's what our --  
17 our thought was. But a thing I was doing separately  
18 and -- was just trying to come up with a straw man  
19 document -- not to say we would change the team  
20 composition today or tomorrow, but what would be some  
21 indicators that would lead us to a decision that it is  
22 now appropriate to do something different.

23 MICHAEL WEBER: I think that's fine. You  
24 know, we are going to defer to your judgment there in  
25 Japan because you know what the pace is and what your

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1 needs are.

2 MALE PARTICIPANT: Right. Right. So we  
3 were going to, you know, based on the status of, you  
4 know, the reactors, the spent fuel pools, the  
5 potential for additional releases, the work going on,  
6 the political dynamics, all that kind of stuff we were  
7 going to try to pull that together in some type of  
8 document to float out to --

9 MICHAEL WEBER: Okay.

10 MALE PARTICIPANT: -- have everyone engage  
11 on.

12 MICHAEL WEBER: Have you seen our longer-  
13 term staffing plan?

14 MALE PARTICIPANT: Chuck probably did. I  
15 saw one or two emails from Michelle, but I think they  
16 were more immediate relief-type things, as opposed to  
17 --

18 MICHAEL WEBER: Yes. We provided the  
19 Chairman, early this week, an analysis which gave him  
20 several different options for both the site team and  
21 for ops center staffing.

22 MALE PARTICIPANT: Right. Okay.

23 MICHAEL WEBER: So I think we have a  
24 pretty fully-cooked --

25 MALE PARTICIPANT: Proposal?

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1 MICHAEL WEBER: Yes.

2 MALE PARTICIPANT: Okay.

3 MICHAEL WEBER: But we're always open for  
4 your input from Japan.

5 MALE PARTICIPANT: Right. Right. Now,  
6 would the -- the plan that was sent forth, would it  
7 just be assuming pretty continuous state over here or  
8 would it --

9 MICHAEL WEBER: That's one option.

10 MALE PARTICIPANT: Right. Right. Yes.

11 MICHAEL WEBER: And we gave the Chairman,  
12 I think, three options for site team staffing, near-  
13 term, and then we had longer-term options.

14 MALE PARTICIPANT: Okay. Okay.

15 MICHAEL WEBER: I don't have it in front  
16 of me right now but I know we coordinated that with  
17 Chuck.

18 MALE PARTICIPANT: Yes. I'll get it from  
19 Chuck and look through it.

20 MICHAEL WEBER: Okay. Is Elmo there?

21 MALE PARTICIPANT: Yes, he is.

22 MICHAEL WEBER: So he's rested and ready  
23 to go?

24 MALE PARTICIPANT: He's two days into it,  
25 I guess, forming his judgments as to, you know, what

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1 we're doing and areas we could improve and areas we  
2 could, you know, change our focus. But, yes, he's an  
3 integral part of the team.

4 MICHAEL WEBER: Great.

5 MALE PARTICIPANT: Very, very heavily  
6 involved in meetings the first couple of days.

7 MICHAEL WEBER: Okay.

8 MALE PARTICIPANT: Establishing the  
9 contacts.

10 MICHAEL WEBER: Good.

11 MALE PARTICIPANT: Yes.

12 MICHAEL WEBER: We had a kind of an  
13 informal debrief yesterday in the EDO's office by Jim  
14 Trapp and Tony Olsen.

15 MALE PARTICIPANT: Yes. Yes.

16 MICHAEL WEBER: But they were confident  
17 that the cores are out of the reactor.

18 MALE PARTICIPANT: Right. They were  
19 confident that they were?

20 MICHAEL WEBER: Yes, that they melted  
21 through.

22 MALE PARTICIPANT: Yes.

23 MICHAEL WEBER: And I -- is that the  
24 collective sense of the team over there?

25 MALE PARTICIPANT: I -- I believe -- which

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1 means I could be incorrect. I mean the collective  
2 sense is there's a good chance 2 and 3 went exvessel,  
3 but that 1 is still in-vessel. You still have  
4 pressure hanging up and --

5 MICHAEL WEBER: Yes.

6 MALE PARTICIPANT: -- various temperature  
7 measurements, that kind of stuff, but we actually --  
8 today, the two guys from Sandia (phonetic), Randy and  
9 all, they've -- they've been working with our team and  
10 they've been looking through the plots and the graphs  
11 and all the data tables, and they're actually bringing  
12 some very good insights and, you know, they've been in  
13 the room here for the past two hours and we're going  
14 back and forth in some pretty -- pretty good, healthy  
15 discussions on the topic.

16 MICHAEL WEBER: Good. Have they got the  
17 pump fixed in Unit 2?

18 MALE PARTICIPANT: (No audible response.)

19 MICHAEL WEBER: Not what I understood  
20 yesterday.

21 MALE PARTICIPANT: Yes. So --

22 MICHAEL WEBER: What was the answer to  
23 that, John?

24 MALE PARTICIPANT: Which -- which pump for  
25 Unit 2?

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1 MICHAEL WEBER: To inject into the core.

2 MALE PARTICIPANT: To tell you the truth,  
3 I wasn't up to speed on that --

4 MICHAEL WEBER: All right.

5 MALE PARTICIPANT: -- on or not. On or  
6 not.

7 MICHAEL WEBER: All right.

8 MALE PARTICIPANT: Yes.

9 MICHAEL WEBER: But at the end of the day  
10 yesterday, over here, the view was that --

11 MALE PARTICIPANT: It had --

12 MICHAEL WEBER: -- it had crapped out and  
13 the fire hoses failed, so they were -- they were not  
14 pumping into the Unit 23 core and had that fuel thing.

15 MALE PARTICIPANT: Yes. I overheard them  
16 mentioning some IAEA report or data out there that  
17 said that, and we didn't have, I guess, indications of  
18 that, so they called back to -- I guess -- it's my  
19 understanding we called back to IAEA and they  
20 basically said they are no longer reporting that.

21 They didn't say they were withdrawing --

22 MICHAEL WEBER: Okay.

23 MALE PARTICIPANT: -- you know, that  
24 previous statement, but they just said they were no  
25 longer reporting that.

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1 MICHAEL WEBER: Understood. I think I got  
2 the answer I needed. Thank you.

3 MALE PARTICIPANT: Yes. Yes.

4 MICHAEL WEBER: Okay.

5 MALE PARTICIPANT: But, you know, one of  
6 the things that Randy and Jeff were going to do, they  
7 were going to look at, you know, as opposed to, you  
8 know, just flooding, you know, what are the long-term  
9 implications of -- of feed and bleed.

10 You know, will it stay that way  
11 indefinitely. You know, is there the potential that  
12 the core will just continue to slowly, slowly degrade  
13 in there such that ultimately you would have a melt-  
14 through or -- or something else negative would happen  
15 on Unit 1.

16 MICHAEL WEBER: Yes. We are in uncharted  
17 territory on that one.

18 MALE PARTICIPANT: Yes. Yes.

19 MALE PARTICIPANT: But it's a follow-up  
20 that needed to status (phonetic).

21 MICHAEL WEBER: Yes.

22 MALE PARTICIPANT: There's a big note with  
23 three -- three -- core-cooling information provided in  
24 the 1800 update on March 31st --

25 MICHAEL WEBER: A-hah. That's the piece I

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1 needed.

2 MALE PARTICIPANT: Yes. So it said it's  
3 back --

4 MALE PARTICIPANT: (Inaudible).

5 MICHAEL WEBER: Have they started doing  
6 anything on the inerting or venting of --

7 MALE PARTICIPANT: Of -- they were going  
8 to focus on Unit 1 first.

9 MICHAEL WEBER: Right.

10 MALE PARTICIPANT: And the update we got  
11 today was at least a day-for-day extension, if not  
12 two-for-one extension. The big thing is the radiation  
13 fields around that equipment are -- are -- exceed --  
14 radiation levels are exceeding high.

15 So I think they were saying the earliest  
16 is April 5th or so.

17 MICHAEL WEBER: April 5th now. Okay.

18 MALE PARTICIPANT: Yes. Yes, which is  
19 still several days away.

20 MICHAEL WEBER: And, John, you know, the  
21 consensus analysis that we sent over there, have you  
22 discussed that now, or has the team discussed that  
23 with your Japanese counterparts? Is that something  
24 that's going on?

25 MALE PARTICIPANT: When you say "the

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1 consensus analysis," that's the RSP recommendations  
2 with the consortium?

3 MICHAEL WEBER: Yes. RAD 1.

4 MALE PARTICIPANT: Yes. They -- they have  
5 continuously assessed it with, you know, the  
6 counterparts over here and, you know, they are trying  
7 to, I guess, balance the merits of doing this and  
8 inerting versus, you know, something happening with  
9 hydrogen versus, you know, needs for additional  
10 evacuations source terms, so there's a lot of  
11 different things that they are trying to -- to balance  
12 out or trying to consider in any -- in any decision.

13 MICHAEL WEBER: Okay.

14 MALE PARTICIPANT: Yes. Yes, so -- so,  
15 yes. They definitely have had our document. They --  
16 we've had definite discussions with them on it, but  
17 whether they are really closer to considering venting  
18 or not is very unclear.

19 MICHAEL WEBER: Have you actually given  
20 them RAD 1?

21 MALE PARTICIPANT: Yes. The team gave  
22 them Rad 1 today.

23 MICHAEL WEBER: Good.

24 MALE PARTICIPANT: We got the final  
25 version prior to eleven and they had the meeting with

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1       them at eleven.

2               MICHAEL WEBER:   Good.

3               MALE PARTICIPANT:   So they took it to the  
4       eleven o'clock meeting over here.

5               MICHAEL WEBER:   Very good.   Anything else  
6       we can do for you?

7               MALE PARTICIPANT:   No, I think that's it.  
8       We just wanted to give you guys a head's up and make  
9       sure -- you know, let you know everything's going  
10      well.

11              MICHAEL WEBER:   All right.   Well, give our  
12      regards to the team there.

13              MALE PARTICIPANT:   All right.

14              FEMALE PARTICIPANT:   Yes.    Thank you,  
15      John.

16              MALE PARTICIPANT:   Thank you, guys.   Have  
17      a great day.

18              MICHAEL WEBER:   Doing okay?

19              MALE PARTICIPANT:   Yes.

20              MICHAEL WEBER:   (Inaudible).

21              MALE PARTICIPANT:   All right.

22              FEMALE PARTICIPANT:   Let us know if  
23      there's something more that we can do.

24              MALE PARTICIPANT:   Will do.   Will do.   And  
25      thank you guys very much for the support.   It's much

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1 appreciated.

2 FEMALE PARTICIPANT: Thanks, John.

3 MICHAEL WEBER: Thank you, John.

4 MALE PARTICIPANT: All right. Adios.

5 FEMALE PARTICIPANT: Have a good evening

6 MALE PARTICIPANT: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MICHAEL WEBER: Tom, are you there? Tom,  
3 are you there?

4 MALE PARTICIPANT: (Tom) Yes.

5 MICHAEL WEBER: Hi. This is Mike Weber.  
6 How can I help you?

7 MALE PARTICIPANT: Hi, Mike.

8 MICHAEL WEBER: Hi.

9 MALE PARTICIPANT: I've got an email from  
10 Deputy Assistant Secretary of Defense Shipper that is  
11 painting a picture of all's well and static at the  
12 plant, so it seems 180 degrees out from what your RST  
13 technical assessment team just sent out in their  
14 document expressing urgency to take action.

15 So, somehow he's walked away from that --  
16 apparently he's either over there or was just over  
17 there and has taken away a pretty rosy view of where  
18 things stand.

19 MICHAEL WEBER: Wow.

20 MALE PARTICIPANT: I'd like to try to  
21 forward this to you and get you to look at it and  
22 react to it and get some kind of a correction out  
23 there.

24 MICHAEL WEBER: Okay.

25 MALE PARTICIPANT: All right?

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1 MICHAEL WEBER: All right.

2 MALE PARTICIPANT: What email address  
3 should I send it to?

4 MICHAEL WEBER: ET-07.

5 MALE PARTICIPANT: Okay. ET-07. Got it.

6 MICHAEL WEBER: dot, .hoc@nrc.gov.

7 MALE PARTICIPANT: All right. I'll try to  
8 get that off to you in a minute.

9 MICHAEL WEBER: Do you know how he came to  
10 that conclusion? You said he was just in-country?

11 MALE PARTICIPANT: He said -- it came out  
12 at 0400 this morning, at least that's what it looks  
13 like based on the email.

14 He was in-country. He says he met with  
15 the team in the embassy, met with the NRC team. The  
16 NRC -- (b)(5)

17 (b)(5) They may be right. So, it's based  
18 on his personal interactions there on-site in Japan.

19 MICHAEL WEBER: Yes. Well, I can see how  
20 that would happen, but -- okay.

21 MALE PARTICIPANT: Okay. All right.

22 MICHAEL WEBER: Thank you.

23 MALE PARTICIPANT: I'll try to get it to  
24 you in a minute or two.

25 MICHAEL WEBER: Okay. If -- how do you

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1 want to proceed once we get it? Just reply back to  
2 you?

3 MALE PARTICIPANT: No. I'd like you guys  
4 to take -- figure out if he's still over there and try  
5 to get the perception corrected.

6 MICHAEL WEBER: Yes, we just talked to  
7 John Mononger this morning and it's not -- I would not  
8 characterize it as "all is well and static."

9 MALE PARTICIPANT: All right. So, you  
10 know, you'll need to see the words. I got it on my  
11 phone right now, so I can't -- I'd read it to you, but  
12 I'm going to try to send it to you.

13 MICHAEL WEBER: Okay.

14 MALE PARTICIPANT: All right.

15 MICHAEL WEBER: Thanks, Tom.

16 MALE PARTICIPANT: Bye.

17 MICHAEL WEBER: Bye-bye.

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1 (CONFERENCE CALL INITIATED)

2 MICHAEL WEBER: Tom, are you there?

3 MALE PARTICIPANT: (Tom) Yes, I am

4 MICHAEL WEBER: I was just reading this  
5 email as the -- as we speak. So, he sent us around to  
6 his counterpart?

7 MALE PARTICIPANT: Yes. I didn't pay  
8 close attention. I think -- I think he's communicated  
9 that to some pretty high-level people. So it was  
10 reported to me, but I didn't pay close attention to  
11 the addressees.

12 MICHAEL WEBER: Yes. It looks like he  
13 went to SEC staff and others.

14 It's kind of -- I'm taking this as a mixed  
15 message. You know, it's not getting worse. They're  
16 not out of the woods yet.

17 MALE PARTICIPANT: Well, sure. At that  
18 level, fine, but it's -- it's a pretty -- the idea  
19 that it's static, that -- it paints a picture that  
20 it's satisfactory to just drift along the way they  
21 are, and there's no potential for any further big  
22 event --

23 MICHAEL WEBER: Right.

24 MALE PARTICIPANT: -- when the actions  
25 behind your RSP paper were driven by a sense of

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1 urgency, that they're building combustible  
2 concentrations of gases in the containment and actions  
3 should be taken that the -- we don't think that  
4 sitting there at the low, minimum flow rate is the  
5 right place to be, considering the potential for melt-  
6 through of the reactor vessel.

7 So it --

8 MICHAEL WEBER: Yes. Yes.

9 MALE PARTICIPANT: It just does not have  
10 the right tone.

11 MICHAEL WEBER: Yes. I agree. You know,  
12 there's a principal's meeting this morning.

13 MALE PARTICIPANT: Right.  
14 And this is probably a tee-up for that.

15 MICHAEL WEBER: Yes.

16 MALE PARTICIPANT: And so he's setting up  
17 the Secretary of Defense to say "All is well."

18 MICHAEL WEBER: And we're setting up the  
19 Chairman to say "All is not well. They need to take  
20 action."

21 MALE PARTICIPANT: All right.

22 MICHAEL WEBER: I've got a briefing for  
23 him coming up in an hour or so.

24 MALE PARTICIPANT: All right. Well, I  
25 think it's important to get that message. And if

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1 there's a way to get that feedback back to Sharer  
2 (phonetic) --

3 MICHAEL WEBER: Shipper?

4 MALE PARTICIPANT: Shipper.

5 MICHAEL WEBER: Yes.

6 MALE PARTICIPANT: I think that would be  
7 good.

8 MICHAEL WEBER: Okay. We'll work it.

9 MALE PARTICIPANT: All right. Thanks.

10 MICHAEL WEBER: Thanks for bringing it to  
11 our attention, Tom.

12 MALE PARTICIPANT: Sure. Bye.

13 MICHAEL WEBER: Bye-bye.

14 Yes. This is the email. Do you have it?

15 MALE PARTICIPANT: She gave me a copy.

16 MICHAEL WEBER: Okay. Who is RC director?

17 MALE PARTICIPANT: Al -- Allen Powell  
18 (phonetic) coming on.

19 MICHAEL WEBER: Allen Powell?

20 MALE PARTICIPANT: Right.

21 MICHAEL WEBER: Boy.

22 MALE PARTICIPANT: Right. He moves  
23 around.

24 MICHAEL WEBER: (Inaudible), so the RSP  
25 the next day?

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1 MALE PARTICIPANT: He's flexible.

2 MICHAEL WEBER: Is he?

3 MALE PARTICIPANT: He's fungible.

4 MICHAEL WEBER: The computer here is  
5 (inaudible).

6 MALE PARTICIPANT: Yes. They sent us a  
7 copy --

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1 (CONFERENCE CALL INITIATED)

2 MICHAEL WEBER: Hi, Katina.

3 FEMALE PARTICIPANT: Hi.

4 MICHAEL WEBER: How are you?

5 FEMALE PARTICIPANT: I'm good. Mike, I  
6 spoke with Josh, and if you could supply those points  
7 to our office, we're going to have someone take some  
8 items down to the Chairman a little later on this  
9 morning.

10 MICHAEL WEBER: Okay.

11 FEMALE PARTICIPANT: More than likely,  
12 it's going to be Wayne Rutts (phonetic).

13 MICHAEL WEBER: Okay.

14 FEMALE PARTICIPANT: Or someone from Baron  
15 Stapleton's (phonetic) staff.

16 MICHAEL WEBER: Okay.

17 FEMALE PARTICIPANT: So we're gathering up  
18 all the information that the Chairman would need prior  
19 to his White House meeting, and we'll coordinate with  
20 him and get it to him.

21 MICHAEL WEBER: That would be great. Does  
22 that include a classified document?

23 FEMALE PARTICIPANT: I have a confidential  
24 document that SETTEN (phonetic) just brought up.

25 MICHAEL WEBER: Yes.

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1 FEMALE PARTICIPANT: Yes.

2 MICHAEL WEBER: That's what I'm asking  
3 about.

4 FEMALE PARTICIPANT: Yes. I have it here.

5 MICHAEL WEBER: Okay. Great.

6 FEMALE PARTICIPANT: Okay.

7 MICHAEL WEBER: So, we will email these to  
8 you.

9 FEMALE PARTICIPANT: You can.

10 MICHAEL WEBER: Okay.

11 FEMALE PARTICIPANT: Okay. And I'll just  
12 print them off and I'll folder it up and we'll get it  
13 to him.

14 MICHAEL WEBER: All right. Thanks.

15 FEMALE PARTICIPANT: Okay. Thank you.

16 MICHAEL WEBER: Bye-bye.

17 FEMALE PARTICIPANT: Bye-bye.

18 FEMALE PARTICIPANT: (Inaudible) completed  
19 now.

20 MICHAEL WEBER: Yes. I've got to send  
21 them over there.

22 FEMALE PARTICIPANT: Okay. I'll close it  
23 up, then.

24 MICHAEL WEBER: Did you notice that the  
25 version that we have includes the model runs, in the

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1 email that I sent you?

2 MALE PARTICIPANT: The model runs are a  
3 separate --

4 MICHAEL WEBER: But they are a part of the  
5 package?

6 MALE PARTICIPANT: But they are a part of  
7 that email.

8 MICHAEL WEBER: We have both electronic  
9 files?

10 MALE PARTICIPANT: That was -- yes.

11 MICHAEL WEBER: Yes.

12 MALE PARTICIPANT: Okay. And how about  
13 the recommendations?

14 MALE PARTICIPANT: The assessments?

15 MICHAEL WEBER: Yes.

16 MALE PARTICIPANT: I have that and I can  
17 forward that to you, the --

18 MICHAEL WEBER: What I want to send to the  
19 Chairman is the talking points, a model and the severe  
20 accident (inaudible) strategy.

21 MALE PARTICIPANT: And when you say "the  
22 model," you're talking about that matrix?

23 MICHAEL WEBER: Yes.

24 MALE PARTICIPANT: Correct. Yes. Yes,  
25 that's all part of that. Okay. And the both

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1 (indiscernible, possibly "conversion") of his  
2 assessment letter. Right here, and I'll forward that  
3 to you.

4 Here's the part (indiscernible, possibly  
5 "comment) and it has an email string attached.

6 MICHAEL WEBER: Thanks.

7 (No audible conversation from 03:02 until  
8 3:40.)

9 MALE PARTICIPANT: You know, in the early  
10 days we might have probably talked about that, but I  
11 think it got lost.

12 (No audible conversation from 3:51 until  
13 4:52.)

14 MICHAEL WEBER: What are you talking  
15 about?

16 MALE PARTICIPANT: The import of product  
17 coming in the country.

18 MICHAEL WEBER: Yes, we did, and we were  
19 told, no, it's okay. Obviously, it's back.

20 MALE PARTICIPANT: (Inaudible)

21 MICHAEL WEBER: Yes.

22 (No audible conversation from 05:14 until  
23 5:52.)

24 MICHAEL WEBER: Just going through and  
25 cleaning up, talking.

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1 (No audible conversation from 05:54 until  
2 9:56.)

3 MICHAEL WEBER: A lot of interesting word  
4 choices at that talking points. Is that a credible --  
5 creditable.

6 (No audible conversation from 10:05 until  
7 19:55.)

8 MICHAEL WEBER: Yes. Should have heard  
9 this. It's in the policy office of the Secretary's  
10 lieutenant.

11 MALE PARTICIPANT: (Inaudible) Secretary.

12 SPEAKER M: I don't have it. I know, I --

13 MALE PARTICIPANT: He was looking at it --

14 MICHAEL WEBER: Tom Bovoso said that he  
15 was the Deputy Assistant Secretary, but there's a lot  
16 of them, so --

17 MALE PARTICIPANT: Right.

18 MICHAEL WEBER: -- I don't know which one  
19 he is.

20 (No audible conversation from 11:20 until  
21 15:02.)

22 MICHAEL WEBER: But did you send me any  
23 other --

24 MALE PARTICIPANT: The RST one?

25 MICHAEL WEBER: Yes.

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1 MALE PARTICIPANT: Yes, sir. It should be  
2 there.

3 MICHAEL WEBER: I've got it. And they  
4 attached -- who reviewed this as an attachment?

5 MALE PARTICIPANT: What, the recovery --  
6 this has been vetted by the tactical members of the  
7 (inaudible) and the three consortiums were cc'd on the  
8 email. It has been agreed upon by (inaudible).

9 MICHAEL WEBER: There was a desire to  
10 identify by name who is the senior (indiscernible,  
11 possibly "bus") person. It's clear that (inaudible)  
12 at the end of the day and (inaudible).

13 They state in there (inaudible).

14 MALE PARTICIPANT: (Inaudible).

15 MICHAEL WEBER: Now in this stuff that we  
16 have for the RST, is this the current version?

17 MALE PARTICIPANT: Should be Rev 1 that is  
18 in circulation right now.

19 MICHAEL WEBER: That's the one that was  
20 distributed by Brian Sharon (phonetic)?

21 MALE PARTICIPANT: I don't think that's  
22 signed. (Inaudible).

23 MALE PARTICIPANT: Really?

24 MICHAEL WEBER: Yes. That went out and  
25 then Brian briefed me last night when he was on shift

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1 at about 1800, that they got it but they wanted to  
2 know exactly who cleared it. So, they were adding an  
3 attachment that identified who was the senior-most  
4 individual who actually approved the document.

5 MALE PARTICIPANT: The RST --

6 MICHAEL WEBER: The RST was showing that.  
7 So I don't want to give the Chairman --

8 MALE PARTICIPANT: Right. Okay.

9 MICHAEL WEBER: -- something that's out of  
10 date, because the one that I have here is dated noon  
11 yesterday. All right.

12 MALE PARTICIPANT: And you said that was  
13 1800 that you --

14 MICHAEL WEBER: Yes. Yes. (Inaudible)  
15 control.

16 MALE PARTICIPANT: The question, it should  
17 be Rev 1.

18 MICHAEL WEBER: Yes.

19 MALE PARTICIPANT: And that is what was  
20 said, it's Rev 1 was handed to me this morning. Are  
21 you looking at it off-screen?

22 MICHAEL WEBER: Yes.

23 MALE PARTICIPANT: If you look at the  
24 recommendations for the -- the containment --

25 MALE PARTICIPANT: Brian --

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1 MALE PARTICIPANT: -- recommendation for a  
2 by unit -- by unit, for Unit 1.

3 MALE PARTICIPANT: Okay.

4 MALE PARTICIPANT: (Inaudible) draft and  
5 it's showing a Rev 1 also. It should have like five  
6 recommendations.

7 MICHAEL WEBER: Right. For Unit 1?

8 MALE PARTICIPANT: Yes. Four or five  
9 recommendations and that should be consideration. And  
10 it looks like the same person (inaudible). We really  
11 do need to have (inaudible). We have a consideration,  
12 A-1 through A-5 below (inaudible).

13 MICHAEL WEBER: A-1 through A-5. So there  
14 would be additional considerations?

15 MALE PARTICIPANT: Yes.

(b)(5)

16 (b)(5)

17  
18  
19 MICHAEL WEBER: (indiscernible, possibly

20 (b)(5)

21 MALE PARTICIPANT:

(b)(5)

22 (b)(5)

23  
24  
25 MALE PARTICIPANT: (Inaudible) my belated

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1 (inaudible) showing up in your email, and it has the  
2 separate document.

3 MALE PARTICIPANT: Okay.

4 MALE PARTICIPANT: That was (inaudible).

5 MALE PARTICIPANT: Yes. All right. While  
6 you're looking at that, (inaudible).. We did talk with  
7 Mike Scott on the team, just caught him before he went  
8 to bed and Mike does not know what meeting Shipper may  
9 have sat in, but he wasn't at any of the meetings with  
10 the team.

11 MALE PARTICIPANT: Really?

12 MALE PARTICIPANT: I'm not sure -- I'm not  
13 sure what meeting he was attending, but the site team  
14 needed to (inaudible) before they entered the  
15 appropriate action.

16 MALE PARTICIPANT: If TEPCO chooses not to  
17 flood up, the consortium is looking at alternative  
18 recommendations. In other words, okay, TEPCO doesn't  
19 want to flood up. That's one of the items of  
20 (indiscernible, possibly "templates") here.

21 But we're going to start thinking, okay,  
22 what -- what is -- if they're not going to do that,  
23 what should we be thinking about.

24 MALE PARTICIPANT: Right. Plan B.

25 MALE PARTICIPANT: Right. We're working

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1 on that piece of it also.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: Does that help?

4 MALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: Okay.

6 MALE PARTICIPANT:

(b)(5)

7 (b)(5)

11 MALE PARTICIPANT: Right.

12 MALE PARTICIPANT: If it's a  
13 recommendation, if the organization chooses not to do  
14 it, then we're looking at --

15 MALE PARTICIPANT: Right.

16 MALE PARTICIPANT: -- are there any other  
17 considerations that we should be thinking through and  
18 providing.

19 MALE PARTICIPANT: All right.

20 MALE PARTICIPANT: Okay. Thank you.

21 (No audible conversation from 20:16 until  
22 20:23.)

23 MALE PARTICIPANT: All right. (Inaudible)

24 MALE PARTICIPANT: Got that.

25 MALE PARTICIPANT: As for that.

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1 MALE PARTICIPANT: Do you want the  
2 documents in hard copy or electronic?

3 MALE PARTICIPANT: Electronic.

4 MALE PARTICIPANT: Okay.

5 MALE PARTICIPANT: There it is. Ah --  
6 okay.

7 MALE PARTICIPANT: Okay. Wow.

8 MALE PARTICIPANT: (Inaudible) change.

9 MALE PARTICIPANT: Well, Admiral Donald is  
10 the one who reviewed it for Naval Reactors. There's -  
11 - we don't have NRC in here.

12 MALE PARTICIPANT: Or DOE's.

13 MALE PARTICIPANT: Oh, (indiscernible,  
14 possibly "cringe").

15 Okay. Now I have what I needed. What's  
16 Katina's (phonetic) last name?

17 MALE PARTICIPANT: (Inaudible).

18 MALE PARTICIPANT: Yes. That's right.  
19 Thanks.

20 MALE PARTICIPANT: Do ETO's have an ETO-5,  
21 OS -- OST --

22 MALE PARTICIPANT: FOIA.

23 MALE PARTICIPANT: FOIA.

24 MALE PARTICIPANT: FOIA (indiscernible,  
25 possibly "batch"). Thank you.

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1 MALE PARTICIPANT: (Inaudible).

2 MALE PARTICIPANT: (indiscernible,  
3 possibly "Who's") relieving me today?

4 MALE PARTICIPANT: (Indiscernible,  
5 possibly "Scroger").

6 MALE PARTICIPANT: Scroger. And then  
7 (indiscernible, possibly "Cindy")?

8 MALE PARTICIPANT: (Inaudible).

9 MALE PARTICIPANT: (Inaudible) Carpenter?

10 MALE PARTICIPANT: (Inaudible). Or you  
11 want (inaudible)?

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: (Indiscernible,  
14 possibly "I have an old copy.")

15 (No audible conversation from 24:07 until  
16 32:16.)

17 MALE PARTICIPANT: Okay.

18

19

20

21

22

23

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25

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1 (CONFERENCE CALL INITIATED)

2 OPERATOR: (Inaudible) the Chairman.

3 MALE PARTICIPANT: Now, that could change  
4 over the next couple of days, right?

5 MALE PARTICIPANT: Right.

6 FEMALE PARTICIPANT: (Rene) EDO's Office,  
7 Rene speaking.

8 MICHAEL WEBER: Hey, Rene. Mike Weber  
9 calling.

10 FEMALE PARTICIPANT: Hi, Mike.

11 MICHAEL WEBER: I've got a question for  
12 you.

13 FEMALE PARTICIPANT: Yes.

14 MICHAEL WEBER: Can you check with Bill  
15 and ask whether he wants us to send the RST assessment  
16 to the individual from the Japanese embassy.

17 FEMALE PARTICIPANT: Okay.

18 MICHAEL WEBER: He sent us an email, but  
19 it wasn't clear what action he wanted us to take on  
20 it.

21 FEMALE PARTICIPANT: Okay. To the  
22 individual at the Japanese embassy?

23 MICHAEL WEBER: Yes. We're prepared to do  
24 that, but I didn't want to send it if he is not  
25 intending us to send it.

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1 FEMALE PARTICIPANT: Okay. Do you want to  
2 hold on, or do you want me to give you call back?

3 MICHAEL WEBER: I can hold.

4 FEMALE PARTICIPANT: Okay. Hold on.

5 (Holding.)

6 MALE PARTICIPANT: (b)(5)

7 (b)(5)

8  
9  
10 MALE PARTICIPANT: Yes. Can you see it  
11 (inaudible)?

12 MICHAEL WEBER: Not really.

13 MALE PARTICIPANT: No?

14 MALE PARTICIPANT: (Bill) Hi, Mike.

15 MICHAEL WEBER: Hey, Bill. Hi, how are  
16 you?

17 MALE PARTICIPANT: Good. How are you?

18 MICHAEL WEBER: Good. Do you want us to  
19 send that product to --

20 MALE PARTICIPANT: It's gone to our team  
21 in Japan.

22 MICHAEL WEBER: Yes, and they have shared  
23 it with their Japanese counterparts.

24 MALE PARTICIPANT: Okay. So I think -- I  
25 think we could do that, though.

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1 MICHAEL WEBER: Okay.

2 MALE PARTICIPANT: It doesn't have -- yes.

3 MICHAEL WEBER: So we'll -- I'll just send  
4 them an email and --

5 MALE PARTICIPANT: Yes.

6 MICHAEL WEBER: -- say, in response to  
7 your email to Mr. Borchers, here's the requested  
8 assessment?

9 MALE PARTICIPANT: Yes.

10 MICHAEL WEBER: Okay. And --

11 MALE PARTICIPANT: (Inaudible) been  
12 provided to, what, TENESA (phonetic), or --

13 MICHAEL WEBER: I don't know which  
14 organization they have but when we talked to John  
15 Moninger about it this morning he said that they have  
16 shared it with their -- their Japanese counterparts.

17 MALE PARTICIPANT: Okay. That's good.

18 MICHAEL WEBER: Okay.

19 MALE PARTICIPANT: And did Rene talk to  
20 you about the Chairman's Office has asked whoever is  
21 acting for me to acting chairman while he's gone? So  
22 you might have it for part of the day on Sunday.

23 MICHAEL WEBER: Okay.

24 MALE PARTICIPANT: And then Marty, and  
25 then the following weekend, I think, is also. So -- I

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1 forget when you and Marty are swapping back.

2 MICHAEL WEBER: I think that that's like  
3 six o'clock Monday morning or something like that.

4 MALE PARTICIPANT: Okay. So you might be  
5 safe, but --

6 MICHAEL WEBER: Yes.

7 MALE PARTICIPANT: All right.

8 MICHAEL WEBER: And that's the emergency  
9 powers, right?

10 MALE PARTICIPANT: Well, that's not clear.

11 MICHAEL WEBER: Oh.

12 MALE PARTICIPANT: Well, I'll try to get  
13 some --

14 MICHAEL WEBER: Okay.

15 MALE PARTICIPANT: -- clarity on that one.

16 MICHAEL WEBER: I saw the four issued  
17 their own letter.

18 MALE PARTICIPANT: Yes. Have you seen the  
19 letter?

20 MICHAEL WEBER: I did.

21 MALE PARTICIPANT: I haven't seen that,  
22 but --

23 MICHAEL WEBER: Oh, it was in your box  
24 this morning.

25 MALE PARTICIPANT: Oh. Okay.

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1 MICHAEL WEBER: I came in early this  
2 morning and I saw it sitting on Rene's countertop, and  
3 it was like somebody came by late last -- yesterday,  
4 and dropped it off there.

5 MALE PARTICIPANT: All right.

6 MICHAEL WEBER: So that's why I -- I took  
7 note of it because you don't usually see thing sitting  
8 there, and then I read it and I thought, "Oh."

9 MALE PARTICIPANT: Yes.

(b)(5)

(b)(5)

10

11 MICHAEL WEBER: Yes.

12 MALE PARTICIPANT: All right.

13 MICHAEL WEBER: All right.

14 MALE PARTICIPANT: Thanks, Mike.

15 MICHAEL WEBER: All righty.

16 MALE PARTICIPANT: Bye.

17 MICHAEL WEBER: Bye-bye.

18

19

20

21

22

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I'm preparing for  
(indiscernible, possibly roster playback.

OPERATOR: There are currently seventeen  
participants in your conference. The following people  
are in the conference:

MALE PARTICIPANT: NRC Headquarters  
Operations Officer.

RANDY GIPASSO (phonetic): Randy Gipasso  
(phonetic), INPO.

CAL DOUD (phonetic): Cal Doud (phonetic)  
DOE Office of Nuclear Energy.

MALE PARTICIPANT: (Inaudible) PACOM, GMT.

COLONEL CRAIG GATTIS: Colonel Craig  
Gattis, Joint Staff, J-4.

DUTY OFFICER DALE WEBSTER (phonetic):  
Duty Officer Dale Webster (phonetic), INPO.

MALE PARTICIPANT: (Inaudible).

KEVIN MULLIGAN: Good evening. Kevin  
Mulligan, INPO Emergency Response Center.

AL SHAFFER (phonetic): Al Shaffer  
(phonetic), Industry Support Team, Tokyo.

RICK NIELSON (phonetic): Rick Nielson  
(phonetic), INPO.

COLONEL PRICE: Colonel Price, U.S.

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1 Pacific Command.

2 TOM BOVOSO (phonetic): Tom Bovoso  
3 (phonetic), Naval Reactors.  
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(CONFERENCE CALL INITIATED)

GLENN SOUTHERN: Glenn Southern, Naval  
Reactor.

ALLEN BLAMEY (phonetic): Allen Blamey  
(phonetic), NRC Japan Team.

MALE PARTICIPANT: (Inaudible).

LEE GUARD: Lee Guard (phonetic), INPO.

MALE PARTICIPANT: (Inaudible).

RON SHERRY: Ron Sherry (phonetic),  
Department of --

OPERATOR: Roster playback is complete.

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(CONFERENCE CALL INITIATED)

BRUCE BOVER (phonetic): Hello, everyone.

This is Bruce Bover (phonetic). I'm the Executive Team Director in the NRC Operations Center this evening. And welcome you all to the call.

We went through the roll call and, from my list from yesterday, it appears that there are perhaps a couple of people that are on the call tonight that were not on it yesterday.

And I would ask if that those folks that weren't on yesterday email us your name and affiliation so that we can provide you the minutes when they -- when they come out.

And if you'd like to do that, the address is et05.hoc@nrc.gov.

So I guess the next steps, I was prepared to go through the list of the material -- action items and the materials request list. And the version I'm looking at is current as of 7:41 on April 1st, 2011. Is that the -- I hope everyone has that version.

(No response.)

BRUCE BOVER: Okay. That's a good sign. So let's go through the list. The first item is Item 1, and it's an info item.

RICK NIELSON: This is Rick Nielson, and

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1 I'll cover that. There are -- this is the  
2 (indiscernible, possibly "mission") as we discussed  
3 yesterday.

4 There were (inaudible) that were trying to  
5 --

6 BRUCE BOVER: Rick, we are getting a lot  
7 of feedback or something. Is there anything you can  
8 do to help?

9 RICK NIELSON: Yes. That's -- I'm not  
10 sure if that (inaudible) at my end. Let me call in  
11 one more time and then (inaudible).

12 BRUCE BOVER: Okay.

13 ALLEN BLAMEY: And this is Allen Blamey  
14 from the Japan team. Let me go through what we've  
15 been doing here at the embassy as of yesterday the  
16 staff (inaudible) is really stalled due to  
17 transportation from the U.S. and Canada to Japan.

18 I've been working with the USAID here in  
19 the embassy, and we're working on arranging the  
20 logistics to move it from the US and Canada to Japan,  
21 and we are still working through that today with  
22 USAID.

23 BRUCE BOVER: Okay. So it sounds like  
24 that was working, but still open.

25 ALLEN BLAMEY: Yes. That is correct. And

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1 once we have INPO back on the line again, I did want  
2 to verify one or two items with them, but I don't want  
3 to hold the call up because of that.

4 RICK NIELSON: Yes. This is Rick Nielson  
5 back on. Is that any better?

6 BRUCE BOVER: I'm afraid not, Rick.

7 RICK NIELSON: Let me try it -- how's  
8 that?

9 BRUCE BOVER: No.

10 RICK NIELSON: I'll try another line.

11 BRUCE BOVER: Okay. For the sake of  
12 continuing on, let's -- I'm sure he's trying to get  
13 back in to us, but let's -- let's go to the next item,  
14 which is Item 15, J-4 PACOM (phonetic).

15 MALE PARTICIPANT: This is J-4 PACOM.

16 BRUCE BOVER: All right. This is the item  
17 that has to do with coordinating whether it's a  
18 commercial carrier or a military air transport for a  
19 delivery of equipment.

20 It's shown as open on the status list but  
21 is it really an open item?

22 MALE PARTICIPANT: Is it really an item?

23 MALE PARTICIPANT: Well, we're still  
24 waiting on weight and dimensions.

25 RICK NIELSON: Hello. This is Rick

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1 Nielson. Is that any better?

2 BRUCE BOVER: Yes, it is, Rick.

3 RICK NIELSON: Okay. Good. Sorry. I  
4 missed most of that, so let me try to catch up and  
5 I'll listen a minute.

6 MALE PARTICIPANT: Okay. PACOM repeating.  
7 We're still waiting for weight dimensions on Item B.

8 RICK NIELSON: On the third item? Say  
9 that again. On the third item?

10 MALE PARTICIPANT: It was -- we have it  
11 listed as Item No. (inaudible). It's request for  
12 military air transport, PACOM Q-4 (phonetic) is  
13 waiting weight dimensions of the cargo.

14 RICK NIELSON: Okay.

15 MALE PARTICIPANT: What is the item? What  
16 is the cargo?

17 MALE PARTICIPANT: Is this more of a  
18 process question than a specific item? That's how I  
19 read it, that depending on the weight of the item and  
20 the cargo, that evaluation process will be done  
21 whether commercial or military air as the best  
22 methods.

23 MALE PARTICIPANT: That's (inaudible)  
24 correct, but small (inaudible) cost-effective. But if  
25 you've got a large out-sized item where you need

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1 something like a C-17, oftentimes we're -- we're a  
2 good choice.

3 MALE PARTICIPANT: Okay. So, for  
4 instance, the 20 -- (inaudible) then the 24 hand and  
5 foot friskers that are 850 pounds-per would be a  
6 likely candidate for mil air?

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Who's got the ball to  
9 make that connection?

10 RICK NIELSON: Well, I'll take the ball.  
11 This is Rick Nielson. I'll take responsibility for  
12 getting the exact dimensions. We do have the weight.  
13 Each of those items is 850 pounds. The exact  
14 dimensions are available. I don't have them right --  
15 right in front of me, but they are certainly  
16 available.

17 ALLEN BLAMEY: Okay. And if we -- this is  
18 Allen Blamey with the Japan Team. If we do that we  
19 were setting up with you and Dave, but if we can make  
20 the decision here, that at least the hand and foot  
21 friskers that you had that were 800 pounds apiece, if  
22 we make the decision now to move forward with that, I  
23 have no problem and it sounds like that may be  
24 appropriate with the size and weight.

25 MALE PARTICIPANT: If USAID says they will

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1 do it, I would go with them first, but if they cannot  
2 do it, pick up the -- pick up the military, but if you  
3 -- did USAID say they can do it?

4 ALLEN BLAMEY: They were still checking on  
5 that yesterday when I talked with them, and I haven't  
6 seen anybody in yet this morning. They will be coming  
7 in here in a little bit.

8 MALE PARTICIPANT: If you have a POC for  
9 USAID, I may have a USAID here at -- a liaison officer  
10 here at PACOM that can contact and kind of help track  
11 that down from our end as well.

12 MALE PARTICIPANT: Okay.

13 MALE PARTICIPANT: Is it (inaudible)  
14 whether or not USAID is going to pay for any shipping  
15 or is it (inaudible)?

16 ALLEN BLAMEY: Well, I guess at this point  
17 what I would recommend, leave this one right now with  
18 the embassy. I will work through USAID, and it  
19 sounds like there's a liaison officer at PACOM that  
20 USAID can work with to make a determination as to  
21 whether these are going to be shipped military air or  
22 commercial air.

23 MALE PARTICIPANT: Well, his name is Mr.  
24 Ted Gear, G-e-a-r. First name Ted, and most of the  
25 AID guys will know each other.

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1 ALLEN BLAMEY: Okay. Understand. Ted  
2 Gear is the responsible person. That would be the  
3 liaison officer at PACOM.

4 MALE PARTICIPANT: That is correct.

5 ALLEN BLAMEY: Okay. Got it.

6 MALE PARTICIPANT: Allen, I would also  
7 suggest that you work with the embassy staff there  
8 because we have USAID representatives in-country and  
9 working through the embassy staff and the  
10 (indiscernible, possibly "pot mill") function at USFJ  
11 might be a quicker path to do that because then we get  
12 a quicker answer.

13 And if we want to do mil air, the  
14 government of Japan is going to have to do a formal  
15 request for us to get that mil air. So if you are  
16 lock-step with the embassy that will probably expedite  
17 getting this request addressed.

18 MALE PARTICIPANT: Concur. PACOM concurs.

19 ALLEN BLAMEY: Yes. And at USAID the  
20 people that I have been involved with are here at the  
21 embassy right now, and I believe that this one already  
22 has a formal request from the government of Japan for  
23 this need.

24 Now, I don't believe they specifically  
25 requested military transport, but there is an official

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1 request for this -- for these monitors.

2 MALE PARTICIPANT: I believe the request -  
3 - from what we've heard at SECOM, that is correct,  
4 too. And once they make a determination on who is the  
5 better means to get it there, that's when we really  
6 get involved, and I believe PACOM DMT is on the line  
7 as well, and they -- and they work in conjunction with  
8 RJ 4 DASH (phonetic) and move the item.

9 ALLEN BLAMEY: Okay.

10 MALE PARTICIPANT: Hey. This is  
11 (indiscernible, possibly "OKEER") from Tokyo. The  
12 dimensions of the hand and foot monitors are 26 inches  
13 by 56 inches by 29 inches.

14 ALLEN BLAMEY: Okay. I roger 26 by 56 by  
15 29 inches.

16 MALE PARTICIPANT: PACOM concurs.

17 ALLEN BLAMEY: Okay. And you were  
18 looking, you said, about 800 pounds per monitor?

19 NICK NIELSON: Correct. I think it's  
20 closer to 850.

21 ALLEN BLAMEY: Eight-five-zero?

22 MALE PARTICIPANT: PACOM.

23 MALE PARTICIPANT: Twenty each.

24 MALE PARTICIPANT: And there are 20 each.  
25 We understand.

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1 RICK NIELSON: Correct.

2 MALE PARTICIPANT: Okay.

3 COLONEL WAHL (phonetic) : This is Colonel  
4 Wahl (phonetic) at J-4 at US Support Force. Regarding  
5 that official request on this, I work in the Joint  
6 Logistics Operations Center.

7 I have seen the emails and the traffic on  
8 this, but we do not have any validated requirement  
9 from the Joint Staff from the government of Japan for  
10 these items yet. And I'm the guy that works these  
11 official requests within the Joint Support Force.

12 MALE PARTICIPANT: Our PACOM team 4 guy  
13 just nodded acknowledgement to that point.

14 COLONEL PAT WAHL: So, I mean, I know  
15 there's -- this thing's being kicked around. I got  
16 this list and I sent it to our L&O's at the Japanese  
17 Joint Staff for validation, but everything that we get  
18 here in our log ops center we make sure that it's  
19 validated to the Japanese Joint Staff.

20 So when it goes to that transportation, if  
21 PACOM, you know, works the transportation, hey, got  
22 it, but if you're looking to us to do that, we won't  
23 -- we won't do it until it's validated from the Joint  
24 Staff.

25 RICK NIELSON: And this is Rick Nielson.

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1 This point right here is -- is probably the EP's that  
2 we need to understand how to do going forward, because  
3 there are going to be more of these requests and more  
4 of this issue. So if we can get this process point,  
5 it means that it's just critical to the going forward  
6 strategy.

7 COLONEL PAT WAHL: Okay.

8 ALLEN BLAMEY: And I agree. This is Allen  
9 Blamey in the embassy. This is one of the issues that  
10 we have had just trying to work through the logistics.

11 I think this is the first one that I have  
12 been dealing with here, but I think this is going to  
13 be a challenge. Once we get this one, perhaps the  
14 other ones will start to flow a little bit easier.

15 But I've been requested that I should go  
16 through USAID for these and that's what I started  
17 yesterday. So this is good information.

18 I'll make sure that the USAID person is  
19 aware of the contents that I have, along with the  
20 dimensions and things like that, and then we will  
21 continue to work with the USAID people here to move it  
22 forward.

23 And I do know that the government of Japan  
24 has requested this, but as far as having -- if their  
25 military specifically requested this, I'm not sure.

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1 This one came out of the cabinet meeting that  
2 occurred, I think on the 25th of March.

3 And we have all that information which we  
4 can provide.

5 COLONEL PAT WAHL: Right. Just if you --  
6 you know, the process we set up, once the Joint Staff  
7 was made the lead for the task force for Fukushima, we  
8 set our process in and everything -- really everything  
9 that we gave to GOJ in support of them, we routed it  
10 back to -- to the Joint Staff to ensure that they were  
11 aware of it and validated that requirement.

12 So -- and that's really the only -- only  
13 through the Joint Staff have we received anything  
14 officially from GOJ in writing.

15 Now, if there's another ministry or other  
16 route from GOJ that we get in writing officially, our  
17 embassy blesses it, then our, you know, headquarters  
18 says go with it, certainly we will.

19 But the only thing that we've ever  
20 received in writing during this whole operation has  
21 been from the Joint Staff.

22 ALLEN BLAMEY: Okay.

23 LT. COMMANDER MERCER: Colonel Wahl, this  
24 is Lieutenant Commander Mercer. I just have two  
25 questions.

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1           One, is there a way that your group can  
2 work with the NRC reps at the embassy, because I see a  
3 gap here where basically we're saying, hey, you guys  
4 got to provide it to us, and then they don't  
5 necessarily know the process.

6           I think we've got to close that gap and  
7 work hand-in-hand to get items that we know there's a  
8 need and we have a way -- the items identified, to  
9 make that work better, because they don't understand  
10 our process.

11           COLONEL PAT WAHL: Yes. I mean, and  
12 that's easy, and -- and we have pretty much taken any  
13 kind of info we've received from anybody and circled  
14 it right back to our L&O's at the Joint Staff, and  
15 then they work it with the Joint Staff and through the  
16 BCAT over at Ichigaya (phonetic), and then once they  
17 validate it or validate that it's not required, they  
18 send that back to us and we work it from there.

19           LT. COMMANDER MERCER: Okay. And then my  
20 second question, for this particular item, the hand  
21 and foot friskers, do we have an idea of when we may  
22 hear back from the Joint Staff if this is valid  
23 request?

24           COLONEL PAT WAHL: No, I don't. You know,  
25 we sent it to them a couple of days ago, but let me --

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1 let me back up for a minute.

2 I think what is probably the best route  
3 with the embassy, and with those ministries there, you  
4 know, there is a bilateral crisis action team at  
5 Ichigaya that is more than just MOD and more than just  
6 the Joint Staff.

7 It is some of the other relevant  
8 ministries and agencies. And so that BCAT is the real  
9 process that the Japanese and, really, our folks at  
10 the embassy are using to validate GOJ requirements.

11 With -- so once they've done that, they  
12 send it to us in the 4-shop.

13 So my recommendation is that when the  
14 embassy has those requirements, that they -- the most  
15 direct route is giving it straight to the US L&O's at  
16 -- at the Joint Staff.

17 Now, I certainly don't mind getting them,  
18 myself, and I'll turn around and send them to our  
19 L&O's, but I have a feeling I don't have all the data  
20 that you guys are working with right now.

21 RICK NIELSON: This is Rick Nielson. I'm  
22 hearing that there's a requirement that's not being  
23 met here and I understand that, but what's not clear  
24 is that there's a good path forward that someone on  
25 this call has the ownership of and we're not sure what

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1 to do.

2 ALLEN BLAMEY: I believe, Rick, that the  
3 embassy is doing the process of putting the logistics  
4 together, and that's really where we need to make  
5 things happen because this is just one of several  
6 items that will be coming through.

7 Clearly the NRC doesn't typically maintain  
8 the logistics in this case to move it from point A to  
9 point B and, if I'm not mistaken, the embassy has some  
10 logistics people coming, I think early next week, that  
11 they're going to start to try and pick some of this  
12 coordination of these activities.

13 So we're in a -- we're between, you know,  
14 Friday and Monday right now, and I've got to be  
15 working with the USAID people to try and keep this  
16 thing moving. So, I think that's where we are at this  
17 point in time.

18 TOM BOVOSO (phonetic): Hey, this is Tom  
19 Bovoso from Naval Reactor. Who has to talk to who  
20 next to close the gap? We need names. Who --

21 ALLEN BLAMEY: Yes, and the way it stands  
22 right now -- this is Allen Blamey in the embassy, and  
23 I was going to be talking with either Bill Berger  
24 today or Joe Hugart (phonetic) today of USAID so that  
25 they can start moving on the logistics.

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1 And once they get it, then I'm not sure  
2 where they go with that issue.

3 TOM BOVOSO: Right. So that's where we  
4 need to go, and then what? Who -- who needs the  
5 information? I don't know who was speaking up before  
6 from PACOM. I think it was PACOM. Who do they need  
7 to go to?

8 COLONEL PAT WAHL: If -- this is Colonel  
9 Pat Wall again, and the J-4 at the Joint Support Force  
10 here in Yokota Air Base.

11 If you desire, the US military, at least  
12 the US forces in Japan assistance, if we are getting  
13 tagged for -- to provide something, whatever we  
14 receive we -- it must be validated by the government  
15 of Japan.

16 So, the mechanism that we use to validate  
17 that requirement is the bilateral crisis action team  
18 that is headquartered at the Japanese Ministry of  
19 Defense Compound at Ichigaya in Tokyo.

20 The way we do that is, if I receive a  
21 request I send it to our liaison officers headed by  
22 Colonel Steve Towne and General Crou (phonetic) is out  
23 there also, but Colonel Towne is working these.

24 They take that request to the BCAT, the  
25 bilateral crisis action team. They validate it and

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1 then they send it back to us for execution.

2 ALLEN BLAMEY: Okay. So if we want to  
3 move this today I can start in the embassy by talking  
4 with the USAID people that I have listed before.

5 And, once I talk with them, who would be  
6 the point of contact that they would get -- then get  
7 in touch with? And if you can give me the point of  
8 contact that they should call with a phone number, I  
9 can move -- I can try and continue to move that  
10 through the embassy.

11 COLONEL PAT WAHL: Okay. There are two --  
12 two points of contact there. The -- the folks are  
13 liaison officers at the Joint Staff, that's Colonel  
14 Steve Towne, and there are -- there's two phone  
15 numbers here. It's 224-7717.

16 RICK NIELSON: Colonel, that's a DSM,  
17 correct?

18 COLONEL PAT WAHL: Correct.

19 ALLEN BLAMEY: The embassy has DSM. That  
20 will work.

21 RICK NIELSON: Okay.

22 ALLEN BLAMEY: So it sounds like the Joint  
23 Chief, that would Colonel Towne, and he can be reached  
24 at 224-7717.

25 COLONEL PAT WAHL: And also 7731.

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1 ALLEN BLAMEY: 7731 as well.

2 COLONEL PAT WAHL: Now, if you send it to  
3 us here at the -- at the 4-shop -- well, it's probably  
4 best if -- if it's getting coordinated, it's probably  
5 best just to go straight to those guys.

6 ALLEN BLAMEY: Okay. So I will note when  
7 I talk with USAID that probably the next step would be  
8 to get in touch with Colonel Towne at the numbers that  
9 you provided.

10 COLONEL PAT WAHL: Correct.

11 ALLEN BLAMEY: Okay.

12 COLONEL PAT WAHL: And our USAID guys  
13 here, Yonnybock (phonetic) he is in the -- he's in the  
14 loop on that process as well.

15 ALLEN BLAMEY: All right. Excellent.

16 GLENN SOUTHERN: Can I just make a point?  
17 I want to make sure we're not talking past each other  
18 there. This is Glenn Southern. Is this just a matter  
19 of who is paying and then who is providing the  
20 logistic support?

21 And what I have in front of me shows that  
22 the requirement's been validated by the Japanese.  
23 There's a request for US military support, which  
24 request, radiation detectors.

25 We have a memorandum signed by General

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1 Hironaka (phonetic). I have a copy of that in front  
2 of me. So, is that not proof that this is a valid  
3 requirement?

4 COLONEL PAT WAHL: Yes, it is. And,  
5 certainly, General Hironaka is a valid requirement. I  
6 can tell you that if there is a requirement for us to  
7 transport that, the US military, or to have some sort  
8 of interaction with that, at least out of the 4-shop,  
9 I don't have that requirement right now.

10 GLENN SOUTHERN: You're saying this  
11 memorandum or the --

12 COLONEL PAT WAHL: Correct.

13 GLENN SOUTHERN: Okay. That can get  
14 fixed.

15 RICK NIELSON: Rick Nielson again. I may  
16 not have been on the line when this was discussed. Is  
17 it easier to get that commercially and just have the  
18 US Government pay for that?

19 GLENN SOUTHERN: Again, I thought that  
20 when we started this whole discussion, it really comes  
21 down to who is paying for it. Is USAID writing a  
22 check for it or is the military going to ship it under  
23 at TACOM (phonetic), either via commercial or mil air?  
24 Isn't that the issue?

25 ALLEN BLAMEY: Yes. And I think that's

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1 one of the issues that USAID has to review and make a  
2 decision on.

3 GLENN SOUTHERN: And you have -- you have  
4 somebody -- a bull's eye on somebody's chest that's  
5 going to make that decision --

6 ALLEN BLAMEY: Yes, I do.

7 GLENN SOUTHERN: -- because they have not  
8 objected to --

9 ALLEN BLAMEY: Yes, I do.

10 GLENN SOUTHERN: -- get these things  
11 moving or not.

12 ALLEN BLAMEY: Yes. And to move it into  
13 the logistics chain. I have the next person to  
14 contact to do that.

15 GLENN SOUTHERN: Okay. And they were  
16 going to make a decision whether or not to write the  
17 check?

18 ALLEN BLAMEY: I believe that will be --  
19 yes.

20 GLENN SOUTHERN: Okay. So regardless of  
21 who writes the check, you've got to make sure that it  
22 should go military or commercial?

23 ALLEN BLAMEY: And when I discussed the  
24 issue with them yesterday, that was one of the things  
25 that they were looking at. They were curious on the

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1 number of boxes, the size and the weight.

2 And we have that now, as well as where to  
3 deliver them, and we made that decision yesterday,  
4 that we were going to be delivering these to probably  
5 the Norida (phonetic) airport, and then it would be  
6 turned over to the government of Japan.

7 So I think the only thing that's left to  
8 do from my perspective is to work with USAID, provide  
9 this information to them and once they have it they  
10 will talk with INPO to verify a pickup date, to verify  
11 additional information on the pickup date, the  
12 location, as well as, you know, the quantity of the  
13 items being shipped, the boxes, things like that.

14 And once that gets into the logistics  
15 chain, then USAID or if they transfer it over to  
16 military, either one should work through those issues  
17 to move it from point A to point B.

18 GLENN SOUTHERN:

19 BRUCE BOVER: Who needs a copy of the memo  
20 that Mr. Southern was referring to?

21 LT. COMMANDER MERCER: Colonel Wahl needs  
22 that. This is Lieutenant Commander Mercer. I will  
23 take that action to send it to him.

24 BRUCE BOVER: Okay.

25 MALE PARTICIPANT: Do you feel comfortable

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1 we have a path forward?

2 GLENN SOUTHERN: Yes. And I'd like to  
3 suggest for the military side here. I think we need  
4 to, separate from this discussion, but I think we have  
5 a do -- I was just making a basic set of instructions  
6 that we can give to those agencies so they, or at  
7 least to the representatives from the NRC at the  
8 embassy so they know exactly how to do this. That way  
9 they will have clear step-by-step guidance.

10 ALLEN BLAMEY: Yes, and I think that would  
11 be welcome and, as I stated before, I believe the  
12 embassy is planning to bring in some additional  
13 military people to handle the logistics, but I'm not  
14 sure if they're going to be in today or if they're  
15 going to be coming in the near future.

16 So I really believe that, once those  
17 people get here, a lot of the logistics is going to be  
18 handled through that organization.

19 RICK NIELSON: Okay. And this is Rick  
20 Nielson again. There are, associated with this  
21 particular action item, two more points for -- at  
22 pickup, too.

23 These are much smaller base and, in our  
24 opinion, they should go commercial.

25 GLENN SOUTHERN: Okay. Does INPO have --

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1 have a line of accounting or an account with Fed-Ex to  
2 get these things shipped and get these things on a  
3 plane?

4 RICK NIELSON: Well, we don't.

5 GLENN SOUTHERN: Well, what's it going to  
6 take to do that?

7 RICK NIELSON: And the utilities that have  
8 them very likely do.

9 GLENN SOUTHERN: Okay. Can we just make a  
10 decision right now that they're going to cover the  
11 bill of getting these things on a plane and shipped  
12 once we get a point of contact for somebody to receive  
13 them?

14 RICK NIELSON: We can -- we can look into  
15 that. It was our understanding that the -- that this  
16 would be handled by the government, though, and that's  
17 -- that's what the utilities are laboring under.

18 GLENN SOUTHERN: Right. But I mean what  
19 we're talking about here is an impact to the whole  
20 industry, and the sooner we get this stuff moving and  
21 get this situation under control the better off the  
22 whole industry is going to be.

23 So I wouldn't think we'd be frightened  
24 about a few -- a few thousand bucks or -- or so to get  
25 these things over there.

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1 RICK NIELSON: Well, let me ask this: Is  
2 the process -- because, it's very important for us to  
3 understand the process going forward. This is a  
4 different aspect, different twist on the process.

5 If we use commercial to ship other things  
6 in going forward, it's just the same process that we  
7 have to use. That's an important thing for us to  
8 understand.

9 GLENN SOUTHERN: Well, clearly, if it's a  
10 small item, a one-of or, you know, and relatively  
11 small, not a whole C-17 worth of stuff, a commercial  
12 carrier is likely the best bet, and then it's really  
13 just the decision of cutting the check and getting it  
14 sent, finding the point of contact to receive it and  
15 getting them sent.

16 RICK NIELSON: Okay. So what we're  
17 talking about here is a half-pallet in a 55-gallon  
18 drum size worth of material at -- in South Texas and  
19 several boxes in Southern California.

20 GLENN SOUTHERN: Then get them shipped  
21 tomorrow. Are we waiting on, again, authorization for  
22 a few thousand bucks?

23 RICK NIELSON: We are at this point.

24 GLENN SOUTHERN: Who can make a decision  
25 to say, okay, get that stuff moving?

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1 RICK NIELSON: That's a utility. We'll  
2 look into that.

3 GLENN SOUTHERN: Okay. Can you provide a  
4 point of contact back to this -- to this group with  
5 who that decision lies with at those utilities?

6 RICK NIELSON: The answer is yes. I will  
7 take the action to look into that aspect.

8 GLENN SOUTHERN: Are you -- I'm sorry.  
9 Are you at the command center in Atlanta? Is that the  
10 --

11 RICK NIELSON: Yes. This is Rick Nielson  
12 in Atlanta.

13 GLENN SOUTHERN: Okay. Does that seem  
14 like a reasonable approach?

15 RICK NIELSON: It seems like more a  
16 reasonable approach to have the government of Japan  
17 reimburse for -- for that, because these -- these are  
18 things that the utility is just paying for. But to  
19 get the -- to get quick movement, that's something we  
20 need to look into and consider.

21 GLENN SOUTHERN: I agree.

22 BRUCE BOVER: Okay. So Rick's got that  
23 one for those -- the San Onofre and the South Texas?

24 RICK NIELSON: Yes.

25 BRUCE BOVER: Okay. And then -- and then

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1 NRC Japan is going to work with the USAID to determine  
2 if they can cut the check and get these things that  
3 are up in Canada, or in Ontario on commercial or on  
4 military air?

5 ALLEN BLAMEY: That's correct.

6 BRUCE BOVER: Okay.

7 MALE PARTICIPANT: And based on my  
8 (inaudible) discussion, those won't even be ready for  
9 another four days.

10 MALE PARTICIPANT: That was the last word  
11 we had.

12 MALE PARTICIPANT: Yes. That was -- as of  
13 last night it was four, so I figured -- or five, so I  
14 figured it's four.

15 MALE PARTICIPANT: Correct.

16 MALE PARTICIPANT: Okay.

17 ALLEN BLAMEY: So we would be looking at  
18 picking those up. They would be available. Let me  
19 step back.

20 The hand and foot friskers that are coming  
21 out of Bruce in Canada, they would be available for  
22 pickup Tuesday?

23 RICK NIELSON: They should be, yes.

24 ALLEN BLAMEY: Okay. For the hand and  
25 frisk we'll be working with USAID here in the embassy

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1 and Rick will probably also contact you just to verify  
2 pickup points, and the additional logistics and the  
3 verified timing.

4 RICK NIELSON: Very good.

5 BRUCE BOVER: Any further thoughts on this  
6 item?

7 ROGER HERLINGER (phonetic): This is Roger  
8 Herlinger (phonetic). I'm the chief of the Deployment  
9 Management Branch here at US PACOM. I'd like to add a  
10 couple of things on this if I may. Over.

11 BRUCE BOVER: Yes, sir.

12 ROGER HERLINGER: With respect to a  
13 military airlift solution for moving the friskers out  
14 of Canada, normally the minimum amount of -- in terms  
15 of short tons, we can get common user airlift out of  
16 US TransCOM (phonetic) for in the range of 15 short  
17 tons or more.

18 So, based on the size of the load we have  
19 here, eight and a half short tons, it falls below the  
20 minimums that are normally used for a C-17.

21 There are processes and procedures for  
22 doing a special assignment, airlift mission that would  
23 allow us to move less than the normal standard minimum  
24 quantities.

25 A couple of issues for everyone to

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1 understand on this is that a C-17 that would be  
2 operating from -- from probably the Midwestern United  
3 States or Southern Canada to Japan, depending on  
4 whether it's charged at the DOD rate.

5 In other words, this is identified as a  
6 DOD requirement or a non-DOD US Government requirement  
7 generates the bill for that. It's two different  
8 rates.

9 Just to give you an estimation, at the DOD  
10 rates, if we were to use the special assignment  
11 airlift mission method, we're basically renting that  
12 C-17 for this mission at a cost of approximately  
13 \$250,000 for the mission.

14 If this is determined to be a non-DOD, but  
15 US Government mission, the rate for that C-17 is -- is  
16 a little over \$400,000 to deliver this approximately  
17 8.5 short tons of gear, so that may be a consideration  
18 for everyone.

19 The other thing to understand is that,  
20 once we have a validated requirement as a DOD mission  
21 to move this stuff, irrespective of who's paying for  
22 it, we're looking at normally four to six days from  
23 the time that requirement is validated before we'll  
24 actually be able to get an aircraft on the ground to  
25 pick up the load. Over.

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1 BRUCE BOVER: Okay. Thank you for the  
2 additional thoughts.

3 Anyone else?

4 MALE PARTICIPANT: Just one comment on  
5 that. I think the weight is higher than that. I --  
6 on the C, we're talking about 14 friskers at 850  
7 pounds apiece.

8 RICK NIELSON: We're talking about 20,  
9 two-zero.

10 MALE PARTICIPANT: All right. Well, the--

11 MALE PARTICIPANT: For the most recent.

12 MALE PARTICIPANT: Okay. The worksheet  
13 says 24 right now.

14 MALE PARTICIPANT: That's what I had, 20  
15 at 850 pounds is 8.5 short tons.

16 MALE PARTICIPANT: Okay.

17 MALE PARTICIPANT: Okay. So, Commander  
18 Mercer, you were talking about going through the  
19 criteria and how to get this stuff done. That's got  
20 to be one of these criteria that is looked at for when  
21 they're determining the appropriate transportation  
22 mode, correct?

23 LT. COMMANDER MERCER: Yes. It sounds  
24 like it. That's going to have to be included.

25 MALE PARTICIPANT: Okay. So if you have

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1 that criteria in front of you and you can share that  
2 with the USID -- or if somebody can share that with  
3 the USID folks I would -- that may be helpful if  
4 that's some written criteria.

5 LT. COMMANDER MERCER: Okay. I'll have to  
6 get with the 4 to get the specifics on that but, yes,  
7 we -- we can do that.

8 MALE PARTICIPANT: It just makes sense.

9 COLONEL PAT WAHL: Hey, this is Colonel  
10 Wall again. I have Jeff Lowe (phonetic) here, one of  
11 our transportation specialists.

12 You know, there is a certain criteria, a  
13 minimum short tons and/or packs count. For us to  
14 simply schedule to work in a bird (phonetic), if  
15 there's a waiver needed for that, then we send that  
16 back to PACOM and they've got to go to TransCOM, and  
17 it's TransCOM's approval to waive that minimum  
18 requirement.

19 So, it can be done, but it's got to go  
20 back to TransCOM.

21 MALE PARTICIPANT: That minimum  
22 requirement is 15 short tons?

23 COLONEL PAT WAHL: Correct.

24 MALE PARTICIPANT: Okay. So that's got to  
25 get factored in any decision.

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1 COLONEL PAT WAHL: That's correct, if it's  
2 going to mil air.

3 ROGER HERLINGER: This is Roger Herlinger  
4 again. What the colonel is saying is true. We can  
5 request a waiver, but the other process is -- is to --  
6 we can move any -- any amount as long as we do it as a  
7 special assignment airlift mission.

8 But again, in either case, we're probably  
9 paying the full cost of a full C-17 for the mission.  
10 So, the quantity is not that big a hang-up as just  
11 understanding the cost issues and the amount of time  
12 that it actually will take to secure the airlift, to  
13 set expectations so everyone understands that.

14 MALE PARTICIPANT: The inefficiency of  
15 that.

16 ROGER HERLINGER: Yes. I guess the point  
17 being that, at those rates, the commercial option for  
18 the both timeliness and cost, you know, ought to be  
19 explored before we just arbitrarily say we're going to  
20 move it at Government -- with Government airlift.

21 BRUCE BOVER: Okay. So the default should  
22 be commercial -- a commercial decision. Keep it  
23 simple.

24 ROGER HERLINGER: In this particular case  
25 I would say yes but, again, if we have, you know,

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1 heavier, larger amounts or larger in size  
2 dimensionally that, you know, don't lend themselves to  
3 a commercial solution, then certainly that's where --  
4 where military airlift would come in and be able to  
5 support better. Over.

6 BRUCE BOVER: Okay. Path forward on Item  
7 1 is established?

8 RICK NIELSON: It sounds like a commercial  
9 -- this is Rick Nielson. It sounds like commercial is  
10 -- is what is being suggested. Of course, that  
11 doesn't matter to us which is chosen.

12 If the path forward is similar in terms of  
13 approval that would be the important question that's  
14 still open in our minds.

15 MALE PARTICIPANT: And is that the request  
16 that Allen is going to make through USAID?

17 ALLEN BLAMEY: That is correct. I believe  
18 we still have to tie USAID into this with the  
19 information that we discussed here and have a decision  
20 made as to how it can be shipped.

21 So I think we're -- we're perhaps gone  
22 full circle back to moving it into USAID with the  
23 information we have now and let them look at the  
24 logistics and see the best way to ship and who is  
25 going to take care of the cost.

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1 BRUCE BOVER: Okay. And then, Allen, you  
2 have that action for the day?

3 ALLEN BLAMEY: That's correct.  
4 (Inaudible).

5 BRUCE BOVER: Okay. I suggest we look at  
6 Item 15 now which, I think, is a process question  
7 based upon what we just discussed.

8 SAL DOUD: Item 15 is just the aerial  
9 space item?

10 BRUCE BOVER: Yes.

11 SAL DOUD: Okay. This is Sal Doud up at  
12 DOE. I can talk about that for a minute. So, on a  
13 daily basis, weather permitting, we have both fixed  
14 and rotary winged assets flying and doing surveys.

15 The only outstanding item I'm aware at  
16 first that could be associated with this is the  
17 ambassador x-ray (phonetic) special hypothetical run  
18 and I'm going to need NRC's PMP assistance to help  
19 expedite this.

20 NRC still owes us the source term for  
21 that, and then we'll run the model and then we've got  
22 to get it cleared before we can send it to DOJ.

23 MALE PARTICIPANT: My understanding is  
24 that NRC has provided that source term.

25 SAL DOUD: I was down there in the

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1 emergency operations center this morning, talking to  
2 the lead on staff, and he wasn't aware of it having  
3 been received yet. So is there a way we can close the  
4 loop on that?

5 MALE PARTICIPANT: Yes. We'll get the --

6 RON SHERRY (phonetic): This is Ron --  
7 Sal, this is Ron in DOE Japan, and I'll follow up with  
8 Allen and the AMS team as well as with the NRC guys  
9 here.

10 SAL DOUD: Yes, I appreciate that.

11 MALE PARTICIPANT: With the PMP directors  
12 in here, that would help.

13 BRUCE BOVER: Don, can you tell us about  
14 whether we sent the information to NARAC (phonetic)?

15 DON COOL: Okay. This is Don Cool  
16 (phonetic). I'm director for PMT on the ship. In  
17 response to the request from the US ambassador to  
18 Japan, (b)(5)

19 (b)(5)

20 We have provided that to DOE MID OP  
21 (phonetic) and to NARAC. When I talked with DOE NIT  
22 (phonetic) this evening, they indicated they had not  
23 received a tasker (phonetic) from the White House

24 (b)(5)

25 (b)(5)

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1 So my understanding from that call was

2 (b)(5)

We

3 had advised (b)(6)

4 (phonetic) in the White House back on Wednesday of the  
5 requests that we'd received through our team in Japan.

6 MALE PARTICIPANT: Okay. I don't know how  
7 we're going to resolve that particular issue. (b)(5)

8 (b)(5)

9  
10 I could see how we might need their  
11 clearance to provide it to the ambassador, but I'll  
12 follow up with those guys tomorrow morning, myself,  
13 and see if we can't figure out who's holding that  
14 ball.

15 DON COOL: We would appreciate that. My  
16 understanding from DOE MID OPS (phonetic) is that  
17 they're not going to task NARAC (b)(5)

18 (b)(5)

19 And I know that for some of the previous  
20 source terms we've been asked to run we've gone  
21 through a number of interactions with DOE NIT in order  
22 to make sure there was a clear understanding of what  
23 was being run and its purpose before NARAC was  
24 actually tasked.

25 MALE PARTICIPANT: All right. I'll follow

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1 up in D.C.

2 BRUCE BOVER: Okay. Thank you. The item  
3 is still open.

4 Next would be Items 20 and 22.  
5 (Inaudible) Sal?

6 SAL DOUD: You know, just give me -- give  
7 me the subject, because I don't have the latest  
8 version that you guys do.

9 BRUCE BOVER: Sal, I think 20 -- is 20 the  
10 robotics?

11 MALE PARTICIPANT: It's use of radiation  
12 monitoring devices on the ground, mobile and  
13 stationary type.

14 MALE PARTICIPANT: Okay. Let's see. I  
15 provided INPO on that, suggesting that we should be  
16 able to close this particular issue because there's no  
17 -- there's no specific actionable request other than,  
18 you know, we've got field monitoring teams and we're  
19 coordinating our efforts with the DOD access as well,  
20 and I'm not sure there's a specific "ask" in this.

21 BRUCE BOVER: Ron, are you aware of any  
22 reason this should be open?

23 RON SHERRY: The specific actions that I  
24 could -- that I could associate with this would be  
25 some of the ground monitoring that the AMS team is

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1 doing, and we do have a limited number of requests  
2 from some of the ministries for -- for some high-  
3 purity germanium detectors.

4 MALE PARTICIPANT: Yes. That's on the  
5 list further down.

6 RON SHERRY: I think that's a different  
7 list. I think this is -- this is an example of one of  
8 the DOJ requests that's never really been fully  
9 clarified or elaborated on.

10 MALE PARTICIPANT: That's what I suspect.  
11 So my suggestion is we close this one until we get a  
12 specific actionable request and we've got the  
13 germanium detectors further down I'm going to talk  
14 about.

15 BRUCE BOVER: This is Bruce.

16 Allen, is that something you can check  
17 from your end?

18 ALLEN BLAMEY: I think this is something  
19 that DOE and NRC can follow up on. One of the things  
20 that the embassy is looking to do here is to -- to  
21 follow up with the crisis management team that the  
22 Japanese have organized to go back to them with a  
23 consolidated list and to validate the requests that  
24 have been made.

25 We have a number of different lists that

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1 we're dealing with. There are overlaps. There are  
2 redundancies and conflicts. There's a lot of need for  
3 clarification and the embassy is working on putting  
4 together a consolidated list that says all the  
5 requests from the Japanese government so we can go  
6 back to them and figure out which one of these things  
7 are, indeed, actionable, which ones can be closed and  
8 which ones need to be followed up on.

9 And my understanding is that we are going  
10 to try to begin that process when we have the next  
11 meeting with Mr. Hosono (phonetic) and the Japanese  
12 crisis management team on Monday.

13 MALE PARTICIPANT: I told them how  
14 (inaudible).

15 MALE PARTICIPANT: (Inaudible) I don't  
16 really know --

17 ALLEN BLAMEY: This is Allen Blamey with  
18 the Japan team. That makes a lot of sense to us as  
19 well as -- long talks about it. We've had some  
20 similar issues here and we go back and look at the  
21 items that have been requested, was it just  
22 information, or did they need follow up from that  
23 information to -- for support.

24 So I think that's one of the efforts that  
25 we've seen here over the last couple of days and all

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1 of the different lists that are floating around. As  
2 far as the specific item -- and I think Bruce had  
3 requested does the NRC want to look into this and try  
4 and capture it.

5 My response to that would probably be no  
6 at this point in time. I think Ron has the lead with  
7 -- with these items and we've been supporting Ron as  
8 he requested.

9 So, I'm concerned with some of these  
10 things. When we start to have two or three leaders  
11 that get involved. We start to diverge. We need to  
12 keep that one focus point and then we will support  
13 whoever the lead is on that to accomplish the mission.

14 RON SHERRY: Yes. Let me just clarify one  
15 thing there. I'm not exactly sure what this thing is,  
16 but right now DOE's down on paper as having the lead,  
17 so I'll take the lead here to try to figure out what  
18 it is, or whether it can be closed out.

19 And then, once we have that answer, then  
20 we'll know how to better assign a lead.

21 ALLEN BLAMEY: Agree.

22 BRUCE BOVER: Okay. That would suggest  
23 leaving the item open for now.

24 RON SHERRY: Correct.

25 BRUCE BOVER: Okay. Move on to Item 18.

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1 MALE PARTICIPANT: Okay. And this is the  
2 speedy simulation item. I'm going to need some help  
3 here because I really don't know what it is that DOE  
4 needs to do on this or who would be doing it.

5 MALE PARTICIPANT: Let me see if I can  
6 address that. The -- let me just check. Yes. So the  
7 AMS team, I know this was -- I think it was Dan  
8 Bloomenthal and Allen Remick (phonetic).

9 I don't know whether any of the NRC team  
10 was with them, but they had a meeting with METS  
11 (phonetic) yesterday, and that would have been on  
12 Friday the 1st, where they discussed the -- the idea  
13 of comparing models between METS, speedy system and  
14 NARAC.

15 So this is something, again, that  
16 basically in response to direction from Washington and  
17 the ambassador, that we should do this. We are  
18 already sharing raw data from the AMS measurements.

19 We're sharing the results of the AMS runs  
20 as those are available, and the next step, then, was  
21 to begin to engage with the -- with the Japanese  
22 modelers who put out the speedy simulations and to  
23 begin a process of comparing our models with the  
24 Japanese, and so that's -- that's basically the status  
25 right now, to the best of my knowledge.

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1           The -- there hasn't been any models shared  
2 as yet, or at least not the NARAC models, but that is  
3 a process that's beginning.

4           MALE PARTICIPANT:       All right.       I  
5 appreciate that clarification. I'll do the match-  
6 making between NARAC, then, and the Japanese POC's and  
7 hopefully we can report on this later in the week.

8           MALE PARTICIPANT: Okay. This is -- as I  
9 understand this, this is running through Dan and the  
10 AMS team here.

11          MALE PARTICIPANT: All right.

12          BRUCE BOVER: Okay. Thank you. Let's  
13 move on to Item 19. This is the germanium detectors.  
14 I know that our resources in Japan have loaned one of  
15 the detectors and is providing training to the  
16 Japanese and they found a source, apparently, to buy  
17 four more.

18          Other than that, I don't have any other  
19 news to report.

20          MALE PARTICIPANT: Let's see if I have  
21 anything else on that. There are at least -- there  
22 are requests from at least three Japanese ministries  
23 for germanium detectors.

24          One is -- let's see MHLW, the health labor  
25 and welfare have requested detectors for screening

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1 drinking water samples and we've agreed to provide up  
2 to two sensors to MHLW.

3 Tentatively, we've agreed to provide one  
4 germanium detector to the Ministry of Agriculture,  
5 Forest and Fisheries for soil samples, but there's  
6 still, I think, some further discussion to confirm  
7 that.

8 And then -- then finally TEPCO had asked  
9 for a high-purity germanium detector to use at the  
10 Daiichi Plant, but we declined that because the  
11 radiation levels there would have saturated it.

12 Now, however, I understand that there may  
13 have been a clarification where they actually want to  
14 use that at the Dynee (phonetic) Power Station a few  
15 kilometers down the coast.

16 So I think there may still need to be some  
17 clarification there. But at a minimum, I think there  
18 are firm requests from MHLW and the Agriculture  
19 Ministry, and those are being followed up on.

20 RICK NIELSON: One thing to add. This is  
21 Rick Nielson from INPO. We received a request for  
22 some suggestions for commercially-available detectors  
23 for -- for determining strontium 90 content in the  
24 soils, and we did provide those.

25 There's no further action, other than just

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1 providing that information. But that may be related  
2 to what you're talking about here as well.

3 MALE PARTICIPANT: I believe there's --  
4 there's been a lot of discussion -- I don't have a lot  
5 of the details on that, but with respect to strontium  
6 90, I think one of the first steps is that samples  
7 were being sent -- sent out of Japan for analysis. At  
8 least that was one approach that was being discussed  
9 earlier in the week.

10 BRUCE BOVER: Okay. It sounds like it's  
11 still open. Let's go to Item 21, which is the use of  
12 robotic devices for monitoring.

13 SAL DOUD: Yes. Jay provided the update  
14 yesterday, anticipating the shipment on April 5th, and  
15 I don't have any new information on that.

16 MALE PARTICIPANT: Sal, I was on the phone  
17 with Jay about an hour ago. We have -- the shipment  
18 is planned to go out next Tuesday, which I think is  
19 the 5th.

20 We have the information from the Ministry  
21 of Economy, Trade and Industry as to which part of the  
22 Japanese government is going to take title to the  
23 equipment.

24 We have the destination. Jay and NMSA  
25 will follow up with providing a pdf of the manifest

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1 showing the specific items, weights, dimensions, et  
2 cetera so that we can then follow up with the Japanese  
3 government to make sure that the shipment will arrive  
4 in good order at its destination.

5 So this action is not -- this action is  
6 still open, but we anticipate it, hopefully, being  
7 closed as early as possible next week.

8 BRUCE BOVER: Thank you for that. Let's  
9 move on to Item 20.

10 MALE PARTICIPANT: I have a quick --  
11 excuse me. I have a follow-up question. I heard some  
12 talk that Dr. Murphy is planning to come into Japan.  
13 Is that still the case?

14 MALE PARTICIPANT: The only information I  
15 have about -- this is Dr. Murphy at A&M, at Texas A&M.

16 MALE PARTICIPANT: Correct. It's in the  
17 (inaudible).

18 MALE PARTICIPANT: I received information  
19 from -- I guess from industry, from INPO, pass that on  
20 to -- to the NIT, and the last information I had was  
21 that they were following up to contact Dr. Murphy, but  
22 I don't have any further status beyond that.

23 RICK NIELSON: I know -- this is Rick  
24 Nielson. I know that she's been contacted by  
25 Westinghouse, and Westinghouse has, I think, four

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1 UAB's that -- I believe that they have contacted her  
2 to actually operate.

3 That's not a fact, but I feel pretty  
4 firmly that that's going to -- that that has happened  
5 or is happening.

6 SAL DOUD: I also -- this is Sal. I also  
7 know she's been in touch with Derrick Wadsworth at  
8 INEL (phonetic), who's a subject matter expert where  
9 the Callen (phonetic) and the M-2 are coming from.

10 I know they've been corresponding, but I  
11 don't -- I don't know anything about her travel to  
12 Japan.

13 RICK NIELSON: If that's important I can  
14 follow up and get an answer to that pretty easily, but  
15 I don't -- I don't know that it's really critical to  
16 know that.

17 RON SHERRY (phonetic): Yes. One further  
18 point there. I think DOE is -- this is based on the  
19 phone conversation I had with Jay Tildon (phonetic) a  
20 short while ago this morning.

21 DOE is looking into sending two people.  
22 One would be a robotics expert. The other would be an  
23 expert with the hardened cameras that we'll be sending  
24 in a shipment.

25 The travel hasn't been approved yet but --

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1 but I do not know who those people would be, but plans  
2 are being made to essentially send a couple of people  
3 along with the equipment shipment.

4 So we'll have more information on who  
5 those people would be shortly.

6 MALE PARTICIPANT: And is that Allen  
7 that's doing the talking?

8 RON SHERRY: That's Ron Sherry (phonetic).

9 MALE PARTICIPANT: Oh, sorry, Ron. I  
10 didn't recognize your voice.

11 RON SHERRY: I probably just need another  
12 cup of coffee.

13 MALE PARTICIPANT: I need a beer. That's  
14 what I need.

15 RON SHERRY: One other clarification also  
16 on the -- (b)(5)

17 (b)(5)

18  
19 DOE is focusing on the ground-based robots  
20 and the hardened cameras. (b)(5)

21 (b)(5)

22  
23  
24  
25 MALE PARTICIPANT: I think that's

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1 consistent with our recent discussions.

2 BRUCE BOVER: Okay. So Item 21 has a path  
3 forward with items. (b)(5)

4 (b)(5) Or was that just "Use of  
5 data" in Item 22?

6 MALE PARTICIPANT: The unmanned helicopter  
7 item, this is a slightly different issue. (b)(5)

8 (b)(5)

9  
10 TOM BOVOSO: This is Tom Bovoso, Naval  
11 Reactors. Lieutenant Commander Mercer, can you talk  
12 to this one?

13 When I talked to Captain Capria (phonetic)  
14 recently, he said what is needed is (b)(5)

15 (b)(5)

16  
17 LT. COMMANDER MERCER: Sir, there's a  
18 discussion that's ongoing. (b)(5)

19 (b)(5)

20  
21  
22  
23 So, there is an ongoing discussion about  
24 that. I'm not sure if that's what Captain Capria  
25 meant when he spoke with you.

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1 TOM BOVOSO: Well, I think at the time  
2 that I spoke with him it was a generic request (b)(5)

3 (b)(5) without understanding what the specific need  
4 was.

5 So, it seemed like there was a --  
6 something required of either the US technical support  
7 team or the government of Japan (b)(5)

8 (b)(5)

9 One thing I heard was the ability to  
10 determine the status of the spent fuel pool.

11 LT. COMMANDER MERCER: Yes. I've heard  
12 that one as well, so I guess what we need here is a  
13 list from the US technical side, like you said, we  
14 have in Japan of what they are looking for.

15 I believe our meeting that we're having  
16 today is more on the lines of what information is DOD  
17 looking to have, but I can follow up on that for you.

18 AL SHAFFER (phonetic): This is Al Shaffer  
19 (phonetic) from Tokyo. That is a correct statement  
20 about regarding the spent fuel pool levels and status.

21 That was discussed at a cabinet meeting on  
22 March 24th, and that was the (b)(5)

23 (b)(5)

24  
25 RON SHERRY: And just -- this is Ron

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1 Sherry. The -- I recall that some -- those  
2 conversations, as well. The idea of also having an  
3 eye on the spent fuel pool to evaluate -- to visually  
4 evaluate the condition of the pool is one of the  
5 purposes of the Japanese request for video cameras,  
6 for the hardened gamma cameras.

7 My understanding is that two of the  
8 radiation hardened cameras that DOE will be providing  
9 next week will be suitable for underwater and the  
10 Japanese are discussing the idea of suspending a  
11 camera from the concrete pumper truck crane, the so-  
12 called giraffe, to look down on the pool.

13 So what you -- what we have is, is an  
14 objective of visual surveillance of the spent fuel  
15 pool to ascertain the status and conditions, water  
16 level and so forth, and they are looking at multiple  
17 -- multiple pathways to achieve that, whether it's  
18 through the use of cameras mounted, suspended from a  
19 crane or otherwise suspended over the building (b)(5)

20 (b)(5)

21 BRUCE BOVER: The next step on this  
22 belongs to -- is the DOE still going to work this  
23 item?

24 RON SHERRY: DOE is providing the video  
25 surveillance. I, personally -- personal opinion from

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1 Ron Sherry is that it would be that we may need to,  
2 again, (b)(5) -- and the  
3 specific objective that they are going to serve, and  
4 then that is -- that's something that -- that's a  
5 process that DOE could certainly participate in.

6 Certainly, NRC, I think, insofar as its  
7 addressing the reactor and the spent fuel pool issues  
8 would have a major input into that conversation with  
9 the Japanese as well.

10 My personal opinion. Allen, do you agree  
11 with that?

12 ALLEN BLAMEY: Yes. And I know we've had  
13 our work. I believe we have one person in the working  
14 group as well, but those are going to be the key  
15 aspects of what we're looking at, is probably, number  
16 one, level of spent fuel pool and if you can give us a  
17 better understanding of the damage condition of the  
18 reactors.

19 RICK NIELSON: It might be worth  
20 developing a better request statement on that. That  
21 note there that the item's unclear and not actionable  
22 is a good one. It's hard to tell what this is really  
23 asking.

24 ALLEN BLAMEY: Personally, I think Item 22  
25 was really just the fact (b)(5)

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1 (b)(5)  
2  
3  
4  
5

6 MALE PARTICIPANT: I think the (b)(5)

7 (b)(5)

8 (b)(5)

so that's where the definition of the  
9 requirement comes into play.

10 It seems like one of the two of you in the  
11 embassy ought to take the lead to go get a clarified  
12 requirement.

13 MALE PARTICIPANT: Yes. We'll follow up  
14 with that here between -- at the embassy between VC  
15 (phonetic) and NRC. I know in the robotics discussion  
16 where we've been talking also about the radiation  
17 hardened cameras, you know, we -- we really debated  
18 just how best to put eyes on the -- on the interior of  
19 those buildings, and we -- in our approach we want to  
20 find what's going to be the most efficient and cost-  
21 effective way of doing something.

22 And if we can achieve something -- if we  
23 could achieve what we want by using fairly simple  
24 video devices that, you know, once they're burned up  
25 by the radiation they can simply be thrown away and

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1 you go up to Radio Shak and buy another one, then --  
2 you know, we don't want to necessarily deploy more  
3 assets than we actually have to in order to solve the  
4 problem.

5 So I think it goes back to what is the  
6 problem and just what is the exact capability we need  
7 to solve it, and the Japanese are going to have to  
8 help us to find that.

9 BRUCE BOVER: Okay. That will be worked  
10 by folks there in the embassy doing the DOE and NRC?

11 MALE PARTICIPANT: Correct.

12 BRUCE BOVER: Okay. Let's move on to Item  
13 23. This is the use of the unmanned helicopter, the  
14 K-Max (phonetic).

15 ALLEN BLAMEY: Based upon a discussion at  
16 lower levels in the embassy, it appears that that's no  
17 longer going to be needed. I would like to verify  
18 that with some higher-level people in the embassy just  
19 to confirm.

20 And Item number 2, I know, in discussions  
21 I had with INPO last night, (b)(4)

22 (b)(4)  
23  
24  
25

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1           So there may be other unmanned vehicles  
2           that currently Westinghouse is trying to bring into  
3           Japan to solve some of those issues.

4           MALE PARTICIPANT: Okay. Just remember,  
5           this one was put on the list originally because of its  
6           lift capability, not for -- so much for visual  
7           observation purposes.

8           MALE PARTICIPANT: Yes.

9           MALE PARTICIPANT: So I think that was the  
10          functional requirement that needs to be validated or  
11          determined and not -- no longer be necessary.

12          MALE PARTICIPANT: Yes. And with the  
13          people that I have spoken with, they were lower-level  
14          in the embassy, and that's why I wanted to verify at a  
15          higher level that the embassy has determined that it's  
16          no longer required. So I would leave this one open.

17          BRUCE BOVER: Thank you.

18          How about Item 24, this is the pumper  
19          system.

20          MALE PARTICIPANT: Yes. Let me move down  
21          here a second. Okay. On this one, my understanding  
22          is that the first train is installed and the train is  
23          really a pump with the appropriate piping to the  
24          reactor vessel, and there is discussion on redundant  
25          trains, and that's really additional pumps.

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1 My understanding at this point is the  
2 first train is installed and at this point in time the  
3 government of Japan does not see the need for the  
4 additional pumps, and my understanding, as well, is  
5 that military was going through and deobligating some  
6 of the pumps that were slated for the redundancy in  
7 the system.

8 RICK NIELSON: This is Rick Nielson with  
9 INPO. We had done some work coordinating with Bectel  
10 on this, and they still have the second train in  
11 Australia.

12 I'm not real clear as to its readiness to  
13 ship, but if it's not needed, that needs to be  
14 communicated to Bectel. So, if you can get back to me  
15 on that I can -- I can make that link.

16 MALE PARTICIPANT: Okay, Rick. So I'll  
17 take an action to get back with you and confirm.

18 BRUCE BOVER: Thank you. It looks like  
19 Item 25 is -- is open, but it's probably covered by  
20 Item 1, so we'll clean up the list.

21 The next one is Item 27, the use of iodide  
22 preparations. It's assigned to USAID. Anybody help  
23 me with that?

24 RICK NIELSON: I think what -- this is  
25 Rick Nielson. I think what this one may have been, it

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1 started out with a request for potassium iodide and  
2 the industry had some tablets available, but I think  
3 that US Health and Human Services had -- had some  
4 liquid form in surplus and they were going to provide  
5 that.

6 That's the extent of my understanding of  
7 it, but did that strike a chord with anyone else?

8 MALE PARTICIPANT: I remember hearing that  
9 about seven to ten days ago.

10 RICK NIELSON: Right.

11 ALLEN BLAMEY: This is Allen. I don't  
12 have much more to add other than somebody had  
13 mentioned to me in passing that the total quantity  
14 that was shipped had filled up one of the large cargo  
15 planes or nearly filled it, so that leads me to  
16 believe that this is somewhere in the logistics chain  
17 at this point in time in preparation to move from  
18 point A to point B.

19 MALE PARTICIPANT: Well, I would suggest  
20 we close it because I don't see an action for this  
21 group.

22 MALE PARTICIPANT: That's the kind of  
23 thing that ought to be closed in Japan as, you know,  
24 need-met or no longer required. Right?

25 ALLEN BLAMEY: Well, I -- this is Allen.

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1 I have no problems closing it because -- let me verify  
2 it, but I believe that is on the embassy's list, and  
3 that's coming directly from, I believe, USAID and CDC  
4 were the two that were trying to make that happen.

5 Let's see. Because it's definitely not --  
6 at this point in time it was not an NRC activity and I  
7 do not believe DOE was involved with it, either.

8 BRUCE BOVER: Okay. We'll close it. Next  
9 is Item 28, the use of the extinguishant/coolant,  
10 nitrogen, no assignment. Anybody have insights on  
11 that one?

12 ALLEN BLAMEY: This is Allen Blamey with  
13 the NRC team in Japan. Number one, we are not sure  
14 what that was. That was requested several days ago  
15 and it's gone silent after that.

16 But I believe the way the -- path forward  
17 on this one, we had talked earlier about getting back  
18 with the government of Japan and going through these  
19 and trying to refine them or move them to actionable  
20 items.

21 I really see that's the only thing that  
22 can be done here because we've gone back so far,  
23 working with NISA (phonetic), and we cannot -- at  
24 least as of this point in time, we do not know the  
25 specific -- you know, what -- what they were

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1 requesting.

2 MALE PARTICIPANT: So will you follow up  
3 on that one for us?

4 ALLEN BLAMEY: Yes. I'm not sure we're  
5 going to get any more details other than that. Maybe  
6 we'll just end up closing it if that trail goes dry.

7 MALE PARTICIPANT: Fair enough. Thank  
8 you.

9 BRUCE BOVER: Next one is 29, plastic  
10 bottles of drinkable water.

11 ALLEN BLAMEY: I would make the  
12 recommendation that we do the same as we did with the  
13 potassium iodide, and I believe that one is on the  
14 embassy list as well.

15 Yes, that's also on the embassy list, so  
16 it's being tracked through the embassy. I'd recommend  
17 closing it on this one.

18 BRUCE BOVER: Thank you. Will do.

19 Item 30 is temporary holding tanks for  
20 removing contaminated water.

21 ERIC CASSAL (phonetic): Eric Cassal  
22 (phonetic). Let me try to address the next three  
23 items as a group. And, first, let me acknowledge that  
24 BOD is also working some of this independently.

25 I just put a call in to Admiral Gregory's

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1 Office and spoke to one of her captains on her staff.

2 We traded email messages and I'm going to send --  
3 sent the Admiral a message following this meeting on  
4 what we're doing.

5 Sorry. I just lost my earphone and had to  
6 get a new headset. So, I'm going to send out a  
7 message outlining what we're doing and our points of  
8 contact so we can certainly coordinate this effort.

9 But from our perspective, we provided a  
10 white paper to the Japanese outlining a strategy, some  
11 options and equipment sort of dealing with this issue,  
12 get some initial feedback.

13 If they are interested in a system that we  
14 talked about that's available at the Savannah River  
15 Site, then that will start, and the wheels turning --  
16 turned on how we can get that equipment packeted up  
17 and ready to ship.

18 So, with the early phases of that, at  
19 least we have a path forward based on iterating back  
20 and forth with the Japanese on these topics.

21 BRUCE BOVER: Okay. Thank you. So that's  
22 -- any -- any questions on 30, 31 and 32?

23 (No response.)

24 BRUCE BOVER: Next up, 33.

25 MALE PARTICIPANT: Hold on. This is

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1 Hochair (phonetic) from Tokyo. We think that Shak  
2 Toshiba (phonetic) has a contract from TEPCO to work  
3 on Item 32. I'm going to get the specifics to verify  
4 that, and we'll inform you in the next conference  
5 call.

6 BRUCE BOVER: Thank you.

7 Item 33 is the seeking NRC expertise on  
8 temporary shielding options.

9 MALE PARTICIPANT: Yes. We've gone  
10 through and have done a gross review, basically  
11 looking at the fuel pool for structural integrity, and  
12 it's more of a support of the fuel pools with water or  
13 without water, and will the superstructure be able to  
14 handle the load.

15 Based upon that analysis we did, we  
16 believe that we do not have sufficient information to  
17 go through and determine if the Japanese want to  
18 provide additional shielding at certain locations if  
19 the building will be able to handle significant  
20 shielding loads.

21 So, at this point in time, we were  
22 planning to have discussions back with Japan to see  
23 what the next step would be. We do not plan on doing  
24 a detailed evaluation of putting shielding throughout  
25 the building.

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1 BRUCE BOVER: Okay. Thanks, Al.

2 Item 34, the request for survey meters and  
3 dosimetry and shielding masks.

4 MALE PARTICIPANT: This is Al. I'm going  
5 to ask Ron to address that, if he can.

6 MALE PARTICIPANT: Yes. I have received  
7 this -- the questions about this request which came in  
8 fairly early in the process, and I have reached out to  
9 Joe Hugart (phonetic), who is the health and safety  
10 expert at the embassy with the DART on how to follow  
11 up on this.

12 This -- these -- these items came through  
13 in the same request with the request for the  
14 protective suits. That one has been addressed and  
15 these are outstanding, and I'm still trying to run  
16 down a resolution for that.

17 BRUCE BOVER: Thanks, Ron.

18 MALE PARTICIPANT: For these items, do we  
19 have these source identified for these back in the  
20 States? Potential source?

21 MALE PARTICIPANT: I understand a  
22 potential source has been identified for -- for the --  
23 for, I think, 2000 dosimeters. It's a commercial  
24 firm. I don't have very much status after that.

25 RICK NIELSON: This is Rick Nielson. The

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1 nuclear industry supply chain can -- can source these.

2 If that's what's desired, the supply chain can source  
3 them.

4 MALE PARTICIPANT: Okay. So --

5 RICK NIELSON: I can tell you --

6 MALE PARTICIPANT: -- the next action.

7 RICK NIELSON: I'd be pleased to take an  
8 action to look into this.

9 MALE PARTICIPANT: Yes. That's on the  
10 sourcing side, and then who's -- somebody who's going  
11 to put a bull's eye on somebody's chest to run it  
12 aground?

13 ALLEN BLAMEY: Hey, Ron, would this be --  
14 Ron Sherry. This is Allen Blamey. Would this be as  
15 simple as, once we have the source, to go to USAID and  
16 say, "Here it is. Are you going to pay for it? Yes  
17 or no?" If the answer is yes, move forward with  
18 ordering?

19 MALE PARTICIPANT: Well, I personally  
20 think that's reasonable. They -- they moved out very  
21 quickly on the protective suits and so I should think  
22 that it -- they would have the mechanism to get the  
23 stuff over here and get it to where it's needed once  
24 the source was identified.

25 So I'm -- as I said, I'm -- I'm reaching

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1 out to the DART team to try to follow up on this. Any  
2 other information which can be provided in parallel  
3 regarding sources, I should think would be helpful  
4 regardless of who has the action to execute delivery.

5 ALLEN BLAMEY: Okay. Excellent. Then,  
6 with that said, Rick, if you can move ahead in looking  
7 at sources in the United States, but if you're able to  
8 understand what sources would be available in Japan,  
9 if any, you know, if you have any information in that  
10 area, if you could provide that as well, and then I  
11 will work with getting that information to Ron as well  
12 as the USAID team here to see if we can move forward  
13 on the next step.

14 RICK NIELSON: Good. So what we'll do is,  
15 we'll source this and come up with the source  
16 information as well as prices and this should be  
17 really a pretty quick turnaround item.

18 I don't know our capabilities of reaching  
19 into the supply system of Japan, but I'd hate to  
20 underestimate our capabilities here. They are pretty  
21 amazing, in my opinion.

22 But we should get an answer to this pretty  
23 quickly.

24 ALLEN BLAMEY: That would be good. And  
25 if, by chance, you are able to reach into Japan and

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1 understand what's here, I think that could speed the  
2 process up significantly.

3 RICK NIELSON: Right. So, at the very  
4 least, we can help with the decisionmaking process in  
5 terms of this is how much it's going to cost to  
6 provide this, just in terms of acquiring it, and we  
7 may be able to go beyond that.

8 ALLEN BLAMEY: Okay. Thanks.

9 MALE PARTICIPANT: Rick, is there also a  
10 way that, when you get that sourcing information, if  
11 you could give us a rough estimate on lead time as  
12 well, please?

13 RICK NIELSON: Will do.

14 MALE PARTICIPANT: Thank you.

15 BRUCE BOVER: Okay. Well, thank you for  
16 the -- that's the end of the published list of open  
17 items. Are there other items that we need to talk  
18 about on this call?

19 ALLEN BLAMEY: This is Allen Blamey. And  
20 one of the things that I've been working with the  
21 embassy staff here, we're trying to consolidate to an  
22 embassy list, which is a little bit more broad than  
23 what we have on the particular list that we have been  
24 going through, but I'd like to try and perhaps migrate  
25 some of the open items that we have over to that list.

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1 There's duplicates and then there are some other odd's  
2 and ends that are not on the list.

3 My feeling at this point in time, and I'm  
4 going to just throw this out for comment, but my  
5 thought would be, the call that we had set up here may  
6 aid the embassy moving forward in trying to help them  
7 better manage these particular items.

8 So therefore, I would be proposing that  
9 this team consider, you know, over time, over the next  
10 couple of days if we could integrate the embassy  
11 staff, the people that are actually going to be  
12 managing this list, probably try and get them on line  
13 more and do more of a turnover and maybe take a more  
14 leadership role in this, as they start to get back up  
15 to speed.

16 MALE PARTICIPANT: (Ron) Yes. This is  
17 Ron, and I would agree that, with the effort that the  
18 embassy is making to prepare a single consolidated  
19 list that we could use to validate these requests with  
20 the Japanese government, that it would make sense  
21 that, if we're going to continue to have a call such  
22 as this, that we get those embassy people who are  
23 going to be managing that consolidated list involved  
24 in the discussion with all the other organizations who  
25 are -- who are responding to the specific actions.

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1 MALE PARTICIPANT: If we could get a USAID  
2 person involved, that would be helpful, as well.

3 MALE PARTICIPANT: Okay. Good.

4 BRUCE BOVER: Any other new items?

5 LT. COMMANDER MERCER: This is Lieutenant  
6 Commander Mercer. One thing that might be helpful,  
7 and I kind of touched on it was Item 34. It's for --  
8 for items action if it has specific deliverables that  
9 we're offering to TEPCO and the government of Japan,  
10 but we haven't actually gotten them the formal  
11 request.

12 But if we could get some sense of what the  
13 lead times would be, I think that would be useful  
14 information to help frame the discussion with the  
15 Japanese. I think that might be a column to add to  
16 this spreadsheet. I'm not sure, but just -- just some  
17 food for thought.

18 ALLEN BLAMEY: Yes. I think that's good,  
19 and I know the one that the embassy is developing  
20 right now, I'm not sure that we have that on there,  
21 but I think that's a good point for consideration.

22 LT. COMMANDER MERCER: Yes.

23 MALE PARTICIPANT: Yes. Allen, yes. This  
24 is Ron. Yesterday, Bruce Howard and I had a  
25 conversation about that and I think the list -- the

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1 spreadsheet that the embassy is starting to use now  
2 has something like -- had a data field for either the  
3 date on which the item is needed, or the target date  
4 for which we are aiming to provide.

5 ALLEN BLAMEY: Okay. Good.

6 LT. COMMANDER MERCER: Good.

7 MALE PARTICIPANT: (Sal) Why don't we  
8 bring that up in our next call. This is Sal.

9 MALE PARTICIPANT: I'm looking at tomorrow  
10 night, same time. My time. Same time for the phone  
11 call tomorrow.

12 MALE PARTICIPANT: Okay. Same time  
13 tomorrow for the phone call.

14 BRUCE BOVER: We will try to get the  
15 minutes out by eight a.m. my time, 0800. Then,  
16 everyone, again, this was good today about providing  
17 comments on that and allowed us to update the list  
18 prior to this -- this call.

19 And it's very helpful and I thank everyone  
20 for -- for participating and offering comments and  
21 we'll chat with you tomorrow.

22 MALE PARTICIPANT: All right.  
23

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

Title: Japan's Fukushima Daiichi ET Audio File

Docket Number: (n/a)

Location: (n/a)

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Pages 1-161

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 SATURDAY

7 APRIL 2, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: I've got Chuck Casto coming up on the bridge.

SCOTT MORRIS: Chuck, are you there?

CHUCK CASTO: Yes.

MALE PARTICIPANT: How are you doing?

CINDY CARPENTER: How are you doing?

CHUCK CASTO: Hi.

CINDY CARPENTER: Scott and Cindy

CHUCK CASTO: Cindy and who?

CINDY CARPENTER: Cindy Carpenter, hi.

SCOTT MORRIS: Scott Morris. How are you doing Chuck?

CHUCK CASTO: Oh, hey, Scott and Cindy. I couldn't hear. Okay, how's everything going back there?

CINDY CARPENTER: Good. Good. Kind of quiet this evening.

CHUCK CASTO: Good. We like quiet.

CINDY CARPENTER: Well, yes, I'm sure you do.

CHUCK CASTO: Quiet is a good thing.

CINDY CARPENTER: How are you doing and what can we do to help you?

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1 CHUCK CASTO: Well, it's not to help. I  
2 just wanted to pass on a message, and from Ambassador  
3 Roos.

4 CINDY CARPENTER: Okay.

5 CHUCK CASTO: And, to the whole team back  
6 there. And you know, about what a -- a wonderful job  
7 he thinks you all are doing, and that he has gotten  
8 feedback from some credible sources that know the  
9 Japanese embassy, that they believe it's been the  
10 Japanese embassy, American embassy's finest hour in  
11 all the years it's been here.

12 So I think that's a real tribute to  
13 everybody back there that has done a great job. And  
14 I just wanted to pass on, you know, the thanks from  
15 Ambassador Roos.

16 SCOTT MORRIS: Great.

17 CHUCK CASTO: You know, he thinks a lot  
18 about -- he thinks a lot of the NRC and it's a lot of  
19 the work that is being done back there. We're just a  
20 face to him. But you know, the real work is being  
21 done, you know, back there and here, with the team.

22 But he, you know, expressed his gratitude  
23 to everyone that's working on the project, and if  
24 somehow you could pass that word back there to  
25 everybody that's, you know, working on it, I think it

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1 would be appropriate to do that.

2 SCOTT MORRIS: Absolutely. Thank you.

3 CHUCK CASTO: You know, he -- and when he  
4 says, you know, it's this embassy's finest hour, that  
5 means a lot, particularly, you know, they have been  
6 through the -- everything that they have been through.

7 So, but that's a real tribute, to say it's been the  
8 American embassy's finest hour here.

9 So everybody should know that and know how  
10 much he appreciates the work that has been done and  
11 will be done, and how much he has confidence in us.  
12 So if somehow you could craft that message or if you  
13 want me to write it up, and email it out, whatever,  
14 you know.

15 SCOTT MORRIS: You want to email it out?  
16 I mean we'll -- I mean, we can convey it, we can  
17 convey it through -- informally or formally or -- I  
18 mean, I don't know.

19 CINDY CARPENTER: Yes, I'm not sure the  
20 right --

21 CHUCK CASTO: Yes, give it some thought to  
22 how you think it should be conveyed.

23 SCOTT MORRIS: Okay..

24 CHUCK CASTO: You know, and probably, I  
25 was thinking, among other things, it should probably

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1 be conveyed in the status report.

2 CINDY CARPENTER: Right.

3 CHUCK CASTO: The sit rep, you know. That  
4 doesn't give it a warm and touching feeling, but you  
5 know, if you wanted to -- if you guys have some kind  
6 of team meetings and you want to convey it, and not  
7 from me, but convey it from you know, Ambassador Roos,  
8 I'm sure he would not mind if you, you know, said  
9 that, you know, he shared with the NRC, not he shared  
10 with me, I don't want to be in that.

11 SCOTT MORRIS: Right.

12 CHUCK CASTO: So you know I want you guys  
13 to be able to convey it. And I think it would be the  
14 best way to do it, you know, and lift the spirits back  
15 there and help people understand how much it means to  
16 him here. I don't want to be the, you know, I don't  
17 want to be the conveyer of the message necessarily.

18 CINDY CARPENTER: Okay, well we'll make  
19 sure that we pass that on, and --

20 SCOTT MORRIS: I think it might be good  
21 coming from Borchardt or from Virgilio.

22 CINDY CARPENTER: Yes, that's what I was  
23 thinking, maybe from the Chair and then maybe from  
24 Bill Borchardt.

25 CHUCK CASTO: Yes, yes. Borchardt or

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1 something, if he puts up a, you know, an immediate  
2 update I could probably feed him some words that he  
3 could put in one of his -- doesn't he do like a weekly  
4 update or something like that?

5 CINDY CARPENTER: He sends some  
6 (inaudible) he sends, something went out, probably  
7 about once a week right now.

8 SCOTT MORRIS: I tell you what I can do,  
9 is I can get a message crafted from the Ambassador,  
10 you know his press people, might, you know, get a  
11 quote from the Ambassador about his gratitude to the  
12 NRC and you know, send that to Borchardt and you know,  
13 whatever you guys think is the right thing to do.

14 CINDY CARPENTER: Well, that would be  
15 really great and then we'll make sure it gets into --

16 SCOTT MORRIS: Yes, send it to -- send it  
17 to the -- have them send it in here to the ops center  
18 and to the --

19 CHUCK CASTO: Right.

20 SCOTT MORRIS: Bill's actually winging his  
21 way to Vienna tomorrow.

22 CHUCK CASTO: Yes, right.

23 CINDY CARPENTER: Well this would be, I  
24 think that Mike Weber -- you know, Mike Weber and  
25 Marty Virgilio is acting, so -- and we'll make sure we

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1 pass this on to them.

2 CHUCK CASTO: I could probably have it  
3 crafted, so, like, it thanks the people in the ops  
4 center separately, and thanks the NRC globally, for  
5 their work, you know, that they've done, something  
6 like that. Does that resonate with you or do you  
7 think it should just go to --

8 SCOTT MORRIS: Yes.

9 CHUCK CASTO: the ops center or just go  
10 to, you know, the NRC in total? Whatever you think.

11 SCOTT MORRIS: We'll think about that. I  
12 mean, it's -- I think the whole agency would be good.

13 CINDY CARPENTER: Yes, I do too, because  
14 you know, for the people --

15 CHUCK CASTO: Everybody has been impacted.

16 CINDY CARPENTER: The people here are all  
17 working here in the ops center. There are people  
18 throughout the agency that are picking up their work.

19 SCOTT MORRIS: Picking up the load, yes.

20 CINDY CARPENTER: So everybody is working  
21 very hard to make sure that this is happening. So you  
22 know, Scott's here so there is somebody else picking  
23 up his workload.

24 CHUCK CASTO: Okay, so I'll craft  
25 something for -- from the Ambassador to Borchardt,

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1 Ambassador to the Chairman, probably is more  
2 appropriate.

3 CINDY CARPENTER: Right.

4 CHUCK CASTO: Or I don't know, I'll figure  
5 that out. But maybe if I have a Chairman briefing, if  
6 I -- I think I'm supposed to brief him in the morning.

7 SCOTT MORRIS: Yes, I was going to change  
8 subjects on you there a minute.

9 CHUCK CASTO: Yes.

10 SCOTT MORRIS: The -- we got some  
11 indication that you were giving a presentation along  
12 with NISA at this --

13 CINDY CARPENTER: Convention on nuclear  
14 safety. Are you going to be in it to give some sort  
15 of presentation?

16 CHUCK CASTO: No, no. Not at all. No.

17 SCOTT MORRIS: That was a garble --

18 CHUCK CASTO: No, I don't know where that  
19 came from.

20 SCOTT MORRIS: That was a garble --

21 CINDY CARPENTER: We understand that  
22 basically the Liaison Team received an email from Mr.  
23 Konai (phonetic) with NISA, and he asked about you  
24 making a presentation to the IAEA at the CNS.

25 CHUCK CASTO: (Laughs). That ain't

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1 happening.

2 (Laughter)

3 SCOTT MORRIS: Well we're glad to give you  
4 a laugh.

5 CINDY CARPENTER: All right.

6 CHUCK CASTO: Yes. Yes. That ain't  
7 happening, I can tell you that.

8 CINDY CARPENTER: Okay.

9 SCOTT MORRIS: With respect to the  
10 interactions with the Chairman, of course the Chairman  
11 is going to Vienna, and he is interested in  
12 maintaining a once per day contact with us here, but  
13 also with you.

14 So I think we were looking at just the  
15 7:15 in the morning call, 8:15 your time -- 8:15 in  
16 the evening time, like you, I guess we've been doing.

17 CINDY CARPENTER: Yes.

18 CHUCK CASTO: No, I've been doing -- no,  
19 I've been doing 7:30 in the morning here, which is  
20 6:30 in the evening there.

21 SCOTT MORRIS: Okay, I think we are --  
22 they were looking at proposing a 7:15 a.m. Eastern  
23 time, daily briefing with the Chairman, because that  
24 would be a reasonable, early afternoon for the  
25 Chairman, and basically everybody is awake.

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1 CINDY CARPENTER: In fact I think you  
2 already, you already -- my understanding is that you  
3 already call into the 7:15 a.m. here.

4 CHUCK CASTO: No, I don't call into the  
5 7:15.

6 CINDY CARPENTER: Eight o'clock?

7 CHUCK CASTO: No, because like I said, the  
8 only call I have with the Chairman is at 7:30 in  
9 Japan, which is 6:30 Eastern time, 6:30 p.m. Eastern  
10 time.

11 SCOTT MORRIS: Would you be amenable to an  
12 8:15 p.m. call, your time?

13 CHUCK CASTO: Yes, that would be -- yes,  
14 that would be 7:15 my time.

15 SCOTT MORRIS: Wait a minute. Now I'm  
16 confused.

17 CINDY CARPENTER: You're 13 hours ahead,  
18 correct?

19 CHUCK CASTO: Yes, I'm plus 13.

20 SCOTT MORRIS: So we were thinking -- we  
21 were thinking the 7:15 in the morning call here --

22 CHUCK CASTO: Would, okay, that would be  
23 8:15 p.m. my time.

24 SCOTT MORRIS: Right, and then that would  
25 only be, like, 1:15 for the Chairman in Vienna or

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1 whatever.

2 CHUCK CASTO: Right.

3 SCOTT MORRIS: So that would work out.

4 CINDY CARPENTER: Yes, he was thinking one  
5 phone call --

6 SCOTT MORRIS: Yes, one phone call, get  
7 everybody on, talk about what's happening and get off.

8 CINDY CARPENTER: Right, and the  
9 participants would be yourself, would be the Chairman,  
10 and then the ET director here at that time.

11 CHUCK CASTO: And that would be starting  
12 what day?

13 CINDY CARPENTER: Starting -- I think the  
14 Chairman is leaving for Vienna Monday, so it would be  
15 Monday -- Monday here, which is like Tuesday there, I  
16 think, right?

17 CHUCK CASTO: Yes, that would be --

18 CINDY CARPENTER: Monday evening your  
19 time, 7:15 a.m. our time.

20 CHUCK CASTO: Yes, that one is going to be  
21 hard because Monday night we have a cabinet meeting at  
22 7 p.m. and it will go, you know, until at least 8,  
23 8:30, which would be 8:15 -- which would be 7:15 your  
24 time. So it would be hard for me to make Monday night,  
25 Monday morning.

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1 CINDY CARPENTER: I think, 8 o'clock.

2 SCOTT MORRIS: What would work better? I  
3 mean the easiest --

4 CHUCK CASTO: Yes, 8 o'clock. Eight  
5 o'clock would be 9 o'clock.

6 SCOTT MORRIS: I'm sorry, say again Chuck.  
7 We missed that.

8 CHUCK CASTO: Eight o'clock your time  
9 would be 9 p.m. my time, which would be after, you  
10 know, our meeting would be over by then.

11 SCOTT MORRIS: That works for you. Okay.

12 CHUCK CASTO: Yes. Yes.

13 CINDY CARPENTER: Okay.

14 SCOTT MORRIS: We'll fly that one by the  
15 Chairman and I assume that he will be, you know,  
16 sympathetic to that. So --

17 CHUCK CASTO: Yes, that would be after the  
18 cabinet meeting, so if there was anything major that  
19 came up, you know, I'd have it to brief him with.

20 SCOTT MORRIS: That would be great. Okay.  
21 Well, we'll pass that by them and -- or him, and  
22 we'll confirm it via email or the next time we talk.

23 CHUCK CASTO: Okay, so I'm going to -- my  
24 action item is I'll get some words from the Ambassador  
25 on the great work that NRC is doing, and I'll get that

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1 to either Borchardt and/or Borchardt and the Chairman,  
2 cc the ops center.

3 CINDY CARPENTER: Okay. All right. Are  
4 there other things that we can help you with or assist  
5 you on?

6 CHUCK CASTO: Well, there's a zillion  
7 things, but no, I actually wanted just to call and  
8 convey that. I don't want to dilute it with anything  
9 else.

10 CINDY CARPENTER: Okay.

11 CHUCK CASTO: So, it was an important  
12 message, and it's -- I don't want to dilute it.

13 SCOTT MORRIS: Well, Chuck, as long as  
14 we've got you, let me just -- we heard early on that  
15 there was an issue with, I guess, your printer or  
16 something there.

17 CHUCK CASTO: Yes, we have constant  
18 battles with that printer, but Marco takes care of it,  
19 so I think he is fixing it.

20 SCOTT MORRIS: Okay, I was going to say,  
21 if you guys need help --

22 CINDY CARPENTER: Let us know.

23 SCOTT MORRIS: Let us know, I mean, we'll  
24 figure out how to get you a firm.

25 CHUCK CASTO: I know that IT support,

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1 Marco in the embassy, I don't know who conveyed that  
2 or why, but as far as I see, I mean Marco was actually  
3 sitting there, the embassy IT guy, was actually  
4 sitting there for hours this morning waiting for the  
5 printer to break, I mean that's the kind of service  
6 you get.

7 SCOTT MORRIS: Wow.

8 CHUCK CASTO: He sat there, he sat there,  
9 he said, you know, I'm going to sit here and wait  
10 until this -- until it breaks and then I'll see what  
11 it's doing. So that was this morning.

12 So I, you know, --

13 SCOTT MORRIS: Well, we got that somehow  
14 here and we were trying to figure out how we could  
15 help you. So -- if you don't need it, that's fine.  
16 Just let us know.

17 CHUCK CASTO: I'll check on it again, but  
18 I think we are getting all kinds of support on that.

19 SCOTT MORRIS: All right.

20 CHUCK CASTO: How's it going with you  
21 guys, all right?

22 CINDY CARPENTER: All right.

23 SCOTT MORRIS: It's all -- all is well.

24 CHUCK CASTO: Good.

25 SCOTT MORRIS: Spring has started --

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1 spring is starting to spring here.

2 CHUCK CASTO: Yes, we just noticed the  
3 cherry blossoms are out here. So -- the city's full -  
4 - you know the city is full of cherry blossoms.

5 SCOTT MORRIS: They haven't popped here  
6 yet.

7 CHUCK CASTO: Yes.

8 SCOTT MORRIS: All right.

9 CHUCK CASTO: They popped out today. All  
10 right folks. Have a good day.

11 SCOTT MORRIS: All right, bye.

12 CHUCK CASTO: Bye.

13

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the headquarters operations officer. Stand by for the industry consortium conference.

MALE PARTICIPANT: Good evening. This is the headquarters operations officer. I am going to go through roster playback.

MALE PARTICIPANT: NRC headquarter operations officer.

MALE PARTICIPANT: (Inaudible) Pacom.

KEVIN MULLIGAN: Kevin Mulligan, INPO, ERC.

RICK NIELSEN: Rick Nielsen, INPO.

MALE PARTICIPANT: Industry support team, Tokyo.

TOM VAVOSO: Tom Vavoso, Naval Reactors.

LIEUTENANT COLONEL CRAIG GADDIS: Lieutenant Colonel Craig Gaddis, joint staff JFOR.

MALE PARTICIPANT: United States Forces Japan.

MALE PARTICIPANT: Lieutenant Colonel (inaudible) (Indiscernible, possibly , "Price"), U.S. Pacific Command in concert with the radiation support team.

GLENN SOUTHERN: Glenn Southern, Naval

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1 Reactors.

2 MIKE WEBER: Good evening. This is Mike  
3 Weber here at the NRC. Welcome to the consortium call  
4 for April 2nd, now April 3rd in Japan. Thanks for  
5 joining us.

6 Start with the second item on the agenda,  
7 discussion of organizational issues, roles and  
8 responsibilities, my understanding is that work  
9 towards identifying another lead other than the NRC  
10 continues, and we are trying to get a variety of  
11 things in place to support that. That remains one of  
12 our primary objectives, to establish a new U.S. agency  
13 lead.

14 But in the interim, the NRC continues to  
15 shepherd this process, both with our team there in  
16 Japan and our folks back here in Washington, D.C. Any  
17 additional perspectives to add to that by the other  
18 U.S. government agencies on the line?

19 (No response)

20 MIKE WEBER: Pacom, JFOR, DOE? Naval  
21 Reactors?

22 (No response)

23 MIKE WEBER: All right, well let's go to  
24 industry.

25 MALE PARTICIPANT: (Inaudible) will join

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1 us shortly.

2 MIKE WEBER: Okay. Why don't we go to  
3 U.S. industry support structure and roles. Any update  
4 on that from INPO's perspective?

5 MALE PARTICIPANT: No updates from INPO  
6 yet.

7 MIKE WEBER: Okay. Then how about --  
8 let's move on to the INPO report on the status of  
9 material requests.

10 RICK NIELSEN: This is Rick Nielsen. Good  
11 evening everyone. For item number 1, there is  
12 (inaudible, distortion) is going to be ready to ship  
13 on Thursday instead of on Tuesday (inaudible).

14 MIKE WEBER: Hey, Mark, this is Mike  
15 Weber. We can't hear you. You are breaking up.

16 RICK NIELSEN: I had that problem last  
17 night. I'm going to (inaudible).

18 MIKE WEBER: Okay.

19 (Pause)

20 MIKE WEBER: Are you back on? Mark  
21 Nielsen?

22 (No response)

23 MIKE WEBER: Okay, well let's just take a  
24 pause here while INPO reconnects.

25 (Pause)

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1 MIKE WEBER: Mark Nielsen, are you back  
2 with us?

3 RICK NIELSEN: Yes, this is Rick Nielsen.  
4 Is that better?

5 MIKE WEBER: Yes, you're much better,  
6 thank you.

7 RICK NIELSEN: Yes, so sorry, I was trying  
8 that on the cell phone. It was working fine a couple  
9 of nights ago. But all right, anyway, I do have a  
10 short update on item number 1.

11 The first aspect is Bruce for the hand and  
12 foot monitors. The correct number is 20. That was  
13 incorrectly listed as 24 the other day for the hand  
14 and foot monitors, and they will be ready to ship  
15 those on Thursday instead of Tuesday. They were  
16 running into some problems just with the, the large  
17 scope of those items.

18 The other thing to report on this is South  
19 Texas and San Onofre will be -- are ready to ship  
20 their items at any point. San Onofre's items are not  
21 contaminated. They have been decontaminated. They  
22 are ready to ship. There's no hazard associated with  
23 those.

24 South Texas has two parcels. One is clear  
25 and free so it's not contaminated. The other one has

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1 low-level contamination and that's the hazardous  
2 aspect of that shipment.

3 And other than that, nothing more to  
4 report on those items.

5 MIKE WEBER: So you said the Bruce  
6 detectors with (inaudible) would be ready to ship on  
7 Thursday?

8 RICK NIELSEN: That's correct. There's  
9 some shipping questions that we would have, or that  
10 they have on those. There are some pressurized  
11 bottles associated with them, and possible  
12 contamination. I don't think that's the case but they  
13 are looking into that, and also the shipping  
14 ramifications of that.

15 MIKE WEBER: Is that a bottle, the  
16 (Indiscernible, possibly "P-10")?

17 RICK NIELSEN: I don't know that. I think  
18 it's argon.

19 MIKE WEBER: Yes, okay. All right.

20 RICK NIELSEN: But they are looking into  
21 what it would take to ship that if they were just  
22 purchasing it themselves or shipping it on to another  
23 utility. The requirements would be the same, so they  
24 are looking into that.

25 MIKE WEBER: All right.

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1 GLENN SOUTHERN: On the items in -- this  
2 is Glenn Southern -- the items at San Onofre and South  
3 Texas, those are just sitting around waiting for a  
4 decision on how to pay to get those shipped?

5 RICK NIELSEN: Yes, that's correct, and  
6 the question has been asked if they would be willing  
7 to ship them on their own dime. I don't have an  
8 answer yet on that. I expect they'd have to get their  
9 site vice president or a corporate director approval  
10 for that, but the question has been asked and we  
11 should get a response to that.

12 GLENN SOUTHERN: And Rick, they are going  
13 to get back to you?

14 RICK NIELSEN: Correct.

15 MIKE WEBER: And we have authenticated  
16 that it's a valid request? Alan, are you on?

17 ALAN BLAMEY: Yes, I am.

18 MIKE WEBER: Is this still a valid request  
19 as you know?

20 ALAN BLAMEY: As far as I know it is.  
21 It's been requested by the government of Japan, and I  
22 have been trying to get in touch with USAID. They  
23 should be in today. Late yesterday afternoon I guess  
24 they got tied up.

25 But once we get in touch with them we are

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1 going to put it to them to see if they can ship or if  
2 they could at least cover the cost of the shipment in  
3 parallel with what INPO is working with the licensee.

4 MIKE WEBER: Okay. I know we had a  
5 request from the Lieutenant Commander Mercer I think  
6 it is to add some additional columns to this  
7 spreadsheet, including cost to ship and cost, and I  
8 think now is as good a time to raise that, because we  
9 will probably face this as we go through the table.

10 Here at NRC we are prepared to do that.  
11 But before we do that we wanted to make certain that  
12 nobody would have an objection to adding that. I  
13 think, as we talk through the individual items, we'll  
14 see how that kind of information will be helpful for  
15 the parties to line up on, so that we can all be  
16 moving in the same direction.

17 RICK NIELSEN: This is Rick Nielsen. We  
18 think that would be fine. That's something that we  
19 want to get better about -- our degree of coordination  
20 too. So we did pose that question during our phone  
21 call this afternoon about what the projected costs are  
22 and for the San Onofre, it's probably on the order of  
23 one or two thousand dollars; for the South Texas  
24 material probably four or five thousand dollars. But  
25 the Bruce material, we couldn't estimate that. It

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1       seemed like that would be many thousands of dollars.

2               MIKE WEBER:   And those are just shipping  
3       costs, right?

4               RICK NIELSEN:  Correct.

5               MIKE WEBER:   Okay.   Anything else on  
6       number 1?

7               RICK NIELSEN:  Nothing from INPO.

8               MIKE WEBER:   Anything from the other  
9       participants on the call on 1?

10              MALE    PARTICIPANT:       Yes,   this   is  
11       (inaudible, distortion) in Tokyo.    I think it's  
12       important that we nail down this process because this  
13       is probably the tip of the iceberg that we will be  
14       forwarding material from the utilities to Japan.

15              So we need to figure out this process and  
16       make it work for us, and that depends upon the  
17       utilities to (inaudible) the cost of shipping.

18              MIKE WEBER:  Understood.

19              RICK NIELSEN:  Yes, this is Rick Nielsen  
20       too.  You know, maybe this has been expressed enough,  
21       but I'll just say it again.  The -- it's not -- these  
22       items from South Texas and San Onofre, it probably  
23       won't be a big deal for them to pay for that.

24              But we think it is an important thing to  
25       exercise the system and learn how to do this and it --

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1 unless there is an immediate, urgent need, if it takes  
2 a couple of more days to ship these, and that if both  
3 government agencies and the nuclear industry in the  
4 U.S. learn how to do that, that might be a more  
5 important thing, because we are expecting far more  
6 requests than these.

7 ALAN BLAMEY: This is Alan at the embassy.

8 I think I agree, I share this frustration with the  
9 process right now. But I think the embassy right now  
10 is in transition. They are trying to get some  
11 logistical people in here, and I'm not sure of the  
12 arrival date. I believe it's this week.

13 But once they get the logistical people in  
14 here, I think this is going to go a lot smoother than  
15 it's currently going.

16 LIEUTENANT COMMANDER MERCER: This is  
17 Lieutenant Commander Mercer. Also, I have some  
18 updates. I spoke with Mr. Howard at the embassy for  
19 about 45 minutes last night. He is going to be the  
20 gatekeeper for this process and basically he is  
21 working to consolidate all of the industry requests  
22 and (inaudible) your list.

23 That list will get vetted to the Japanese  
24 or presented to the Japanese tomorrow evening, Japan  
25 time, at 1900. At that point that will help us

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1 (inaudible, distortion) in terms fo the exact specific  
2 numbers. That will be the communication mechanism  
3 with the Japanese.

4 If it's a utility, utility type thing,  
5 it'll probably be outside of that channel, but we'll  
6 be able to figure that out once that coordination  
7 meeting happens.

8 So again, Alan, you guys are still taking  
9 the lead on this, but for now, Mr. Howard is going to  
10 be your go-to person for the validation of items and  
11 requirements and requests, and I can confirm that I  
12 spoke with people last night and there are logistics  
13 people coming to the embassy and I don't know what  
14 their arrival date is, and they should be able to help  
15 too, if it ends up being a military-type transport,  
16 not military, (inaudible) USAID DART group.

17 But the people are coming together and, as  
18 I mentioned yesterday, the key thing is to identify by  
19 name who the (Indiscernible, possibly belly button")  
20 is for the specific area and work it that way, because  
21 I think we'll get much better traction doing it that  
22 way.

23 ALAN BLAMEY: Absolutely, and that is  
24 consistent with what I am seeing here at the embassy,  
25 too. So I think we are on the same page with that,

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1 it's just a matter of getting some of the logistical  
2 people in place, and working through the process that  
3 we have laid out here. So hopefully that will happen  
4 early this week.

5 LIEUTENANT COMMANDER MERCER: Sounds good.

6 MIKE WEBER: And that meeting, Lieutenant  
7 Commander, that will be April 4th at 1900 local time  
8 Japan?

9 LIEUTENANT COMMANDER MERCER: That's  
10 correct, that's the bilateral crisis action team  
11 meeting where -- I believe that's the government to  
12 government meeting, the cabinet-level meeting that  
13 they have been having.

14 MIKE WEBER: I just want to confirm the  
15 date.

16 LIEUTENANT COMMANDER MERCER: Yes, I  
17 believe the next one is going to be Monday evening,  
18 and that cabinet-level meeting, that's typically where  
19 the requests come from. We -- tomorrow I know we are  
20 meeting with a couple of the other embassies to go  
21 through the list, to look for duplication of effort,  
22 and ensure that we are not duplicating effort with  
23 other embassies and trying to coordinate that, and we  
24 have also had a request from NISA to get together and  
25 go through the list and we are going to try and set up

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1 a time Monday or Tuesday to do that.

2 In the call yesterday, if you recall, some  
3 of the issues that we have, it's not completely clear  
4 as to the specific request or if it's needed anymore,  
5 and the work that we hope to do with NISA within the  
6 next two days or so will hopefully clear up some of  
7 the ambiguity around the specific items in the list.

8 So we are moving ahead. But we just  
9 aren't there yet.

10 MIKE WEBER: Okay. Anything else on item  
11 1?

12 (No response)

13 MIKE WEBER: The next item on the list of  
14 items is item 15. It's request for military air  
15 transport. JFOR Pacom is the coordinating agency.  
16 Should this be an item on the list? It seem more of a  
17 general category of support that may be necessary. I  
18 read this as a reminder that commercial transit would  
19 be the first priority for timely arrival.

20 Pacom, JFOR, you want to comment on that?

21 MALE PARTICIPANT: This is Pacom, JFOR is  
22 still out in another meeting, but I think we can  
23 concur with that. Other methods are preferred and in -  
24 - then military transport is only after the request  
25 has gone through the official channels, which is

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1 government of Japan to the U.S. embassy and then  
2 they'll make the request of DOD.

3 So we are kind of like the backup line,  
4 you know, we are using when it's outsized cargo,  
5 something larger, bigger, or too heavy to ship through  
6 commercial means.

7 MIKE WEBER: Yes, so this is almost like  
8 general guidance for all of us in considering the  
9 logistics needs and getting material there in Japan.

10 MALE PARTICIPANT: Right.

11 MIKE WEBER: So I think when we update  
12 this list, we probably ought to move that down, keep  
13 it, retain it as general guidance, but not deal with  
14 it as a separate request for specific assistance.

15 MALE PARTICIPANT: And not as an action  
16 item.

17 MIKE WEBER: Exactly.

18 MALE PARTICIPANT: Okay, we concur with  
19 that.

20 MIKE WEBER: Okay.

21 MALE PARTICIPANT: Thanks.

22 MIKE WEBER: Thank you. Next item is  
23 number 16, conduct of aerial survey. DOE has got the  
24 lead as the coordinating agency. Sal, are you on?

25 ALICE CAPONITI: Sal is not on --

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1 RON CHERRY: This is Ron Cherry in Tokyo.

2 ALICE CAPONITI: Hi Ron.

3 RON CHERRY: Is Sal there, or Alice?

4 ALICE CAPONITI: Yes, Alice is on. Sal is  
5 not on the line.

6 RON CHERRY: Alice, do you want to say  
7 anything on that?

8 ALICE CAPONITI: Yes, we do have an  
9 update, and I can provide these by email as well. But  
10 -- and you'll have to excuse me because I'm coming  
11 into this a little bit cold.

12 But those products are being generated,  
13 and they are being, you know, the flight data is being  
14 analyzed and products are being distributed daily.  
15 Based on the latest update, it sounds as though -- it  
16 looks as though there was some thought that there was  
17 U.S. government clearance before these would be  
18 released to the government of Japan.

19 MIKE WEBER: Yes, I think there's some  
20 confusion on this item, because it looks like we are  
21 mixing the aerial measurements with NARAC runs, right?

22 ALICE CAPONITI: Okay. There's a proposal  
23 -- let's see.

24 MIKE WEBER: Are you there Alice?

25 ALICE CAPONITI: Yes. There is a proposal

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1 to move the NARAC tasking to, I think it's a new item  
2 number, 36, and I can -- for the Deputy Under  
3 Secretary of Energy for Counterterrorism will be  
4 discussing with OSTP, and it's likely that products  
5 that are being generated may satisfy this request to  
6 the embassy of Japan.

7 And Ron, if there is anything you can add  
8 for clarity, that would be fine.

9 RON CHERRY: Sure. First of all I think  
10 item 18 may address the NARAC aspect, because that is  
11 the item -- the action item in which we are sharing  
12 the model, and with the specific intent of having the  
13 two sides' experts compare our models with the steam  
14 simulation.

15 So I don't know that we need a new item on  
16 the spreadsheet for the NARAC runs since that, at  
17 least to my eyes, appears to be adequately covered.

18 With respect to the item 16, the aerial  
19 surveys, Alice is correct that we are flying daily.  
20 Ground teams are monitoring as well. We are sharing  
21 the results and the plots that come from the aerial  
22 surveys of ground deposition, and that's occurring  
23 daily, and the only aspect that would require, say, a  
24 clearance before release to the government, I think,  
25 would be with request to the modeling, and so I think

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1 we could probably strike that last statement from the  
2 status of item 16, and deal with that in 18.

3 MIKE WEBER: So if I could summarize what  
4 I think you both have said, is that we are continuing  
5 to conduct the aerial surveys, and we are sharing the  
6 aerial survey data with the government of Japan.

7 RON CHERRY: That is correct.

8 MIKE WEBER: So, so while the status is  
9 open, it's really an ongoing item, because as you do  
10 additional aerial overflights you are sharing those  
11 data with Japan.

12 RON CHERRY: That is, that is a correct  
13 characterization. I think it is being done. It's in  
14 fact, you could say this item is closed because we  
15 have accomplished it, and the activity is continuing.

16 MIKE WEBER: Okay.

17 MALE PARTICIPANT: So this is going to be  
18 closed, is that correct?

19 RON CHERRY: I think you can consider it  
20 closed because we basically are doing it. We have  
21 been doing it since there, just a few days after the  
22 incident. It's going very smoothly. We are having  
23 very good, technical level exchanges with several  
24 Japanese ministries.

25 So I think this one, for all intents and

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1 purposes, is done.

2 RICK NIELSEN: This is a housekeeping  
3 item. It seems like when we are in situations like  
4 this, closing these out would make a list that is more  
5 actionable.

6 MIKE WEBER: Yes, I agree. All right. So  
7 unless somebody objects, we will close that item  
8 because it's happening and it's ongoing. Shall we go  
9 on to the next one? Number 20 and 22, use of  
10 radiation monitoring devices on the ground, mobile,  
11 stationary type. This is another DOE item. Alan?

12 RON CHERRY: And I have a -- Alice, unless  
13 you want to go first, I have a, at least a partial  
14 update on this.

15 ALICE CAPONITI: Okay, go ahead.

16 RON CHERRY: So I think we are planning to  
17 work with the Japanese to place some ground monitoring  
18 -- some stationary monitoring devices. This will be  
19 part of the longer, ongoing monitoring program. That  
20 has not happened yet.

21 With respect to mobile ground monitoring,  
22 as I said before, that is being done. The AMF team,  
23 in addition to its flights, it also does send out  
24 ground teams to survey different areas.

25 So that part is accomplished and ongoing.

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1 The other part about stationary monitoring devices is  
2 still open.

3 MIKE WEBER: So no changes in status on  
4 that, just leave it open?

5 RON CHERRY: Yes, leave it open, but I  
6 think we should be specific that the outstanding  
7 action on this item pertains to stationary monitoring.

8 MIKE WEBER: So mobile is closed?

9 RON CHERRY: Yes.

10 MIKE WEBER: Okay. So mobile is closed  
11 but stationary is open. All right. Were they  
12 originally two separate ones and then we combined them  
13 together? Looks like it.

14 Going on to number 18, conduct of  
15 simulation, we briefly touched on that earlier. It  
16 would seem that, I'm unclear as to whether we have  
17 shares in NARAC runs with the government of Japan.

18 DOE, can you comment on that?

19 RON CHERRY: Alice, do you want me to take  
20 it?

21 ALICE CAPONITI: Well, yes. I have a note  
22 (inaudible) that DOE (inaudible) plan to meet with  
23 next on April 4th to discuss technical cooperation.  
24 So the notice to update that I have sounds like it's  
25 still being discussed, so unless you have something

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1 more specific.

2 RON CHERRY: No, I don't really have  
3 anything much beyond that.

4 ALICE CAPONITI: Okay, I'm going to email  
5 these status updates as well, but (inaudible) a  
6 planned discussion on April 4th to discuss technical  
7 cooperation.

8 MIKE WEBER: And I would suggest that, I  
9 mean, this is a DOE item, right? So the NRC  
10 protective measures team is not working this.

11 RON CHERRY: Well, I think they are all  
12 part of the overall process. We are working with the  
13 NRC team in Tokyo and I've been through them with the  
14 PMT. There are a lot of players, especially on this -  
15 - on the modeling issues.

16 MIKE WEBER: But DOE is the coordinating  
17 agency, right?

18 RON CHERRY: Yes.

19 MALE PARTICIPANT: Yes.

20 MIKE WEBER: Okay, so they'll remain  
21 plugged in as far as the interagency efforts on the  
22 modeling, but I think for the purposes of keeping  
23 track, it's really a DOE --

24 RON CHERRY: Okay, yes. For purposes of  
25 this spreadsheet and keeping it clean, that's fine.

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1 MIKE WEBER: Okay. And in the status  
2 column, it says already sharing raw data on AMF  
3 results. That's the one we previously discussed, which  
4 was number 16.

5 RON CHERRY: Right.

6 MIKE WEBER: So we can take that out,  
7 right?

8 RON CHERRY: Yes.

9 MIKE WEBER: So it's really the focus here  
10 on the modeling.

11 RON CHERRY: Right.

12 MIKE WEBER: Okay. Good clarification.  
13 Shall we go on to number 19? Germanium semi-conductor  
14 detectors. DOE?

15 RON CHERRY: Alice?

16 ALICE CAPONITI: Yes.

17 RON CHERRY: You or me?

18 ALICE CAPONITI: Okay. So DOE/NNSA is  
19 hand-carrying two detectors to Japan, and they -- it  
20 looks like they are going to be arriving on April 5th,  
21 and two to four more are going to be shipped during  
22 the same week.

23 And I will email that update as well.

24 MIKE WEBER: Okay.

25 ALICE CAPONITI: So this is still showing

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1 as open, but there's some progress.

2 MIKE WEBER: Okay. Now does that  
3 duplicate in any way the ones that come later, or are  
4 these different than -- somewhere on this list we had  
5 other ones. I don't see them now. So these are the  
6 only germanium detectors, right?

7 All right. (Inaudible) is opened. Use of  
8 robotic devices.

9 MALE PARTICIPANT: Where are these  
10 detectors going to? Are those going to NISA, or who  
11 are the end users of those detectors that are inbound?

12 MIKE WEBER: Alice.

13 MALE PARTICIPANT: Ministry of agriculture  
14 has requested some. I believe MEXT is also one of the  
15 recipients.

16 MALE PARTICIPANT: What else do you have  
17 Alice?

18 ALICE CAPONITI: I don't have information  
19 on the end users.

20 MALE PARTICIPANT: Okay, well, I know for  
21 certain that one of the recipients is ministry of  
22 agriculture, and that MEXT has also requested one.

23 MALE PARTICIPANT: Yes, and the other  
24 thing that I see in the government request was that  
25 NISA also shows up there too.

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1 MALE PARTICIPANT: Yes, NISA had requested  
2 but I think there was -- there was a need for some  
3 further discussion on that I believe, because they  
4 actually wanted to use it at the site, and our concern  
5 was the that the detector would be saturated.

6 MALE PARTICIPANT: Yes, and if I recall  
7 the initial meeting that this came up, on the 25th of  
8 March, the real -- the initial purpose of this was to  
9 do sampling for food and things like that. Right, but  
10 yes, on the 25th, when it was requested, NISA was  
11 another ministry, I guess, that showed up. But MEXT  
12 is the one that has the lead for it, according to that  
13 meeting.

14 MALE PARTICIPANT: And the third ministry  
15 actually is health, labor and welfare, so agriculture  
16 wants to measure soil samples, and MHLW, health,  
17 labor, welfare, is responsible for water sampling, and  
18 I forget the specific application for MEXT, but yes,  
19 they also had an interest.

20 MALE PARTICIPANT: So the plan right now  
21 then is to get them in country and then do further  
22 coordination once they are here to parse them out  
23 through the relevant agencies?

24 MALE PARTICIPANT: I think the recipients  
25 have been identified. I just don't have that in front

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1 of me. I'm sorry.

2 MIKE WEBER: So that's two detectors by  
3 April 5th, and two to four more later in the week.  
4 Right? Okay. Shall we move on to robotics? Number  
5 21.

6 RON CHERRY: Okay, this is Ron  
7 (inaudible), and the -- we -- the status that I see  
8 here is basically accurate. DOE has the lead on the  
9 ground robotics and hardened cameras. Really, these  
10 are the -- work on a separate channel, I think,  
11 primarily, between DOD, USFJ and Japanese ministry of  
12 defense.

13 The TALON robot and the cameras are  
14 scheduled to ship out on the 5th, and DOE is looking  
15 into sending a robotics expert and an expert also for  
16 the cameras. That part still is to be finalized.

17 And I don't really have any visibility  
18 into the -- into the information regarding contacts  
19 with Dr. Murphy, so if someone else has an update on  
20 that, that would be fine.

21 MALE PARTICIPANT: I sent a note to  
22 Professor Murphy and have not received a response back  
23 yet, but as soon as I do, I will -- and that really is  
24 just to find out who she is working with and just for  
25 general information as just -- the success of this

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1 doesn't hinge on her involvement, probably.

2 MALE PARTICIPANT: Right, and also I see  
3 in a note that Idaho national lab has also been in  
4 contact with Dr. Murphy, so I might suggest, for the  
5 sake of simplifying the contacts and minimizing the  
6 risk of confusion, that if Idaho lab is already  
7 talking to Dr. Murphy, we might want to just let that  
8 one -- let that process continue.

9 AL HOICHEVAR: This is Al Hochevar at Tokyo  
10 industry support team. Dr. Murphy has been contracted  
11 by Westinghouse to work with Westinghouse on the UAV  
12 effort here.

13 MALE PARTICIPANT: Ah well, there you go.

14 RON CHERRY: Okay. This is Ron in Tokyo.  
15 I have nothing else to add on this one.

16 MIKE WEBER: So what's the resolution with  
17 respect to Dr. Murphy, that we have everything we need  
18 on that and Westinghouse is contracting for her  
19 assistance?

20 MALE PARTICIPANT: That's what it sounds  
21 like. I think Dr. -- the question about Dr. Murphy is  
22 only marginally relevant to this item and we don't  
23 need to pursue it anymore.

24 MIKE WEBER: Okay, so do you want to take  
25 her out of this column?

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1 MALE PARTICIPANT: Agree with that, I  
2 would suggest removing Dr. Murphy from this item on  
3 robotics. If she's been contacted by (b)(5)

4 (b)(5) then I'll leave it to the others to  
5 consider addressing that in that separate item.

6 MIKE WEBER: Okay. DOD, any updates from  
7 your perspective on robotics?

8 (No response)

9 MIKE WEBER: All right, Rick?

10 RICK NIELSEN: Yes.

11 MIKE WEBER: Any additional update on  
12 robotics from INPO's perspective?

13 RICK NIELSEN: Nothing at all from INPO.  
14 We are really not engaged in any aspect of the  
15 robotics. So --

16 MIKE WEBER: Okay. All right. Shall we  
17 move on? That will take us to the next item, (b)(5)

18 (b)(5) Let's see, Alan, do you want to start?

19 ALAN BLAMEY: Okay, as far as K-MAX goes,  
20 we don't -- and actually that looks like item 23. The  
21 NRC team at this point in time does not see any need  
22 for K-MAX but we want to validate that with the  
23 embassy to make sure there was nobody else that wanted  
24 to use that on Monday when the staffing gets back at  
25 the embassy.

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1 MIKE WEBER: All right, so the stats is  
2 accurate, you are still working that with the embassy  
3 officials there?

4 ALAN BLAMEY: That's correct.

5 MIKE WEBER: Okay. No change on 23. How  
6 about on 22? Are you working that? It says the  
7 follow up action is with the Japanese.

8 RICK NIELSEN: Twenty-two -- this is Rick  
9 Nielsen. That seems too vague to be of any use. It's  
10 not really driving action. We might want to just  
11 close it out.

12 ALAN BLAMEY: I wouldn't close it out at  
13 this point in time. We have -- I know that NISA has  
14 requested a meeting to go through this in more detail,  
15 and I think some of these items that are vague, we  
16 need to have a meeting with the government of Japan to  
17 firm up if the items are needed.

18 So we are trying to establish that this  
19 week. I would leave that on there and this is one of  
20 the items that we will follow up with the government  
21 of Japan on to see if they can be further clarified,  
22 or removed from the list if it's already covered by  
23 other activities that are ongoing.

24 MIKE WEBER: So Alan, your recommendation  
25 is to keep it open but there's no action at this point

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1 other than for you to continue to discuss it with  
2 government counterparts?

3 ALAN BLAMEY: Yes. We had a request from  
4 NISA, as I said before, and I'm really hoping face to  
5 face, with some of their people, so that we can go  
6 through these in more detail with -- there's a couple  
7 that are very nebulous, that we can firm up, turning  
8 into actionable items or removed from the list. And I  
9 would like before we just remove it, I'd like to get  
10 the government of Japan, I'd like to get their buy-in  
11 on that.

12 MIKE WEBER: Okay, anything else on 22?  
13 We've done 23. Let's do 24, the Bechtel fresh water  
14 supply pump train.

15 ALAN BLAMEY: Yes, this one, based upon  
16 the discussions that we had yesterday with the RST,  
17 our view is to continue on with the planned course on  
18 that. My understanding of the planned course, the  
19 government of Japan, the one train that's there is  
20 fine, but the government of Japan did not request any  
21 additional trains and I believe that DOD is already in  
22 the process of going through and perhaps  
23 reappropriating some of the pumps and things like  
24 that, or de-obligating, excuse me.

25 RICK NIELSEN: So, this is Rick Nielsen, I

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1 will follow up with Bechtel just to let them know of  
2 that. They may be well informed of this, but I'll  
3 close the loop from our end, since we originally  
4 talked with them, and then, I imagine, they'll pursue  
5 what to do with the equipment that they have assembled  
6 in Australia.

7 ALAN BLAMEY: I think that would probably  
8 be appropriate, and my understanding is last Thursday,  
9 I think, they tried to set the course on this,  
10 Thursday and Friday.

11 So all of that, I would expect them to  
12 already know about it and be moving forward on that  
13 course of action.

14 MIKE WEBER: Alan, is that final, or is  
15 that still floating?

16 ALAN BLAMEY: We talked about it with the  
17 RST yesterday, and based upon the discussions with the  
18 RST it sounds like the government of Japan, right now,  
19 they are using fire trucks for backup and they were  
20 going to move forward with it.

21 So we saw no reason at this point in time  
22 to change the direction that was laid out late last  
23 week, and my understanding is that direction, the  
24 military was moving to de-obligate some of the  
25 additional trains that they had, and keeping what was

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1 in place, the one train, I believe, and the two  
2 barges.

3 MIKE WEBER: Okay. So this has run its  
4 course and word is they'll use the first train in  
5 part, but they don't need the other three?

6 ALAN BLAMEY: That is correct.

7 MIKE WEBER: Okay. Twenty-five looks like  
8 it was cut out. Twenty-seven, potassium iodide.

9 MALE PARTICIPANT: That one looks closed.

10 MIKE WEBER: Yes, I agree. So we need to  
11 move that down in the table. Twenty-eight, Alan, do  
12 you have an update on nitrogen?

13 ALAN BLAMEY: Yes, that's one of the items  
14 that we are going to meet with the government of Japan  
15 (inaudible) to go through that particular issue and  
16 understand if there's anything more that needs to be  
17 done.

18 MIKE WEBER: Do we have any better  
19 characterization of what was intended there?

20 ALAN BLAMEY: No, we don't. We tried  
21 several times this past week. We can't get any  
22 additional clarification on that. And that's why,  
23 when we meet face to face and go through the line  
24 items, I want to make sure that if they are not sure  
25 what it is, they don't see a need for it, then our

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1 recommendation is going to be to remove it from the  
2 list and I hope to have their concurrence on that.

3 MIKE WEBER: Okay. Twenty-nine is closed,  
4 so that moves us on to number 30, temporary holding  
5 tanks. DOE, do you want to take the lead on that one?

6 ALICE CAPONITI: I think the action is  
7 that the (inaudible) here is current. Can I just  
8 confirm that the action that you have has information  
9 about the bladders and the volume that they can hold?

10 MIKE WEBER: Yes.

11 ALICE CAPONITI: Okay. I believe that Sal  
12 attempted to get in contact with Admiral Gregory and  
13 was left -- I think was having trouble getting really  
14 good contact information. I think that's the latest  
15 status.

16 If we could get contact information, that  
17 would be helpful.

18 MIKE WEBER: Where is Admiral Gregory, in  
19 Japan?

20 ALICE CAPONITI: I think so. I think he  
21 was able to leave a message but wasn't clear whether  
22 it was going to get through.

23 MIKE WEBER: So, Pacom, or U.S. Forces  
24 Japan, do you have contact information for an Admiral  
25 Gregory?

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1 RICK NIELSEN: This is Rick Nielsen. I  
2 may have an email. It seems like I was copied on an  
3 email from her and I'll sort through my material and  
4 see if I can find it.

5 If I do, who should I send that to? To  
6 Sal?

7 ALICE CAPONITI: Send it to Sal and if you  
8 don't mind, copy me.

9 RICK NIELSEN: Okay.

10 ALICE CAPONITI: And I'm Alice Caponiti --

11 RICK NIELSEN: Both from Naval Reactors.  
12 I gave that to Sal the other night. So I think he's  
13 got it.

14 ALICE CAPONITI: Okay, good. Thanks.  
15 Okay.

16 MALE PARTICIPANT: And we gave him a phone  
17 number as well, a phone number and an email.

18 ALICE CAPONITI: Okay, all right. Thank  
19 you.

20 RICK NIELSEN: Yes, that's better  
21 information than I would have. I could only find an  
22 email. So I wont' take any action.

23 MIKE WEBER: Something that came up here  
24 in our discussion of these items today is any  
25 consideration of radiation effects on the bladder. I

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1 presume these are some sort of organic material. So,  
2 given that the radiation levels are pretty high in the  
3 water that they may want to store in these things,  
4 somebody ought to be taking that into consideration.

5 ALICE CAPONITI: Yes, they're -- I believe  
6 a white paper is being developed that will describe  
7 their use. They are not intended for long-term  
8 storage. They are intended for temporary storage, and  
9 I believe the white paper will address disposal  
10 mechanisms as well.

11 MIKE WEBER: Okay. As long as that's  
12 taken into consideration. Number 31 looks like it's  
13 being worked back through number 30. Is that right?

14 MALE PARTICIPANT: What is your contact  
15 number, and we can deliver it to Admiral Gregory? I  
16 think you haven't talked with her yet and she hasn't  
17 gotten back to you, so what's a good number for her or  
18 somebody on her staff to reach you at?

19 MIKE WEBER: Alice?

20 ALICE CAPONITI: I'm sorry. You're  
21 looking for my contact number?

22 MALE PARTICIPANT: Or Sal's, whoever it is  
23 that's going to be the POC for the bladders.

24 ALICE CAPONITI: Can you use our email  
25 addresses? That's the safest way, because we are all

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1 working offsite. And I believe you have Sal's email  
2 address. My email address is -- do you have it on  
3 distribution?

4 It's -- anyway, it's  
5 alice.caponiti@nuclear.energy.gov.

6 DAN: Yes, this is Dan (Indiscernible,  
7 possibly "Fagel"). I am with Al Hochevar with the  
8 INPO team here in Tokyo. The industry team with  
9 Toshiba and Shaw are working on this and we would be  
10 happy to provide the additional status and get  
11 additional information as it's needed.

12 MIKE WEBER: Do you want to provide  
13 anything now? Or do you just want to do that offline?

14 DAN: I think doing that offline is the  
15 best, and that is our plan already. We will have more  
16 information on items 30, 31 and 32 being provided in  
17 the normal course of business, and that is all in  
18 progress right now and should be coming out very soon.

19 MIKE WEBER: Okay. So this is part of the  
20 service and support that Shaw's providing?

21 DAN: This is part of the industry support  
22 team in Tokyo. Shaw is a member of our team.

23 MIKE WEBER: Okay.

24 DAN: Along with GE, Westinghouse,  
25 Hitachi, and Exelon.

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1 MIKE WEBER: Okay. All right. Shall we  
2 move to 33. Temporary shielding option.

3 ALAN BLAMEY: No change in 33. The NRC  
4 completed our analysis but it's not sufficiently  
5 detailed to hang shielding. So once again, at this  
6 point in time, the NRC plans no more action, but we do  
7 want to confirm with, I think it was NISA who had --  
8 who was interested in this, and close it.

9 But we need to, as I said before, we need  
10 to touch base with NISA and make sure that they  
11 understand this.

12 MIKE WEBER: So Alan, you are going to  
13 loop back to NISA and either clarify the request or  
14 provide your analysis back?

15 ALAN BLAMEY: Yes, really what it is, it's  
16 going to be the analysis that we did was really more  
17 focused on the fuel pools, and could they flood the  
18 fuel pools from a structural integrity standpoint. To  
19 go through and hang shielding throughout the  
20 buildings, we don't have sufficient details to do that  
21 analysis, and that's what we plan to communicate to  
22 NISA.

23 If they need that or they still request  
24 it, then we are going to have to discuss internally  
25 how we want to proceed with that.

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1 MIKE WEBER: Okay. Any more discussion on  
2 33, shielding? Let's go on to the rad survey meters,  
3 number 34. Rick?

4 RICK NIELSEN: Yes, that's my item. The  
5 thing -- this is what we did on this. Shortly after  
6 the tsunami, this request came to us. We're unsure of  
7 its source. I think it came through the Reactor  
8 Safety Team.

9 And you can see that it's very vague. So  
10 what we did is we broke down each of those things,  
11 like 2100 units of rad survey meters, and if it were  
12 us, how many of those would we need.

13 So we just broke that down, sourced them  
14 and provided a list with prices with how much it would  
15 cost for each of the items, and then provided that to  
16 the government of Japan, and we didn't hear back from  
17 them.

18 What we didn't have on that list is the  
19 lead time that the sources would need to provide them  
20 so that is what is being done now, is determining the  
21 lead time, and then we'll resubmit the list and it can  
22 really be used as a shopping list. This is what we  
23 want and we want, instead of 500 of these, we want  
24 700, and they can -- they can either order it on their  
25 own, have us source it, and it would be their choice,

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1 what they wanted to do with that list.

2 So we ought to have that -- I thought we  
3 could have it today, but I was too ambitious on that.  
4 We ought to have it tomorrow.

5 MIKE WEBER: Okay. And then you're going  
6 to work that back through Al and his team in Tokyo?

7 RICK NIELSEN: Correct.

8 MIKE WEBER: Would you need any  
9 authentication of that in the discussion that takes  
10 place on Monday in Tokyo?

11 RICK NIELSEN: Well, we will need  
12 authentication of that, especially if -- if the  
13 Japanese want to do anything with that. But this was  
14 one of the very earliest requests. So our  
15 authentication of it was pretty rough. We just  
16 accepted it on face value, recognized that this is a  
17 no-brainer in terms of they're going to need a lot of  
18 these things. So we just went ahead and did what I  
19 described.

20 MIKE WEBER: Okay. So do you need Alan to  
21 bring that up in the discussion?

22 RICK NIELSEN: Yes.

23 MIKE WEBER: Okay. Have you got that  
24 Alan?

25 ALAN BLAMEY: Yes, it sounds like there's

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1 going to be a list that the Japanese government can  
2 choose from, and what we are interested in is the  
3 choice of the equipment and the quantity.

4 RICK NIELSEN: Yes, and what I can do is I  
5 can actually send you that list early tomorrow if  
6 you'd like. What it won't have on it is lead times.  
7 But that's a detail that they probably don't need at  
8 this point. The lead times, we ought to get tomorrow,  
9 midday. But I can give you -- we developed the list  
10 two weeks ago. So it's still a valid list. It's  
11 pretty current.

12 MALE PARTICIPANT: I think that will work,  
13 if you can email that to myself and also Al, with your  
14 Tokyo INPO team, I think that would work.

15 RICK NIELSEN: Okay, so I'll send it to  
16 both of you.

17 MIKE WEBER: Okay, and I think the rest of  
18 the items are effectively closed, setting aside the  
19 one on the robotic devices for rubble removal, which I  
20 guess the subject there was pre-visitation.

21 Are there any other discussions on the  
22 list as it currently stands?

23 RON CHERRY: This is Ron, Ron Cherry in  
24 Tokyo. Just one, one comment on the robotics for  
25 debris removal. At a meeting last week, the Japanese

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1 actually indicated that for the time being, they were  
2 withdrawing that request for equipment, with the only  
3 assistance being requested, simply for technical  
4 advice on how to shield heavy equipment that the  
5 Japanese have been providing themselves.

6 MIKE WEBER: So we should close this one  
7 and indicate that the government of Japan has  
8 withdrawn the request?

9 RON CHERRY: Yes.

10 MIKE WEBER: Okay. That's a good  
11 clarification.

12 RON CHERRY: Sorry I missed that earlier.

13 MIKE WEBER: No problem. That's why we  
14 have these calls. I know that there has been press  
15 reporting in the U.S. press about the concrete super  
16 pumper trucks heading on their way to Japan. I  
17 understand that wasn't worked through this channel.  
18 That was worked through the direct request from the  
19 government of Japan to the company that manufactured  
20 those trucks and NNSA consented to the release of the  
21 truck that was being used at the Savannah River site.

22 So it looks like those pumpers are  
23 expected to be shipped some time this coming week, and  
24 we understand that those are going to be used for  
25 delivering water for the -- probably for the spent

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1 fuel pools, but could be used for other water delivery  
2 activities.

3 So I'll just throw that out in case you  
4 find out about that or somebody asks why isn't a super  
5 pumper truck on our list. It looks like that was  
6 worked directly from TEPCO back to the pump  
7 manufacturer.

8 COMMANDER CASTRO: U.S. Pacom Commander  
9 Castro. That is correct. That is the way we  
10 understand it also, to the Department of Defense, that  
11 those were requested on the commercial side, as  
12 opposed to through the military.

13 MIKE WEBER: Okay, all right. Thanks.  
14 Any new actions we should talk about?

15 AL HOICHEVAR: Just real again, this is  
16 Hochevar again. Alice, what was your last email  
17 address? I got Admiral Gregory's email here. I can  
18 forward it to you. It's @nuclear.energy.gov? Is that  
19 correct?

20 ALICE CAPONITI: Right, that's correct.  
21 And it's alice.caponiti.

22 AL HOCHEVAR:  
23 alice.caponiti@nuclear.energy.gov. Thank you. I'll  
24 send it to you shortly.

25 ALICE CAPONITI: Thanks, and I missed one

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1 update on item 32.

2 MIKE WEBER: Go ahead.

3 ALICE CAPONITI: The government of Japan  
4 has expressed interest in treatment equipment that is  
5 located at our Savannah River site. We have got a  
6 team here looking at how to facilitate delivery of  
7 some equipment, and I'll provide that update by email  
8 as well.

9 MIKE WEBER: Okay. And we really  
10 appreciate all the updates you provide by email. It's  
11 really helpful for us to -- instead of guessing at the  
12 language that you want to propose to be inserted, if  
13 you give us the specific language. If it's coming  
14 from you as the coordinating agency, then we know it's  
15 a good source of information and it helps to maintain  
16 the accuracy and currency of this. So thanks for your  
17 efforts there.

18 Any other action?

19 ALICE CAPONITI: I have one request in  
20 terms of the format of the action list. It looks like  
21 the -- in the footer where the document is current as  
22 of a time, but the time is a field that is filled in  
23 by the print time, not necessarily the time -- it  
24 doesn't appear to be a fixed piece of information, so  
25 that when you print, the time isn't accurate as of

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1 when the list was actually last updated. You might  
2 want to take a look at that.

3 MIKE WEBER: Okay, well we'll fix that.  
4 You'll get that, right?

5 MALE PARTICIPANT: Yes.

6 MIKE WEBER: Liaison Team is nodding their  
7 heads. Anything else we need to talk about?

8 MALE PARTICIPANT: It appears there are  
9 two item 22s on the list. And the next item, it's  
10 more of a big picture item, item 34, as Mr. Lavoso  
11 said the other day, there's clearly indications that  
12 dosimetry is needed here.

13 So I think a strategy for (inaudible) that  
14 we need to everything we can to press to have as much  
15 information to support that meeting on Monday night,  
16 because we have reports, like you said, here are teams  
17 of five people going up with one dosimeter. So we  
18 need to be a little forward-leaning on this one.  
19 They're small items. It's a quick win to get as much  
20 information as we can to that meeting on Monday night  
21 here in Japan.

22 RON CHERRY: This is Ron Cherry again, and  
23 I have one other item there. I just -- we were  
24 following up on that question within the embassy, and  
25 I received some information in email yesterday that

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1 indicates that the DART and OPTA (phonetic) are  
2 working the issue of the dosimeters and they have  
3 found a donor to cover the cost of shipping the 2,000  
4 dosimeters from Berkeley Nucleonics and they are now  
5 following up with NISA to -- which now has the action  
6 to confirm the official request.

7 So it appears that the -- at least  
8 donation of the 2,000 dosimeters from Berkeley  
9 Nucleonics is being actively worked.

10 MALE PARTICIPANT: The question I would  
11 have that too, that it seems like dosimetry might be a  
12 -- something that the government has, the U.S.  
13 government has a surplus of, so it's just an open  
14 question there. It seems like there would be stocks  
15 somewhere.

16 MIKE WEBER: Okay, Ron, are you suggesting  
17 we add the dosimeters from Berkeley Nucleonics to this  
18 list?

19 RON CHERRY: Well, I was merely -- there  
20 was -- the question was being raised there at the end  
21 about dosimetry, and so I wanted to put that out  
22 there, for the group.

23 MIKE WEBER: But it sounds like you need  
24 the meeting on Monday to authenticate that this is a  
25 request, right?

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1           RON CHERRY: If they -- if we don't get  
2 confirmation by some other means, I guess I'm a little  
3 reluctant to be too definitive on this because it's  
4 not my action. I think there was a discussion on  
5 previous calls that it would be helpful to have  
6 someone from USAID or the DART on this call, and as  
7 was previously stated to the embassy, is -- that  
8 (Indiscernible, possibly would be enough") to become  
9 the central clearing house for the comprehensive list  
10 of testing, so I think -- and the DARTs and USAID are  
11 involved in the action tracking process within the  
12 embassy.

13           MIKE WEBER: Okay, was somebody else  
14 trying to talk? I think we got yours, Ron, but it  
15 sounds like we were getting feedback on our end here  
16 at NRC.

17           ALAN BLAMEY: Hey Ron, this is Alan. I'm  
18 going to try and touch base with the DART today. If  
19 I'm not mistaken they have some reduced hours today  
20 and I need to talk with them on some other issues.

21           So if I can get in touch with them this  
22 morning, I will pose this question to them.

23           RON CHERRY: All right. I think I ccd you  
24 on an email I just sent back to DOE on this, on this  
25 question. But the POC at the DART is Joe Huber.

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1 ALAN BLAMEY: Yes, I touched base with him  
2 -- I believe I touched base with him briefly  
3 yesterday.

4 MALE PARTICIPANT: Well, clearly there is  
5 a need for dosimetry. The question really is, is have  
6 they received dosimetry from other places, right?

7 MALE PARTICIPANT: Right.

8 MALE PARTICIPANT: So I think that's  
9 really the question, is, have they felt that need from  
10 other places.

11 ALAN BLAMEY: And I think once again, as I  
12 discussed earlier, we are going to, tomorrow, I think,  
13 is the first meeting we have with several other  
14 embassies to try and get an understanding of what they  
15 are providing, and we have had requests from the  
16 government of Japan. I think they came in late  
17 yesterday afternoon, if I wasn't mistaken, to get  
18 together and go through this list again to make sure  
19 that there is no changes to it, or if there are  
20 changes, we know about the changes that the government  
21 of Japan is requesting.

22 MALE PARTICIPANT: Okay, so tomorrow, at  
23 this meeting, somebody will know whether or not they  
24 still need dosimetry, or am I mistaken you have to  
25 wait until Monday?

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1 ALAN BLAMEY: No, I -- the meeting, the  
2 meeting with the dosimetry should occur, it's a  
3 cabinet-level meeting, it should occur Monday evening  
4 Japan time. And I believe in that meeting, we may be  
5 able to confirm that, or after the meeting, get with  
6 the appropriate people to confirm that.

7 MALE PARTICIPANT: Is there any way of  
8 figuring it out by tomorrow? I mean it would -- you  
9 wouldn't need cabinet people to --

10 ALAN BLAMEY: Well, the DARTs already have  
11 a request to NISA to confirm the -- that this is still  
12 a, an action that the U.S. needs to complete.  
13 Hopefully, again, the DART has the lead on this. But  
14 the answer to that question from the DART to NISA I  
15 wouldn't think would be dependent upon the 7 p.m.  
16 meeting.

17 Hopefully we will have something before,  
18 but if not, then the 7 p.m. meeting Monday night would  
19 definitely be a place where we could ask that  
20 question.

21 MALE PARTICIPANT: Okay.

22 AL HOCHVAR: This is Hochevar from Tokyo  
23 again. The government of Japan was provided a list of  
24 dosimetry anti-contamination clothing, and other  
25 materials that were available commercially for

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1 purchase. This is from the Entergy Corporation.

2 And that came to like \$1.1 million. They  
3 have that list and they have not yet responded to that  
4 list, but it's not -- it is reimbursable, it's at that  
5 cost. So they also have that for action as well.

6 MALE PARTICIPANT: And they've had that  
7 since before Thursday, right? That was the first time  
8 I was involved. So they've had it for a while?

9 AL HOCHERVAR: That is correct.

10 MALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: And that's TEPCO with  
12 that list?

13 MALE PARTICIPANT: That was given to the -  
14 - at the cabinet-level meeting and I'm not sure. I  
15 think NISA has -- it was given to NISA.

16 MALE PARTICIPANT: Okay. Thank you Al.

17 MIKE WEBER: Anything else?

18 COMMANDER CASTRO: Yes, this is U.S. Pacom  
19 Commander Castro. Update on number 23. The U.S.  
20 military has taken K-MAX off the table. So we are no  
21 longer tracking K-MAX. We have been told through our  
22 channels that K-MAX is not needed. Over.

23 MIKE WEBER: We copy that. You got that  
24 Alan?

25 ALAN BLAMEY: Yes I do. We can pull it

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1 off the table.

2 MIKE WEBER: All right. Let's close that  
3 one. Okay. Anything else?

4 (No response)

5 MIKE WEBER: Well, we certainly appreciate  
6 everybody's hard efforts to continue to provide  
7 assistance to the Japanese, and we thank you for your  
8 cooperation. We'll update, we'll look forward to your  
9 emails that will send us the specific updated status,  
10 and we'll close out the items that we discussed.

11 MALE PARTICIPANT: Thanks. Good call.

12 ALICE CAPONITI: May I confirm that the --  
13 this is being sent to LIA 11? Is that the contact  
14 list?

15 MIKE WEBER: That is correct.

16 ALICE CAPONITI: Okay, thank you.

17 MALE PARTICIPANT: Right-o. All right,  
18 thanks and have a good night or day, depending on  
19 where you are.  
20

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(CONFERENCE CALL INITIATED)

MIKE: Hey Chuck?

CHUCK CASTO: Hey Michael.

MIKE: How are you?

CHUCK CASTO: Great. (Indiscernible, possibly "The Admiral") is here with me.

MIKE: Okay. Chuck, here's our situation. The Reactor Safety Team has prepared to document and they have vetted it through the industry and the other agencies and they got concurrences on it, and I just wanted to talk it through with you briefly. I know the team has been talking to Mike Scott about it.

But it's a much different document than what I think you all were expecting. So I didn't want to send it over and have a shock factor for you.

It really lays out the justifications, supplementing what we had previously provided on the merits of venting and then it concentrates on the

(b)(4)

(b)(4)

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(b)(4)

CHUCK CASTO: Yes.

MIKE: So, at this point, do you -- are you planning on receiving this document from us on the supplemental information on venting? Is that something you need now?

CHUCK CASTO: The supplemental information on venting? The (Indiscernible, possibly "hydrogen, as far as") that would be helpful, well, the (inaudible).

MIKE: Yes.

CHUCK CASTO: (Inaudible) we will receive all of those. You know, we appreciate any assessment that is done that is always illuminating, you know?

MIKE: Okay.

CHUCK CASTO: And I think all of them would be helpful. Particularly helpful would be the

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1 hydrogen piece. I've asked you to task the -- os Pat  
2 there?

3 MIKE: Pat's here.

4 CHUCK CASTO: Task Pat and his team to  
5 consider a piece of information we have heard  
6 yesterday for the first time from TEPCO that it may or  
7 may not have impact, again, I just don't know, and it  
8 may or may not make a difference.

9 But they reported that there were  
10 calculations relative to the dry well pressure on unit  
11 1, and that they were leaking 10 percent to 30 percent  
12 of the volume a day, out.

13 MALE PARTICIPANT: Yes, we have that  
14 information, but you know, what the consortium here  
15 has been working on, and I was turned over, you know,  
16 four or five hours ago, was this document that  
17 essentially, it provides the (b)(4)

18 (b)(4).  
19  
20  
21  
22  
23  
24  
25

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(b)(4)

(b)(4)

Now --

MALE PARTICIPANT: Yes, we absolutely want to do that.

MALE PARTICIPANT: Yes, and I have been talking with Mike Scott about that, at least a couple of calls during the night. Now, the other document was put behind in priority, and the consortium has worked on this hydrogen paper, they didn't ignore the -- and we are terming it the Elmo questions. I don't know how it got that affectionate term, but it did.

And --

ELMO COLLINS: I was passionate about it.

MALE PARTICIPANT: Okay, well that's good. Well, that one has been, was put on a back burner and we are working on it, but it's not --

MALE PARTICIPANT: It's not on a back burner. It's number 2 in the queue.

MALE PARTICIPANT: Well we're done with number 1 now, so it moves up to number 1, right?

MALE PARTICIPANT: You got it.

MALE PARTICIPANT: You got it.

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1 MALE PARTICIPANT: That's correct, but the  
2 industry is not working on it aggressively as we  
3 speak.

4 MALE PARTICIPANT: Well, we're working on  
5 it --

6 MALE PARTICIPANT: We will, but we will  
7 need consortium -- it's not going to happen tonight.

8 MALE PARTICIPANT: Well, but we need to  
9 start something and continue to refine it and then  
10 pump something out to the industry and then other  
11 agencies and off we go.

12 MALE PARTICIPANT: Correct.

13 MALE PARTICIPANT: Well, appreciate that.  
14 I don't know if that question makes sense to you or  
15 not. I can talk you through how I see it and the team  
16 sees it, if that would help.

17 MALE PARTICIPANT: We rewrote the question  
18 to make it more succinct, and will I send this, and  
19 I'll go ahead and put that, your question and make  
20 sure that we understand it.

21 MALE PARTICIPANT: It's not so much a  
22 question as absent something happening, we don't  
23 anticipate the Japanese government making the decision  
24 to flood.

25 MALE PARTICIPANT: Correct.

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1 MALE PARTICIPANT: So they will be in feed  
2 and bleed, if they can stay there. That's the  
3 assessment. And we don't actually know, but if they  
4 decide -- they have not decided to flood, and at one  
5 point they were pretty adamant they were not going to,  
6 they didn't have to vent and flood.

7 But since the dry well is now leaking, you  
8 know, I think I want to make sure -- they are already  
9 venting so I don't -- at any rate, we don't have, to  
10 my knowledge, any type of analysis or modeling or  
11 anything to give any assistance to us off the shelf to  
12 help understand how can you go wrong with long-term  
13 fed and bleed in a situation like this?

14 We took at lot of uncertainty. There's a  
15 lot of unknowns. That's why we want them to flood.

16 MALE PARTICIPANT: Right, yes. We agree  
17 with you.

18 MALE PARTICIPANT: But if they don't, is  
19 this a viable strategy potentially and at some point  
20 in time, I mean, we are three weeks into this thing  
21 now. At some point in time, doesn't the value of  
22 flooding just kind of diminish, and if things are  
23 being maintained, I'll say in a steady state, albeit  
24 maybe precarious or uncertain, but temperatures aren't  
25 going anywhere, and they are injecting, over time,

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1 doesn't' that eliminate the value of flooding?

2 I mean, I don't know, that's kind of --  
3 that's really just a question.

4 MALE PARTICIPANT: Right, yes, we have  
5 that question and we understand it. We have been  
6 talking about that ourselves. At what point do you  
7 cross over, where the flooding no longer is the  
8 dominant --

9 CHUCK CASTO: Right, and -- this is Chuck.  
10 The best bit of your -- best thinking on that is  
11 that, you know, it may not be as scientific and quiet  
12 as quantitative as Sandia's assessment will be. But  
13 it's an expert elicitation that's support by five or  
14 more organizations, and that brings credibility and  
15 power to the discussion.

16 MALE PARTICIPANT: I understand.

17 CHUCK CASTO: That's the benefit of it,  
18 and you know, so that (inaudible), and what probably  
19 (inaudible) will discuss with you here about what we  
20 see as the going forward strategy -- strategy to make  
21 an overall assessment of the plant's situation as it  
22 is today, and as it is going forward.

23 We like to put together an assessment of  
24 where we think from a (inaudible) point of view, from  
25 protective measures and reactor safety and beyond,

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1 where we think we are and where we think we are  
2 headed, to give some clarity to, you know, our mission  
3 in the future, here, and --

4 (Multiple speakers)

5 MALE PARTICIPANT: things pan out right?  
6 How do we anticipate the situation playing out?

7 CHUCK CASTO: Right, right. And your  
8 (inaudible) more articulate (inaudible), short of  
9 (inaudible) the handoff strategy. So we played out  
10 sort of a package that we would put together of  
11 assessments, of individual assessments and come to  
12 some conclusion with those assessments, and then  
13 spread it throughout the NRC and then we would  
14 socialize it with the other entities that are  
15 involved, to get, you know, kind of a global consensus  
16 on this is where we're at, and put this assessment  
17 paper together, that we conclude this is where we're  
18 at and this is where we're headed, given the situation  
19 as it is today.

20 And then that's our kind of a --  
21 (inaudible) has got much more detail about it, but  
22 that's kind of what our thinking is, that we would get  
23 this assessment together, we would have a challenge  
24 board of senior NRC officials to look at the  
25 assessment and challenge us on it, you know, give us

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1 the gaps that are in there, and then we would present  
2 that package to the other federal agencies and  
3 eventually to the principals, the deputies, you know,  
4 it would be presented to them, and that would be our  
5 going forward strategy. Does that make sense?

6 MALE PARTICIPANT: Yes, are you working  
7 that there Chuck, or do you want us to be working on  
8 that back here?

9 CHUCK CASTO: Oh, we're working that here.

10 MALE PARTICIPANT: We want to collaborate  
11 with you and make sure we are on the same page.  
12 (Inaudible) put something in there we don't need or  
13 left something out that we do need. So we are going  
14 to take a first shot at it, and --

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: we're with you but in  
17 the end it's going to be the RST's assessment, you  
18 know, so however we, you know, I think we are going to  
19 assign somebody here, two people here to put it  
20 together, and then you know, challenge it ourselves  
21 here, and then send it to you guys for a challenge,  
22 and then ultimately challenge it with senior NRC  
23 officials.

24 MIKE: And I can tee that up because I'll  
25 be on the deputies' call on Monday afternoon.

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1 CHUCK CASTO: But oh, Mike, under-promise  
2 and over-deliver for us, okay?

3 MIKE: All right, all right. Okay. We  
4 are going to ship you rev 6 on hydrogen, and then  
5 RST's on top of the next one (inaudible) strategy.

6 MALE PARTICIPANT: Right.

7 MIKE: Okay?

8 MALE PARTICIPANT: Yes.

9 MIKE: Thanks for your time.

10 FEMALE PARTICIPANT: Hey Elmo, it's MJ.  
11 How are you liking Japan?

12 ELMO COLLINS: Who's that?

13 FEMALE PARTICIPANT: This is MJ.

14 ELMO COLLINS: Oh, MJ.

15 (Multiple speakers)

16 FEMALE PARTICIPANT: I saw you this week.  
17 I saw somebody else with some horns in -- their staff  
18 -- with horns in their cubicle and it made me think of  
19 you.

20 ELMO COLLINS: Now who, now I'm the only  
21 one in the agency that's got one of those.

22 FEMALE PARTICIPANT: You know, I found  
23 somebody in admin that has actually got a set of them.

24 ELMO COLLINS: No, not the real thing.

25 FEMALE PARTICIPANT: Well, maybe they were

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1 fake. I didn't get that close to them.

2 ELMO COLLINS: Yes, okay.

3 MIKE: Hey, we're seeing some reporting  
4 back there about a U.S. government, Japanese  
5 government consortium that got launched this past week  
6 there in Japan. Are you aware of that, on nuclear?

7 ELMO COLLINS: I don't know anything about  
8 that.

9 MIKE: Yes, they have like Bob Cochrane  
10 from B&W and, I didn't recognize everybody siting  
11 around the table but --

12 ELMO COLLINS: Industry?

13 MIKE: Yes.

14 ELMO COLLINS: (Inaudible). Yes, I think  
15 they have that, the U.S. industry consortium.

16 MIKE: Okay.

17 ELMO COLLINS: But, and the other thing,  
18 Mike, I don't know that I've shared with you,  
19 (inaudible) like to do is, because we have so many  
20 people and you nay have seen the New York Times today,  
21 but because we have so many people doing so much work  
22 on the immediate events, like Shaw and all them, we  
23 are going to try to have a technical coordination  
24 meeting so that we understand, but not long term,  
25 because the vendors, that's their business --

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1 MIKE: Yes, yes.

2 ELMO COLLINS: I don't care about that.  
3 But with regard to the immediate crisis, we are going  
4 to try to have a meeting with all the vendors to  
5 understand what they are doing.

6 MIKE: Right.

7 ELMO COLLINS: So we are going to try and  
8 pull that together, and you know, have Shaw, AREVA,  
9 the industry consortium, everybody in a room, to  
10 understand, and that will help us with our package on,  
11 you know, future state, to be able to understand what  
12 they are doing.

13 MIKE: Okay.

14 ELMO COLLINS: We're going to see if we  
15 can get them together so we can have a global picture.  
16 The other thing that we are working on, if you have a  
17 minute Mike, I'm sorry --

18 MIKE: We're here to support you.

19 ELMO COLLINS: Okay, the other thing we  
20 are working on is we have a -- we have a hydro-  
21 geologist working on the groundwater. I don't know  
22 anything about groundwater, but we found somebody who  
23 does. I claim not to know anything about groundwater.

24 So we've got a -- we have someone working  
25 on hydro-geology at the site.

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1 MIKE: Who's that?

2 ELMO COLLINS: It's -- they're actually --  
3 it's a hydro-geologist that's here in the embassy. He  
4 works for, he works for public health service, and  
5 he's a great guy, really very helpful and very  
6 knowledgeable.

7 So he's got people that have hydro-  
8 geology, and they already have looked at the hydro-  
9 geology, he briefed us a little bit on it this  
10 morning. So they are pulling something together on  
11 that.

12 In addition, he hooked us up with a -- we  
13 want to look at the ocean plume, even though we don't  
14 see that as really within our scope. But what we'd  
15 like is, when we get this package together of the  
16 current state and future state, we want it to be  
17 comprehensive.

18 So if we, you know, if we can get, if we  
19 can get an analysis of the ocean plume, because the  
20 Navy is interested in that in particular, and what  
21 plume they are driving their ships through or whatever  
22 you do with ships, I'm not a Navy guy, but whatever  
23 they're sailing their ships through, the --

24 MIKE: Driving worked.

25 ELMO COLLINS: Driving worked. Whatever

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1 they are driving their ships through, they would like  
2 to know, you know, they moved the Reagan, or they are  
3 moving the Reagan after tomorrow. They are going down  
4 south with the Reagan, for a lot of reasons. It's not  
5 just because of the plume out there. It's -- there's a  
6 number of reasons the Reagan is moving.

7 And, but they would like, so you know,  
8 Admiral Willard, it would be helpful for them to  
9 understand what the ocean plume is doing. We  
10 understand from this morning, talking to the hydro-  
11 geologist guy, that NOAA might be able to help us out  
12 with the ocean plume, that they have models of the  
13 ocean plume.

14 So we'd like to get the PMT back there,  
15 hook up with NOAA, and work the ocean plume.

16 MIKE: Have you got a point of contact?

17 ELMO COLLINS: I can try to get one from  
18 Joe Huber, a point of contact, and I'll go up there  
19 within the hour --

20 MIKE: Okay.

21 ELMO COLLINS: and talk to Joe.

22 MIKE: If not, well I guess we'll just  
23 have to reach out to maybe some NOAA operations center  
24 or if anybody back there has a cooperation with NOAA.

25 ELMO COLLINS: Yes, we can do that from

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1 here.

2 MIKE: I did see that NOAA was assigned an  
3 action last Thursday to do the plume in the ocean. So  
4 they only got that --

5 (Multiple speakers)

6 MIKE:

(b)(5)

7 (b)(5)

8 ELMO COLLINS: Then we need to be hooked  
9 up with that so we can include it in our package.

10 MIKE: Yes.

11 ELMO COLLINS: And so we have a, you know,  
12 what we're going to do is to give it a ground, air,  
13 water, you know, future safe (Indiscernible, possibly  
14 "package") to everybody, and put that together this  
15 week. That's our goal for the week. Still we can go  
16 over the detail, you know, but I think we have a  
17 pretty good, pretty comprehensive package we are  
18 putting together.

19 MIKE: Okay.

20 ELMO COLLINS: But there's a couple of  
21 items we see as challenging. Maybe we need to share  
22 ideas on Mike, if that's okay.

23 MIKE: Yes.

24 ELMO COLLINS: One is the reassessment of  
25 the 50-mile EPZ (inaudible) for evacuation of U.S.

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1 citizens.

2 MIKE: Right. You have our relaxation  
3 criteria?

4 ELMO COLLINS: I haven't seen it. Have  
5 you posted that?

6 MIKE: Yes we have.

7 ELMO COLLINS: Okay, we need to get that  
8 from Todd in Narita.

9 MIKE: Yes, we'll send it to you.

10 ELMO COLLINS: Okay, as always you are way  
11 ahead of us.

12 MIKE: Well no, we have been working on  
13 that for a while.

14 ELMO COLLINS: Well we weren't aware of  
15 that I don't think.

16 MIKE: Yes. Yes.

17 ELMO COLLINS: Excellent.

18 (Multiple speakers)

19 MALE PARTICIPANT: The other one is, don't  
20 let up on Radnet.

21 MIKE: We're not. We did make comment  
22 with EPA and they are putting it up their chain to see  
23 if we can get some support, some traction on that. We  
24 offered to escalate the call if that will help, so we  
25 will give them some time to respond.

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1 MALE PARTICIPANT: The result of the week  
2 is that put together, sort of a global assessment of  
3 the situation, (inaudible, distortion) but we want to  
4 put together a comprehensive package together, and all  
5 these pieces, like the Reactor Safety Team pieces, the  
6 assessment number 1 or assessment number 2, assessment  
7 number 3, the PMT assessment.

8 MIKE: Okay.

9 MALE PARTICIPANT: (Inaudible) Max  
10 (phonetic) from Belcor, Max, Radnet, the relaxation  
11 criteria, the hydro-geology and the ocean plume, and  
12 that would give the, kind of the protective measures  
13 view.

14 MIKE: Okay.

15 MALE PARTICIPANT: So the Reactor Safety  
16 Team assessment and the assessment from Sandia and I  
17 don't know what else is on that list.

18 MALE PARTICIPANT: Well, yes. Looking --  
19 if you see the assessments we have done, your flooding  
20 assessment, the structural assessment, and then what  
21 we think about the feed and bleed strategy that's  
22 being employed right now, and if, especially, we can  
23 see some crossover point that's not in the way distant  
24 future, I don't know if that's true or not, but it  
25 could, if it seemed like it ought to be there, the --

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1 and then what we are having the Sandia guys look at,  
2 using Belcor, to quantify some of the different  
3 scenarios, looking ahead, you know, to see if there's  
4 any difference in the quantification of the feed and  
5 bleed versus the flood versus something bad happens in  
6 unit 1, which is still a possibility, in a  
7 quantifiable way, weigh the different choices, and see  
8 if they don't merge actually as we go into the future,  
9 so --

10 MALE PARTICIPANT: Can you put all these  
11 assessments together, pull out the pertinent points  
12 for each out of them to make up a presentation of the  
13 current state, the potential hazard and the future  
14 state and then you know, we brief you, Mike, and  
15 other, you know, high-level officials in the NRC, get  
16 your questions and then socialize it around the other  
17 agencies and the Ambassador and the principals.

18 That's what we're headed for the week, if  
19 you're okay with that.

20 MIKE: Yes, that sounds like a plan.

21 (Multiple speakers)

22 MALE PARTICIPANT: What is it that  
23 (inaudible) said about plans, you know? They're good  
24 until the first shot?

25 (Multiple speakers)

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1 MALE PARTICIPANT: And the NRC composition  
2 is going to change fairly dramatically, but it's  
3 Sunday here. By the end of this week.

4 MALE PARTICIPANT: By Thursday we'll be  
5 down to, I'm thinking, nine people.

6 MALE PARTICIPANT: Yes, we're at the  
7 (inaudible) so that's problematic right there but --

8 MALE PARTICIPANT: That's the biggest  
9 problem.

10 MALE PARTICIPANT: Yes. But over the last  
11 two, three days, into tomorrow, we are sending nine,  
12 eight to nine home and they won't be returning, so --

13 MIKE: So you think you'll be at nine by  
14 the end of the week?

15 MALE PARTICIPANT: Probably by the end of  
16 the next week we'll be down to five or four or -- one  
17 handful.

18 MIKE: Okay.

19 MALE PARTICIPANT: There's a procession  
20 out the door this week. That will go a long way to  
21 getting us down to, you know, less than a handful of  
22 people here.

23 MALE PARTICIPANT: Yes. I'll put one on  
24 your plate, and that's the consortium. We appreciate  
25 Alan's assistance on that, but you know, listening in

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1 on the call tonight, it just underscores for me the  
2 important that NRC get out of that, not -- we want to  
3 continue to support it, but we really need someone  
4 liked Pacom to take over the leadership of that.

5 MALE PARTICIPANT: You're talking about  
6 the equipment list?

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: Yes, the JFOR is coming  
9 in. We'll have to find out from Alan when that is  
10 happening.

11 MALE PARTICIPANT: We're trying to hand  
12 that off.

13 MALE PARTICIPANT: Yes, we want out of  
14 that business.

15 MIKE: Yes, because it's not very  
16 efficient now, but in the middle of that --

17 MALE PARTICIPANT: Right.

18 MIKE: And you know, it's frustrating, I  
19 think, to see what happened there on the Bechtel  
20 pumping training system, that they got 1 and then they  
21 pulled the plug on the rest.

22 MALE PARTICIPANT: Yes. Right.

23 MIKE: They referred to a Mr. Howard  
24 there. Is he an embassy employee?

25 MALE PARTICIPANT: Howard?

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1 MALE PARTICIPANT: Yes, Howard.

2 MALE PARTICIPANT: Oh, no he -- wasn't he  
3 the Bechtel guy in Australia?

4 MIKE: They called him he's the new  
5 gatekeeper, there at the embassy.

6 MALE PARTICIPANT: I don't know who that  
7 is.

8 MIKE: The impression I have as I connect  
9 the dots is once the JFOR logisticians and planners  
10 get there, they are going to provide assistance to Mr.  
11 Howard and then Mr. Howard is going to take on this  
12 lead coordination role.

13 MALE PARTICIPANT: That's probably  
14 (inaudible) work for Mark Wall (phonetic), I'm  
15 guessing.

16 MIKE: I'll tell you, I don't know who  
17 Mark Wall is, so -- is he there at the embassy?

18 MALE PARTICIPANT: Yes, he's at the  
19 embassy. He 's a senior manager here at the embassy.

20 MIKE: Okay.

21 MALE PARTICIPANT: Probably is somebody  
22 that works for Mark Walsh.

23 MIKE: Okay, I just wanted to make sure  
24 that its' going in the right direction, so we can hand  
25 that off and focus on our global assessments.

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1 MALE PARTICIPANT: Yes, we're globalizing.

2 MIKE: All right. Anything else you need  
3 from us?

4 MALE PARTICIPANT: I think, Mike, can we -  
5 - I'd like to talk --

6 MALE PARTICIPANT: I suggest that you and  
7 Chuck, that you talk separately in advance of the  
8 deputies meeting, I have an idea I want to -- some  
9 things, and I just kind of want to talk to you about.

10 MIKE: Yes, well that's tomorrow at 1:30.

11 MALE PARTICIPANT: I mean, I just like --  
12 we can do it on this call, I mean, maybe we -- we  
13 really think there's a need out here for -- when we  
14 kind of talked about this (inaudible) Mike, for a  
15 principal federal official type person.

16 MIKE: Yes.

17 MALE PARTICIPANT: And that really ought  
18 to be some really good DOE person.

19 MIKE: Right.

20 MMM but we, you know, if DOE is going to  
21 be kind of like the coordinating agency here, we are  
22 not seeing it.

23 MALE PARTICIPANT: We offered them a  
24 golden opportunity yesterday, (inaudible) and they did  
25 not -- they didn't move forward on that.

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1 MALE PARTICIPANT: None of the ones here  
2 were will or capable, we would think, to take that  
3 role.

4 MALE PARTICIPANT: Really? It's usually  
5 the state department employees?

6 MALE PARTICIPANT: Oh, DOE employees.

7 MALE PARTICIPANT: I don't think DOE is  
8 going to -- probably not aware. We thought, Elmo, you  
9 were talking about somebody there form State.

10 ELMO COLLINS: Oh, it -- based on a good =

11 MALE PARTICIPANT: They are actually doing  
12 it right now, and that is the Ambassador.

13 ELMO COLLINS: No, now the state is also  
14 doing the protective danger space, and they are doing  
15 a good job with that. That's Rick Johnstone.  
16 (Phonetic) He  
17 s doing a good job with that.

18 So I don't think State can do = I don't  
19 know that State can do reactor stuff. So if it's not  
20 DOE , then it's going to be naval reactors,

21 MALE PARTICIPANT: Are you talking long  
22 term?

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: I don't -- that's fine  
25 long term. One thing, you've got that core is cooled

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1 and the pool is cooled.

2 MALE PARTICIPANT: If we had a seven  
3 percent fuel pool, I mean that's what we are aiming  
4 for right? Is we need seven percent fuel pools. We  
5 need to turn those three actors into spent fuel pools  
6 that's the goal.

7 MALE PARTICIPANT: Yes, that are cool  
8 enough that you no longer have any likelihood of  
9 (inaudible) release.

10 MIKE: Right, and that's so -- once we get  
11 -- we were hoping to get those turned into spent fuel  
12 pools with the flooding, but that ain't happening.

13 MALE PARTICIPANT: Yes, understood.

14 WWW. So, but, you know, long term you've  
15 got to have somebody that represents the reactor  
16 safety side of the house an you know we are trying to  
17 -- we are struggling with who that is right now.

18 DOE, you know, P. Lyons is coming out  
19 next weekend so we'll talk with him.

20 MALE PARTICIPANT: Yes, I did know that.

21 (b)(5)

22 ELMO COLLINS: (b)(5) We  
23 are talking about the U.S. side.

24 MALE PARTICIPANT: Yes, coordinating U.S.  
25 efforts.

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1 MIKE:

(b)(5)

2 (b)(5)

3  
4 MALE PARTICIPANT: Well, that's -- yes.

5 That's going to be a long process Mike.

6 MIKE: I understand but I think that's  
7 what the end game is for us.

8 MALE PARTICIPANT: Well, we're on a viable  
9 strategy to do that any time in the near future. I  
10 mean, we'll keep them in meetings, but -- because  
11 that's actually, you know, that's not on our list.  
12 Somehow having that established before we move on, but  
13 --

14 MIKE: Okay.

15 MALE PARTICIPANT: Appreciate it Mike.

16 MIKE: All right, thank you.

17 MALE PARTICIPANT: MJ and Pat, thanks for  
18 the help

19 MALE PARTICIPANT: Pat's gone off to work  
20 on Elmo's questions.

21 ELMO COLLINS: Good. Outstanding.

22 (Laughter)

23 ELMO COLLINS: He's more than just a  
24 pretty face, huh?

25 MALE PARTICIPANT: Yes. Absolutely.

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1 MIKE: Okay.  
2 MALE PARTICIPANT: Thanks guys.  
3 MALE PARTICIPANT: Thank you.  
4 MALE PARTICIPANT: Talk to you soon.  
5 MALE PARTICIPANT: Bye bye.  
6 MALE PARTICIPANT: Bye.  
7

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: I've got Chuck Casto  
3 coming up on the bridge.

4 MALE PARTICIPANT: Thank you. Good  
5 morning Chuck.

6 MALE PARTICIPANT: Good evening.

7 (Multiple speakers)

8 CHUCK CASTO: Hey you guys, it's Chuck  
9 Casto. We had talked about the questions that we were  
10 going to send in for the Reactor Safety team.

11 MALE PARTICIPANT: Yes.

12 CHUCK CASTO: Apparently the director of  
13 the safety team has those questions. I'm told that  
14 Mike Case took them. And they are known as the Elmo  
15 questions. That's their affectionate name, the Elmo  
16 questions.

17 MALE PARTICIPANT: The Elmo questions.

18 CHUCK CASTO: Yes, they are -- they ask  
19 about what are the hazards of flooding, what's the  
20 difference between flooding and feed and bleed.

21 MALE PARTICIPANT: Hazards of flooding.

22 CHUCK CASTO: Yes, what's the difference  
23 between feed and bleed and what's the --

24 CHUCK CASTO: What was the third question?  
25 What's the worst case scenario question?

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1 MALE PARTICIPANT: Is it like failure?

2 CHUCK CASTO: Yes, failure. Yes, there  
3 were three general -- three general questions. One  
4 was what are the hazards to long term feed and bleed;  
5 the second one was what's the marginal difference in  
6 terms of release and energy on -- the difference  
7 between feed and bleed and flooding; and the third  
8 area of questions was probably, you know, what's the  
9 worst case scenario.

10 I'll get those to you again tomorrow. But  
11 I understand Mike Case took them and they are known as  
12 the Elmo questions.

13 MALE PARTICIPANT: Okay, so Brian Holian  
14 has just joined us. And Brian, Chuck indicated that  
15 there are some Elmo questions with the RST.

16 BRIAN HOLIAN: Yes, we have one Elmo  
17 question which is basically if they don't want to  
18 continue vetting or follow the RST type directions,  
19 you know, if they don't want to maximize the flow into  
20 unit 1, particularly unit 1, what else can we offer  
21 them.

22 CHUCK CASTO: Yes, hey Brian, Chuck Casto.  
23 I think the other question was what is the marginal  
24 difference in terms of release for hydrogen -- what is  
25 the marginal difference between feed and bleed and

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1 flooding, and do those lines cross, you know, are  
2 those lines, are those -- do those parallel or is  
3 there some point where flooding is, you know, the  
4 marginal -- the marginal benefit of flooding really  
5 isn't worth the pursuit of flooding. Does that make  
6 any sense?

7 BRIAN HOLIAN: Yes Chuck. I guess that's  
8 what I -- that's another way of putting it. There's a  
9 couple of versions out there. I was just reading --  
10 and one way of looking at that, we were just up there  
11 talking about, Chuck, is that you know, once the lower  
12 vessel hits temperatures 117 degrees, 119 degrees, you  
13 know, maybe they've got water all the way up to the  
14 lower head there.

15 CHUCK CASTO: Right, but then today TEPCO  
16 has asked INPO a question today, does that indicator,  
17 does that temperature indicator, is it coupled with  
18 the bottom -- where the indicator is, I'm not sure  
19 exactly where it is, but is it coupled with what's  
20 inside the vessel? They've asked INPO that question.

21 BRIAN HOLIAN: Okay.

22 CHUCK CASTO: So you know, you can take  
23 those -- all those temperatures are suspect, but the  
24 two main questions are what are the long-term hazards  
25 of feed and bleed, and the second question is what,

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1 you know, what do those curves look like in terms of  
2 release.

3 You know, you are continuously releasing  
4 now with feed and bleed, and you will get a puff  
5 release if you -- if you vent the containment on unit  
6 1, and flood. You know, what's the -- what's the area  
7 under the curve, and do those two lines ever  
8 intersect? Those are the questions, if that makes any  
9 sense.

10 I mean there's some point where maybe  
11 flooding is just not, you know, worth the pursuit  
12 that, you know, a month from now, you know, there's  
13 not enough energy or there's not enough source term  
14 for hydrogen for, you know, for force of matter,  
15 whether you flood or whether you just keep feed and  
16 bleed, and we don't know the answer to those  
17 questions. Nobody has ever evaluated that.

18 BRIAN HOLIAN: Right, we have that, and  
19 Chuck, those questions are a little bit vague out  
20 there. I'm just oncoming, but this helps a little  
21 bit. Chuck, I just wanted to, I don't know if we are  
22 going to lose you soon or if you (inaudible), but I  
23 want to understand, we have been talking about the RST  
24 out there, for those of us who have been off for a day  
25 and a half here, the fact that on unit 1, you know,

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1 the containment pressure is dropping now, so that  
2 seems to take apart from some of us the push to vent,  
3 because in effect, they are (inaudible, background  
4 voices).

5 CHUCK CASTO: Yes, TEPCO believes they  
6 have anywhere from a 10 to a 30 percent vent rate on  
7 unit 1 right now. We don't know where that came from  
8 and we don't know whether that's valid. But they seem  
9 to believe that there's a leak.

10 BRIAN HOLIAN: Yes, and out of (inaudible)  
11 because you're down to 9.2 psig and it's been tracking  
12 down. It's really been tracking down for the last  
13 three days from 25 pounds down to now, 9.

14 CHUCK CASTO: Yes, and I think that -- I  
15 think that what they are going to do is cut back on  
16 feed to try to heat up the reactor and get more steam  
17 in there.

18 BRIAN HOLIAN: Yes, and that goes away  
19 from our original charge, which is to maximize flow.

20 CHUCK CASTO: Right.

21 BRIAN HOLIAN: But okay. But I just  
22 commenced to day that we are working a separate  
23 venting paper for your team to, you know, we are  
24 getting comments on it by 10 o'clock here, and they're  
25 just coming in now Chuck, but I'm raising the question

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1 of how important that is with the fact that they have

2 --

3 MALE PARTICIPANT: Yes, I would -- right,  
4 right. I think the real question, Brian, is, you  
5 know, we are moving beyond the flooding. I mean,  
6 that, for us, is just off the table. They're not  
7 going to do it. And it may be that as you say, that  
8 it's already flooded or, you know, it's already  
9 venting, so you know, the flooding question and the  
10 venting question is off the table basically, and the  
11 real question is, what does long-term feed and bleed,  
12 what is the hazard.

13 MALE PARTICIPANT: Are you still there  
14 Chuck?

15 CHUCK CASTO: Yes, I'm still here.

16 MALE PARTICIPANT: Yes, that last  
17 question, the real question is just the impact of  
18 feeding and bleeding, right?

19 MALE PARTICIPANT: Right. Right. What is  
20 the long-term impact of feed and bleed.

21 MALE PARTICIPANT: Yes, continued impact -

22 -

23 MALE PARTICIPANT: And when does the  
24 release -- here's the real question we are trying to  
25 answer -- when is the release measured in meters and

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1 not kilometers. That's what we are really trying, I  
2 mean, that's the question we are really trying to get  
3 to, is, I mean, if you want to know the bottom line  
4 question, it's when is it measured in meters and not  
5 kilometers.

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: You know, that's the  
8 question, that's the six million dollar question.

9 MALE PARTICIPANT: Okay. And I, you know,  
10 a venting paper, the one, Chuck, you know, I -- maybe  
11 the push for nitrogen, they are still trying to push  
12 for that, but even if they (inaudible) to inert  
13 nitrogen, it looks like they will be leaking that out  
14 anyway.

15 MALE PARTICIPANT: Yes, and they're not  
16 going to do that, you know that, Brian, that's in 27R,  
17 that nitrogen valve, you know, they're just not going  
18 to do it.

19 MALE PARTICIPANT: Yes, okay.

20 MALE PARTICIPANT: And you know, so we  
21 need to move beyond all that stuff. (b)(5)

22 (b)(5)  
23  
24  
25

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(b)(5)

MALE PARTICIPANT: Okay, try to come up with an assessment of what feed and bleed will cause over the oncoming days and weeks.

MALE PARTICIPANT: Right. And we're trying to get Sandia to do the quantitative analysis of you know, what would the release look like quantitatively, because the whole idea is, you know, it's reentry criteria, you know, bring independence back, all that stuff, those are the questions we are really trying to answer, (b)(5)

(b)(5)

(b)(5)

I'm walking back.

(b)(5)

(b)(5)

and

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1 that's very difficult. So that's the box we are in.  
2 And we need to know, you know, when is that, like I  
3 said, when is a release measured in meters and not  
4 kilometers. Those are the big picture questions we  
5 are trying to answer.

6 MALE PARTICIPANT: Okay, you know, on the  
7 one piece to help there, Chuck, is any sampling, have  
8 you heard of any sampling of, you know, air spaces or  
9 water?

10 CHUCK CASTO: Not much.

11 MALE PARTICIPANT: Okay.

12 CHUCK CASTO: No, I -- you know, not  
13 really. I'll check on that tomorrow. But I -- I  
14 don't know what all sampling they are doing, to tell  
15 you the truth.

16 MALE PARTICIPANT: Yes, okay.

17 CHUCK CASTO: I don't know what -- I don't  
18 know all the sampling they are doing. I don't think  
19 there's a whole lot of air sampling going on. I don't  
20 know, you know, I don't know all the sampling that's  
21 going on.

22 RANDY SULLIVAN: Hey Chuck, this is Randy  
23 Sullivan, I'm the rad guy at the moment.

24 CHUCK CASTO: Hey Randy, yes.

25 RANDY SULLIVAN: Hey, you confused me a

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1 little bit. We have consistently been asked for  
2 criteria to relax protective actions. And (inaudible)  
3 has consistently said are you under some -- and we  
4 give that criteria. (b)(5)

5 (b)(5)

6 (b)(5) if you are asking us what  
7 are our normal criteria to relax protective actions,  
8 it's a different answer.

9 (b)(5)

10 (b)(5)

What

11 I just heard you say was different.

12 CHUCK CASTO: Well no, I think I'm talking  
13 outside the -- outside the whatever it is, the 50-  
14 mile, the 50-mile range.

15 RANDY SULLIVAN: Oh, we are convinced 50  
16 miles is adequate.

17 CHUCK CASTO: Right, but I think what we  
18 are talking about is outside the 50 miles, and reentry  
19 criteria is all we're talking about. I'm not talking  
20 about inside the 50.

21 RANDY SULLIVAN: Okay, fine. Thank you.

22 CHUCK CASTO: We're talking about outside.  
23 You know, basically we're talking, I mean, it's a  
24 euphemism for we are talking about Tokyo.

25 RANDY SULLIVAN: Yes, I mean, we have so

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1 often said we will have all kinds of early warning  
2 signs before Tokyo is going to be in trouble.

3 CHUCK CASTO: Right.

4 RANDY SULLIVAN: (b)(5)

5 (b)(5)  
6  
7  
8  
9  
10

11 CHUCK CASTO: Right.

12 RANDY SULLIVAN: So, I -- I mean --

13 CHUCK CASTO: Yes, I acknowledge all that.

14 Yes. I understand.

15 RANDY SULLIVAN: Oh, I'm sorry. So you  
16 know all this. I mean, we think Tokyo is fine. We  
17 think 50 miles is more than adequate.

18 MALE PARTICIPANT: Right. But what I'm  
19 saying is it is, you know, when you are talking about  
20 moving the 280,000 people, and you are talking about -  
21 - here's the problem we got into Randy, kind of.

22 (b)(5)  
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(b)(5)

Those are the kinds of things they want to lay out.

RANDY SULLIVAN: Hey, Chuck, I know you've got a lot on your mind, but please bear with me. You said Radnet again. I thought DOE had remote monitors in country that could be deployed if they had permission.

CHUCK CASTO: I don't think that's true. You know, I don't know the science, Randy. I really don't. All I know is what I'm told, and because I'm told by DOE that it's not the same kind of detector, at the same level, or it doesn't measure the same things. That's all I know. You know, they don't have an air monitoring system.

RANDY SULLIVAN: Understand, so -- but Radnet -- could Radnet -- yes. I mean those are grab samples. Somebody has to show up and grab them.

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1 That's not automatic, right?

2 CHUCK CASTO: For what, Randy? I'm sorry.

3 RANDY SULLIVAN: Anyway, so we are back to  
4 asking EPA to deploy Radnet because they can do it if  
5 they have permission, electricity etcetera.

6 CHUCK CASTO: Yes. Yes, I think we are  
7 back to that. The ones that EPA, or that DOE is --  
8 they call it a backpack, and they are putting it in  
9 police call boxes. I'm not exactly sure what it is.

10 RANDY SULLIVAN: Okay.

11 CHUCK CASTO: I mean, you know, you know a  
12 gazillion more about this than I do, Randy. I'm way  
13 out of my lane.

14 RANDY SULLIVAN: But hey, EPA would be  
15 looking for very, very low levels. You know, EPA  
16 equipment is much more sophisticated. We are looking  
17 for stuff that would cause protective action. We are  
18 not looking for environmental monitoring level stuff.

19 RANDY SULLIVAN: Hey, Chuck, I don't want  
20 to go on and on. I'll look in to this.

21 CHUCK CASTO: Yes. And I think that what  
22 the embassy is looking for is environmental  
23 monitoring, you know.

24 RANDY SULLIVAN: Well, they're going to  
25 find it.

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1 CHUCK CASTO: Yes, right. They are going  
2 to find it. And that's going to be a problem. But  
3 the part of the communications plan is that we are  
4 monitoring for it, and we will have days of bad news.  
5 I mean that's part of the communication plan.

6 MALE PARTICIPANT: Yes.

7 CHUCK CASTO: So, they're trying to  
8 communicate to the dependents there's going to be bad  
9 news days, but we are doing everything that is  
10 possible to protect you.

11 RANDY SULLIVAN: You know, Chuck, this is  
12 a shame, because I think we are in a position where  
13 the science can tell us it's okay to return to Tokyo  
14 for expatriates. I mean, that's not my call. I'm  
15 just a contributor here.

16 CHUCK CASTO: Right.

17 RANDY SULLIVAN: But I mean, I think we  
18 could --

19 CHUCK CASTO: Well, I'd be really pleased  
20 to hear what that is, because you know, that's what we  
21 are struggling with.

22 RANDY SULLIVAN: Sure.

23 CHUCK CASTO: You know, if there is a way  
24 to tell that, I mean that's the big, that's the six  
25 million dollar question.

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1 RANDY SULLIVAN: I'll try to draft  
2 something today that maybe will get legs. I don't  
3 know.

4 ERIC: Before -- Chuck, this is Eric, and  
5 Randy, before Randy goes off with the PMT and starts  
6 working on anything, Randy, tell me succinctly, what  
7 exactly are you going to work on from this  
8 conversation? What did you get out of this? What  
9 actions are you going to take away?

10 I want to make sure that we are all  
11 aligned.

12 RANDY SULLIVAN: (b)(5)

13 (b)(5)

14  
15  
16 MALE PARTICIPANT: Yes, you're right  
17 Randy.

18 RANDY SULLIVAN: We've been saying for  
19 days and we will say again, perhaps more succinctly,  
20 that there will be plenty of warnings at the site  
21 before there is a level of emergency and release that  
22 would require actions to be taken in Tokyo, 150 miles  
23 away.

24 Now, the site is not ideal so we have  
25 environmental monitoring by the Japanese, we have AMF

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1 data and we have, I hope, you know, pretty good input,  
2 if something that the site goes wrong.

3 All those factors would allow us, you  
4 know, hours if not days before action had to be taken  
5 in Tokyo, and even if there is only one unit left with  
6 any kind of driving force, there is likely to be no  
7 actions whatsoever.

8 If I understand the status of the spent  
9 fuel pools, they have water on them, and would take  
10 days to burn. Now, if (inaudible) that's true then I  
11 think we can parse something together to give the  
12 Ambassador a hand.

13 MALE PARTICIPANT: Right. Now Randy,  
14 thanks. That would be terrific. The other issue is,  
15 there are voices and I don't -- I can't go into all of  
16 it -- who disagree with the assessment that the fuel  
17 pools are full and that they are not a hazard.

18 You know, there are voices that say that -  
19 - thank you -- voices that say that the site might be  
20 abandoned for three or four days, and that in that  
21 period of time, there would be, you know, a loss of  
22 spent fuel pool cooling, there would be reactors that  
23 go through the bottom head.

24 So the deal is, the situation is, we are  
25 faced with you know, that challenge, to try to, I

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1 don't know, refutes not the right word, but to counter  
2 or to explain that situation.

3 MALE PARTICIPANT: Chuck, if the site had  
4 to be abandoned for three or four days, we have three  
5 or four days of warning.

6 CHUCK CASTO: Yes, I agree with all that.  
7 But --

8 MALE PARTICIPANT: I've got to get back.  
9 See you.

10 MALE PARTICIPANT: See you.

11 RANDY SULLIVAN: If this is useful, I will  
12 try to pursue it.

13 CHUCK CASTO: Yes, well and the other  
14 issue, Randy, is, I agree with you 100 percent, but  
15 also I agree that that postulation has already  
16 happened, you know, that after the accident the site  
17 was, you know, there was no human (inaudible) for  
18 three or four days, that next week, and nothing bad  
19 happened, and that's when the -- that's when you know,  
20 the decay heat still was pretty high, and that  
21 scenario of the site being abandoned has happened, and  
22 nothing more, you know, more hazardous happened at  
23 that very time. Nevertheless, that's the argument  
24 that we are posed with, to try to explain.

25 So you know, that kind of gives you the

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1 background, and I can't go into all the details, but  
2 you know, that's sort of the big picture.

3 RANDY SULLIVAN: Hey Chuck, I don't want  
4 to burden you. I'm just trying to be helpful.

5 CHUCK CASTO: Oh no, you're not Randy,  
6 you're not. And I'm not, I'm not disagreeing with you.  
7 I'm even in agreement with you that I don't -- it's  
8 not a credible scenario.

9 But you know, the problem is we are faced  
10 with that, and it's not credible, and we have to  
11 explain why that is not credible and I would like to  
12 do it both through a qualitative assessment, and a  
13 quantitative assessment.

14 RANDY SULLIVAN: Well, what do we have to  
15 overcome? I mean, we do this. There --

16 CHUCK CASTO: I got Sandia doing it from a  
17 quantitative assessment, you know, and we'd like a  
18 qualitativative assessment from both the PMT and the  
19 RST.

20 MALE PARTICIPANT: Okay.

21 CHUCK CASTO: And you know, and from that  
22 comes that coherent, you know, story of look, this,  
23 you know, we are where we are and there is no hazard  
24 beyond a certain point. It doesn't make sense.

25 MALE PARTICIPANT: Okay Chuck, I think

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1 we've got it. We're going to chew on it here and we'll  
2 work it and we'll get back to you. When's, you know,  
3 I guess it's another shift or so, to work this, and do  
4 you have any kind of time line when you need the  
5 information?

6 CHUCK CASTO: Well, you know, I have asked  
7 Sandia to have their runs done by the middle of the  
8 week, and if they can, to (inaudible) the end of the  
9 week. You know, we will have to go through a number  
10 of iterations to make sure we understand each other,  
11 and you know, look at the product, that kind of stuff,  
12 and you know, so I think it's going to take three or  
13 four days at least.

14 I -- you know, I would like to, by the end  
15 of -- by next Friday, have, you know, Sandia's work  
16 done and the Reactor Safety Team work done, that both  
17 answer the question of what if they feed and bleed for  
18 long periods of time you know, what's the difference  
19 between feed and bleed and flooding, and then the  
20 question of protective measures, you know, what's the  
21 worst thing that could happen, from this position,  
22 that we are in now, beyond the 50-mile point.

23 And I don't want to confuse things. I  
24 don't know what other direction you guys are taking,  
25 but I just know the challenges that we are facing in

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1 terms of, you know, other evaluations that are out  
2 there.

3 MALE PARTICIPANT: I think we got it  
4 Chuck. We'll work it.

5 CHUCK CASTO: I'm sorry. I'm trying not  
6 to burden you guys, but you know, we are trying to  
7 come to a resolution and we're just not thinking stuff  
8 up.

9 MALE PARTICIPANT: No, nononono, Chuck,  
10 you are not burdening us at all. This is what we are  
11 here to do. All right. So, two actions. One, I'm  
12 repeating it back to you to make sure that we are kind  
13 of aligned, when does the release get to meters and  
14 not kilometers, you know feed and bleed versus  
15 flooding, and that's the one issue that we will  
16 pursue. The other that we will pursue is the greater  
17 issue with regard to our (inaudible), kind of when  
18 would we have to extend the 50-mile evacuation.

19 CHUCK CASTO: Or when can we relax it.  
20 Either way.

21 MALE PARTICIPANT: Or when would we relax  
22 the 50-mile, when would we go back in.

23 CHUCK CASTO: Right.

24 MALE PARTICIPANT: Okay. We'll try to  
25 work those two issues.

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1 CHUCK CASTO: I know it sounds simple but  
2 I know that's a lot of work for you guys.

3 MALE PARTICIPANT: Understand. We are  
4 going to work it here. If we need you, we will get  
5 you back on the line.

6 CHUCK CASTO: Call me any time.  
7 Seriously, day or night, any time. It's too  
8 important, you know. We have long days and nights so  
9 it's -- call me at any time.

10 MALE PARTICIPANT: All right.

11 CHUCK CASTO: It's not a problem.

12 MALE PARTICIPANT: Thanks Chuck.

13 CHUCK CASTO: All right guys, thank you.

14 MALE PARTICIPANT: Okay.

15 CHUCK CASTO: Talk to you soon.

16 MALE PARTICIPANT: Right, bye.

17 CHUCK CASTO: Bye.

18 (Multiple speakers)

19 MALE PARTICIPANT: Well the whole issue  
20 here is the fog of the question. You know, the  
21 questions are not succinct they are not direct, they  
22 are do you know it's social, kind of non-nukes asking  
23 these types of questions and we are trying to explain  
24 to them.

25 So Randy, my suggestion is, think about

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1 this. Think about the kind of questions these  
2 (inaudible) are asking, and come up with a list of do  
3 you mean this, do you mean that, real direct, real  
4 pointed, that we can maybe get Chuck back on the line  
5 at some point --

6 MALE PARTICIPANT: And what you've got,  
7 it's not (inaudible), it's the site team, it's my  
8 understanding Randy that the site team, you know, that  
9 Chuck spoke to, have all been contacted so they have  
10 asked them for the calculated (inaudible).

11 So when he was saying (Indiscernible,  
12 possibly "Sandia works for us"), he wasn't putting  
13 that on. He's already, that's my understanding at  
14 turnover, that they have given that to Sandia, and  
15 he's asking you and I for --

16 (Tape ends)  
17  
18

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1 (CONFERENCE CALL INITIATED)

2 HOWIE CROUCH: Howie Crouch, headquarters  
3 operations officer.

4 PAT MOORE: Pat Moore, FSME.

5 RAY POWELL: Ray Powell, Region I.

6 PAUL MICHALAK: Paul Michalak, FSME, DO.

7 PATRICK CASTLEMAN: Pat Castleman,  
8 Commissioner Svinicki's office.

9 TOM HIPSCHMAN: Tom Hipschman, the  
10 Chairman's office.

11 CATHERINE HANEY: Cathy Haney, NMSF.

12 WILLIAM ORDERS: Bill orders, Commissioner  
13 Magwood's office.

14 MICHAEL FRANOVICH: Mike Franovich,  
15 Commissioner Ostendorff's office.

16 MIKE SUNDERLAND: Mike Sunderland  
17 (phonetic), Commissioner Apostolakis's office.

18 HIRONORI PETERSON: Hironori Peterson,  
19 Region III duty officer.

20 MARVIN SYKES: Marvin Sykes, Region II.

21 MALE PARTICIPANT: (Inaudible), SECCY.

22 ERROL JOHNSON: Errol Johnson, NRC  
23 intelligence.

24 MICHELE EVANS: Michele Evans, ENSA.

25 ERIC LEEDS: All right. Good morning. I

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1 hope you are all doing well this Saturday morning.  
2 This is Eric Leeds. I've got the ET, and I plan on  
3 going first through plant conditions, the Executive  
4 Team's overview of priorities, and then we'll get into  
5 the priorities for each one of the teams, the RST,  
6 PMT, and Liaison Team.

7 To start off, there have been no  
8 significant changes in plant conditions reported, with  
9 the exception of the unit 1 containment pressure which  
10 I will get to shortly.

11 We continue to be focused on coordination  
12 with our other principle stakeholders. For unit  
13 number 1, the containment inerting effort has been  
14 postponed for several days. It originally had been  
15 planned for this past Thursday. Now we don't expect  
16 it to occur before the 9th of April. It may not occur  
17 at all.

18 But TEPCO continues to evaluate the best  
19 means for accomplishing the inerting. High radiation  
20 levels in the area are certainly a factor in the  
21 delay.

22 Now, getting back to unit 1 containment  
23 pressure, it appears to be decreasing. In fact  
24 containment pressure has gone from approximately 25  
25 pounds to 9 pounds in the last couple of days' time.

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1           At this point it appears to us that TEPCO  
2 does not appear to be receptive to flooding  
3 containment or inerting. They seem to be leaning  
4 toward long-term feed and bleed.

5           TEPCO is trying to understand when the  
6 release will be measured in meters, as opposed to  
7 kilometers. Another -- one more item for you on the  
8 plant status is one train of the Bechtel pumping  
9 system is on site at Fukushima, along with the fresh  
10 water barges.

11           The second barge is being outfitted with a  
12 higher capacity transfer pump at Onahama prior to the  
13 final move to the site, though apparently this barge  
14 has been delayed because of problems with the pump.

15           The second train is still in Australia but  
16 the site team has confirmed that there really is no  
17 need for further train.

18           Let me move now to the Reactor Safety Team  
19 overview and priorities. There are three items that  
20 the Reactor Safety Team is focused on going forward.  
21 The first is the Reactor Safety Team is working on a  
22 supplemental paper on venting, and we are going to  
23 provide the basis, working this with the GEH, INPO and  
24 Naval Reactors.

25           The second item is we are working on a

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1 spent fuel pool assessment paper. This is a companion  
2 paper to the paper that I believe you saw yesterday. I  
3 think Mike Weber sent that around to everybody with  
4 the recommendations for the reactors. That was the  
5 Reactor Safety Team recommendation for the reactors  
6 that had also been vetted with a number of our  
7 external stakeholders. We still have concerns with  
8 the unit 4 spent fuel pool structural integrity.

9 The third and last item that the RST is  
10 working is a new question that came in this past  
11 evening on what are the marginal differences between  
12 the long-term feed and bleed as opposed to venting and  
13 flooding out the containment for unit 1.

14 And we are looking at how can we help  
15 maximize the benefits of the feed and bleed. So we  
16 just got that issue last night and we expect to be  
17 working that over the next few days.

18 I am going to move now to the PMT overview  
19 of priorities. The Preventive Measures Team continues  
20 their assessment of radiological conditions. Most  
21 projections are protective action recommendations.

22 We were also asked to consider an  
23 assessment of what are the issues to be addressed in  
24 order to return U.S. citizens back to areas beyond the  
25 50-mile EPZ.

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1 If you recall, April 15 is when, I guess,  
2 spring break is out and school gets back in session.  
3 And we are trying to supply information, really, both  
4 outside the EPZ, you know, how we would provide  
5 traveler advisories for folks that we want to return  
6 to Tokyo in areas outside the 50-mile EPZ, as well as  
7 projections for returning within the 50-mile EPZ.

8 The third item that the PMT continues to  
9 work is reviewing the source terms that have been  
10 developed for NARAC's dose projections. (b)(5)

11 (b)(5)

12  
13  
14  
15 (b)(5)

But I

16 think you all have been hearing this over the last few  
17 days.

18 (b)(5)

19  
20 Now, the last of the three teams, the  
21 Liaison Team overview of priorities, the Liaison Team  
22 continues to coordinate the 8 p.m. or 2000 hour --  
23 that's a military term -- daily consortium meeting.

24 The LT will send the updated matrix  
25 meeting agenda to all participants by 1 p.m. each day

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1 in preparation for the 8 p.m. call.

2 All right. And the LT continues of course  
3 our routine interaction with our federal partners.  
4 That's our overview and our working priorities. Let  
5 me open it up for questions.

6 Is there anybody still on the line?

7 PATRICK CASTLEMAN: Eric, this is Pat  
8 Castleman. I am here at least. Did we get any  
9 feedback from the principals' meeting yesterday?

10 ERIC LEEDS: No. We have not received  
11 feedback from the principals' meeting yet today, and  
12 I'm hoping that when we talk with the Chairman we will  
13 get some of that. But no, I have got no update yet,  
14 Pat.

15 PATRICK CASTLEMAN: Okay, thanks. Next  
16 question, on the source term for NARAC, two days ago  
17 we were told it was assumed to be 100 percent of the  
18 unit 1 core and then 100 percent of the unit 4 spent  
19 fuel pool, and then yesterday we were told that it's  
20 the unit 2 core.

21 It wasn't clear if the spent fuel pool is  
22 still part of that source term, and then (inaudible).  
23 And then also, we are trying to understand, or I am  
24 trying to understand the basis for going from unit 1  
25 to unit 2. Do we have any explanation on that?

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1 ERIC LEEDS: Yes, I'm going to turn this  
2 over to Randy Sullivan. He is leading our PMT. See  
3 if he can answer that question. I don't know the  
4 answer.

5 RANDY SULLIVAN: I don't know who gave you  
6 that information. That doesn't sound right to me.  
7 But there has been a lot of source terms developed and  
8 sent to NARAC, so perhaps the confusion is  
9 understandable.

10 (b)(5)

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12  
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18 (b)(5)

I believe, on Thursday night or Friday, it's  
19 slipping my mind.

20 (b)(5)

21  
22  
23  
24 (b)(5)

25  
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1 (b)(5)

2 So the latest source term that we have  
3 sent to NARAC (b)(5)

4 (b)(5)

5  
6 I have a summary of source terms that we  
7 can provide if you don't already have that.

8 PATRICK CASTLEMAN: Yes, we have asked for  
9 that and we haven't seen it yet. We would like to see  
10 that. I think it would be very helpful for us to try  
11 and keep everything straight.

12 RANDY SULLIVAN: Not a problem.

13 PATRICK CASTLEMAN: Great, thanks.

14 ERIC LEEDS: Okay, we will send that out  
15 to all the Commission offices. We will take care of  
16 that. Thank you Randy. Okay, next question.

17 PATRICK CASTLEMAN: Yes, on our Japan  
18 team, how many people are there and where are they  
19 located and what are they specifically doing?

20 ERIC LEEDS: I'm sorry, would you repeat -  
21 - who is asking the question?

22 PATRICK CASTLEMAN: This is Pat.

23 ERIC LEEDS: Pat, I believe that we have -  
24 - this is Eric, Pat -- I believe that we have 12  
25 people over there right now. They are all located in

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1 Tokyo as far as I know, all working out of the  
2 embassy, supporting the Ambassador to Japan, and you  
3 know, and providing the support to the Ambassador and  
4 the Japanese as requested. The leaders of the team  
5 over there are Chuck Casto and Dan Dorman.

6 PATRICK CASTLEMAN: Okay. Okay.

7 ERIC LEEDS: Oh, I'm sorry. I'm sorry.  
8 Elmo Collins took over for Dan Dorman. Dan's going to  
9 come back. I'm sorry.

10 PATRICK CASTLEMAN: Okay. Okay. How is  
11 Chuck holding up?

12 ERIC LEEDS: He sounded great this  
13 morning.

14 PATRICK CASTLEMAN: Okay.

15 ERIC LEEDS: Well, it was dinner time  
16 there.

17 PATRICK CASTLEMAN: Excellent, okay. All  
18 right, well that's all I have. Thank you.

19 ERIC LEEDS: Any other questions?

20 MICHAEL FRANOVICH: Good morning Eric,  
21 this is Mike Franovich.

22 ERIC LEEDS: Good morning Mike.

23 MICHAEL FRANOVICH: Got a question for you  
24 on some of the media reports that have been coming out  
25 on unit 4's spent fuel pool. Supposedly there was a

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1 report of new video footage that TEPCO filmed using a  
2 camera, what sounded like on a boom maybe, going in  
3 and looking at it for structural damage.

4 Have we seen this video, do we have that  
5 in our possession?

6 MALE PARTICIPANT: Yes, we have it. We  
7 have it on the train right now, Mike. We are looking  
8 at it. It's about 20 minutes long. It's a loop,  
9 looks like it's looking down on the unit 4.

10 MICHAEL FRANOVICH: Okay, because there  
11 was some characterization that the pool itself looked,  
12 I'll just use this non-technical, okay, no structural  
13 -- significant structural damage below a certain level  
14 -- of course there is significant damage above the  
15 pool -- but that it was remaining intact and there was  
16 a makeup rate of water of about, maybe about 25,000  
17 gallons a day.

18 Would this video confirm that type of  
19 characterization?

20 MALE PARTICIPANT: No. There's no way to  
21 get a determination of what kind of flow rate they  
22 have got going in on there. Basically, you are  
23 looking down onto the floor, through the debris, it's  
24 a 20-minute long loop, no clear demarcation. You can  
25 see spray, but you can't necessarily tell to what

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1 degree the stream is or what the capacity is.

2 MICHAEL FRANOVICH: Okay. But can you see  
3 water over the fuel?

4 MALE PARTICIPANT: It's not -- the clarity  
5 of it is not adequate, at least in my limited  
6 capability, to make that kind of determination. I'm  
7 not even sure if we can actually clearly see the pool.  
8 You can see the refuel bridge, but I'm not sure  
9 whether the bridge is over the pool or over the  
10 vessel.

11 BRIAN HOLIAN: This is Brian Holian,  
12 Reactor Safety Team, just getting in. The site team  
13 has been studying that video, you know, over the last  
14 several days there have been, you know, kind of  
15 several videos taken.

16 The water level is still unknown, you  
17 know, they continue to put in water kind of in batch  
18 conditions, you know, maybe three hours a day. I  
19 haven't gotten the extent of that. Sometimes we get  
20 the times when they are spraying water up there.

21 Our spent fuel pool assessment says that  
22 the fuel pool is cool but slowly heating. Rad levels,  
23 no information. The temperature of the pool is  
24 unknown, and you are right, water level is really  
25 unknown in that pool. You can't tell from the video.

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1 I will just add, we are getting questions  
2 from the site team about the structural integrity of  
3 that pool. Some of our recommendations have been to  
4 continue to flood those pools, or continue spraying  
5 water on them until you are sure you have got a level  
6 above.

7 On unit 4, we hear from the site team a  
8 little bit, and I don't know if that's from TEPCO  
9 also, some concerns about the structural ability of  
10 that pool to maintain a full water level if they were  
11 to flood it all the way.

12 So there is that question out there that  
13 we have heard.

14 MICHAEL FRANOVICH: Okay, great. Thank  
15 you. Let me just turn the topic back to the strategy  
16 on the severe accident management guidance and TEPCO's  
17 different direction that they are taking, at least in  
18 the interim, not to flood the unit 1 containment.

19 Is that their same view on unit 2 and 3 as  
20 well?

21 BRIAN HOLIAN: This is Brian Holian,  
22 Reactor Safety Team. Yes, in general for the last  
23 week they have been feeding and bleeding all those --  
24 all those units.

25 You know, we don't know, I don't know if

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1 that was Mike again, if the feeding and bleeding --  
2 our recommendation has been to try to maximize that  
3 feeding and bleeding.

4 It appears that they have been trying to  
5 kind of match just the decay heat rate, putting in  
6 water to match that. We don't know exactly why that  
7 is.

8 You know, unit 2 and 3, Mike, I assume  
9 that's because they are worried about the water that  
10 is getting out from the reactor to the turbine  
11 building, and to the trenches, and going into the  
12 environment.

13 That's my supposition, that therefore they  
14 are trying to minimize that water going in. But they  
15 are balancing it by the temperature, so we don't have  
16 a, you know, an overt concern there. We think we want  
17 to maximize cooling there.

18 On unit 1, the issue has been that they  
19 appear not to have wanted to increase pressure in the  
20 containment, sort of minimizing the feed and bleed for  
21 that concern.

22 That may be mitigated now because the  
23 containment, as Eric mentioned, is starting to show a  
24 decrease over the last few days down to 9.2 psig now.  
25 So they are losing some dry well volume.

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1           So they might be self-venting that  
2           containment now, you know, and take away some of that  
3           concern, and we hope to see them, maybe, increase that  
4           injection.

5           MICHAEL FRANOVICH: Thanks Brian. It's  
6           Mike again. Yes, your characterization about probably  
7           the reluctance to do some flooding strategy here is  
8           pretty consistent with what we have been talking about  
9           for the previous ET shifts.

10          So it's pretty much in alignment with my  
11          understanding too. I just wondered if there was  
12          anything new, and I guess the big change here, if  
13          there's any change, is the containment pressure on  
14          unit 1.

15          MALE PARTICIPANT: Yes, is there -- you  
16          hear about reports about, of course there's a lot of  
17          helping hands here trying to -- there's TEPCO and  
18          NISA. But there are reports of concrete supplies and  
19          pumper trucks coming from Savannah River MOX facility  
20          being shipped over there.

21          In our discussions with the consortium,  
22          with GEH and INPO and others, is that a strategy that  
23          has been talked about amongst the agencies and  
24          organizations, or is this something that is being  
25          handled by a separate entity?

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1 BRIAN HOLIAN: Yes, this is Brian Holian  
2 on the Reactor Safety Team. We have been here in a  
3 bubble here in ET. We have seen those news, you know,  
4 reports, you know at home and on TV and the radio, and  
5 so we are following the same information you are.

6 The quick answer is this has not been a  
7 function of the Reactor Safety Team for those, you  
8 know, strategies. We understand that DOE is helping  
9 them, at INPO, mainly DOE over there, embedded, with  
10 the longer term strategy of these containments. Go  
11 ahead, Tom.

12 TOM: Our Liaison Team has been working  
13 with a consortium and we -- I didn't see anything in  
14 the notes from the conversation last night -- John.

15 JOHN ADAMS: Yes, Mike, this is John  
16 Adams. I just looked at the draft matrix, as it has  
17 gone out today for comment by all the stakeholders on  
18 this consortium.

19 There is nothing in the matrix right now  
20 concerning concrete trucks from anywhere. The only  
21 trucks that are referenced in there are assets to  
22 tanker trucks, and that's it. So there is nothing  
23 being discussed by the consortium, I don't believe.

24 MALE PARTICIPANT: Okay.

25 MICHAEL FRANOVICH: That's it from me this

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1 morning. Thank you.

2 ERIC LEEDS: Other questions?

3 PATRICK CASTLEMAN: Eric, this is Pat  
4 Castleman again. While we are talking about the  
5 consortium, you all mentioned that we put out an  
6 agenda for the 2000 call by 1630 every day.

7 And it brought up a question in my mind,  
8 are we leading the consortium or are we facilitating?  
9 What exactly is going on there?

10 MALE PARTICIPANT: Situational awareness.  
11 We are not leading this consortium. We have no  
12 intention of leading the consortium. That's not what  
13 we do. It's not -- it's not what we do best, and I  
14 remember when we set it up, I was with Bill Borchardt,  
15 and we were very, very anxious to have perhaps NR or  
16 DOE to really be the government interface with the  
17 consortium, so that we can focus on our role that we  
18 do best, you know.

19 So our role, right now, is much more  
20 situational awareness and just, you know,  
21 coordination, understanding what they are doing.

22 PATRICK CASTLEMAN: Oh, so I guess the  
23 agenda and whatnot, the preparatory of materials for  
24 the 2000 call, that's just for in-house consumption  
25 then, right?

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1 MALE PARTICIPANT: Oh, very much so.

2 PATRICK CASTLEMAN: Okay, good.

3 ERIC LEEDS: Hold on, let John jump in.

4 JOHN ADAMS: Yes, actually we are  
5 essentially doing the administrative work for it. We  
6 update the matrix after each call. We develop summary  
7 minutes after each call and we provide that to all the  
8 participants on the call.

9 We then expect them to provide corrections  
10 and comments to those documents that we send out. We  
11 update it and they send it out to all participants  
12 before the next meeting.

13 And so we are kind of just in a --  
14 facilitating these meetings but the real work is being  
15 done by all the partners. INPO has been taking a big  
16 part, the military has also, with respect to  
17 transportation. Everybody kind of brings their own  
18 expertise into this meeting.

19 MALE PARTICIPANT: We would like to step  
20 away from that role as much as we can, but there is  
21 the concern of trying to keep it glued together, so  
22 that's -- our role is not to take the lead in it so  
23 much as to just sort of help make sure that the pieces  
24 are staying engaged.

25 PATRICK CASTLEMAN: Okay, thank you.

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1 ERIC LEEDS: Yes, Pat, sorry about that,  
2 you got a more complete answer from the team here.  
3 I've been off shift -- I have not been on shift since  
4 March 11th.

5 PATRICK CASTLEMAN: Right. Right. That's  
6 fine. I just wanted to get a handle on what exactly  
7 our role was, and I totally agree with your comments  
8 about what we do well and what we don't do well. So,  
9 thanks.

10 MIKE SNODDERLY: This is Mike Snodderly.

11 ERIC LEEDS: Go ahead Mike.

12 MIKE SNODDERLY: Thank you for the  
13 briefing from you and your team. Just one question on  
14 -- do we have any idea or any estimate of what you  
15 think the water levels are in the unit 1, 2 or 3  
16 containments?

17 BRIAN HOLIAN: You know, Mike, this is  
18 Brian Holian again. You know, it's -- we get some  
19 data from the Japanese and I'm looking to see if I  
20 have it on the -- on, you know, my status sheets  
21 there.

22 We used to carry it, but you know, we have  
23 approximately half way up the top of active fuel on  
24 unit 1, maybe two-thirds on unit 2, and two-fifths on  
25 unit 3 is what is being carried on our status sheet.

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1 (Multiple speakers, off mic)

2 BRIAN HOLIAN: I'm sorry, so that's on the  
3 vessel. If you are talking about in containment,  
4 that's a separate question. You know, they have been  
5 pumping water in there. Unit 2 and 3 containments,  
6 you know, we know were damaged. We think water is  
7 flowing out to the turbine building there.

8 A few days ago we had some assessments  
9 that we thought the toruses were full and there has  
10 been some thought that maybe water is up -- has been  
11 up to the lower level. That was kind of looking at  
12 the rad levels. If you remember, unit 2 and 3 rad  
13 levels in the torus are both down at about 100 rems  
14 per hour. They have been that way ever -- you know,  
15 for the last week, when on unit 1, you know, you had  
16 rad levels of in 1,000, there in the torus.

17 So we have tried to estimate, you know,  
18 what that mean with water levels in containment, but  
19 we have no instrumentation to show that.

20 ERIC LEEDS: Does that help Mike?

21 MICHAEL FRANOVICH: That helps a lot. I  
22 mean, I guess -- how about this -- I guess the torus  
23 level, the water levels in the torus, are they all as  
24 high as they can be? I mean I guess you can't exceed  
25 the vacuum breakers, but --

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1 BRIAN HOLIAN: Yes, we think the toruses  
2 are probably full by now with water that is leaking  
3 down into them, and so that's our belief on the  
4 toruses.

5 You know, one other thing, Mike, just  
6 while I have the mic now, I just wanted to go back to  
7 venting on unit 1. You know, containment pressures, I  
8 mean, containment pressure is finally going down on  
9 unit 1, and you know, Eric had mentioned Reactor  
10 Safety Team priority of a venting paper, a  
11 supplemental venting paper, you know, that had a  
12 higher significance when we worried, we were worked  
13 that they were maintaining really up around 40 pounds  
14 in that containment a few weeks -- maybe a week ago.

15 But the concern for venting, however, it's  
16 still there, not so much for structural or design  
17 pressure on the containment since it's come down now  
18 to nine pounds, but we still have the concern, I just  
19 wanted to put it out there, about oxygen and hydrogen  
20 mixtures in that containment on unit 1, and venting  
21 might still be a recommendation from the RST view,  
22 just so that you don't raise up hydrogen levels and  
23 oxygen mixtures to a deflagration or a detonation  
24 level in unit 1. You know, it appears they are losing  
25 some pressure, but we don't want it to be worse of a

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1 containment damage that might occur there.

2 MICHAEL FRANOVICH: Yes, I know, I agree  
3 Brian, and the other nice thing is, I think if they  
4 did some purging, it would help maybe answer the  
5 question, is pressure coming down because of the feed  
6 input going in, or is it because there's a slow leak  
7 some place?

8 BRIAN HOLIAN: Yes, that's right. It  
9 would help. And with sort of the practicality of  
10 getting that inerting in through nitrogen, I guess  
11 Chuck Casto mentioned this an hour ago, you know, it's  
12 27 R at one place where they are looking to connect  
13 that vent.

14 So that's where Eric mentioned, it might  
15 be impractical for them to get it and they are still  
16 working that.

17 MICHAEL FRANOVICH: Good luck today and  
18 appreciate everything you guys are doing and we'll let  
19 you guys get back to work. Thank you.

20 ERIC LEEDS: All right. Do we have a  
21 second that we wanted to add, Brian? Was there  
22 something else before --

23 BRIAN HOLIAN: Oh, that was it, we added  
24 down the hydrogen --

25 ERIC LEEDS: Okay. All right. If there

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1 are no more questions we are going to sign off. Last  
2 call for questions.

3 PATRICK CASTLEMAN: Yes, this is Pat  
4 Castleman again. On the unit 1 containment pressure  
5 decrease, do we know if that is controlled or  
6 uncontrolled, or do we have a suspicion in that  
7 regard?

8 MALE PARTICIPANT: We do not believe that  
9 is controlled. It's just the note from TEPCO via the  
10 site team just last night was it's losing 10 to 30  
11 percent dry well volume per day, so they have been  
12 trying to calculate that, and that appears to be  
13 uncontrolled.

14 I had a note in my turnover that it may be  
15 through leakage through some connections in the  
16 containment there, I mean, some of the penetrations.  
17 But more to come on that.

18 PATRICK CASTLEMAN: Okay, all right.  
19 Thank you.

20 ERIC LEEDS: All right. We have one  
21 takeaway here to get back to you all with the source  
22 terms that we have supplied to NARAC, and we will try  
23 to get that done on this shift. All right folks, if  
24 that's it we are going to sign off.

25 MALE PARTICIPANT: All right, thanks.

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ERIC LEEDS: Thank you all, have a great  
day.

MALE PARTICIPANT: You too Eric.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: The Chairman is coming  
3 up on the phone.

4 CHAIRMAN JACZKO: Hello.

5 MIKE WEBER: Hi Chairman, this is Mike  
6 Weber.

7 CHAIRMAN JACZKO: Hey Mike, how are you?

8 MIKE WEBER: Good. How are you doing?

9 CHAIRMAN JACZKO: Good.

10 MIKE WEBER: Getting some rest before you  
11 head out to Europe?

12 CHAIRMAN JACZKO: I am trying to get a  
13 little caught up today.

14 MIKE WEBER: Yes, I can imagine. You have  
15 been a very busy Chairman. Are you ready for the  
16 update?

17 CHAIRMAN JACZKO: Yes, please.

18 MIKE WEBER: Unit 1 containment pressure  
19 at Fukushima Daiichi appears to be decreasing. The  
20 containment pressure went from 25 psig to 9 psig in  
21 the last two days.

22 We don't know exactly what contributed to  
23 that pressure drop. There is speculation that it  
24 could have been minor venting, but given the aversion  
25 to any venting, we just, we haven't heard that back

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1 from the team, and we don't know what is contributing  
2 to that drop in pressure.

3 CHAIRMAN JACZKO: Okay.

4 MIKE WEBER: We don't think it's anything  
5 catastrophic.

6 CHAIRMAN JACZKO: Okay.

7 MIKE WEBER: But we are trying to  
8 understand what is contributing to that.

9 CHAIRMAN JACZKO: Do we have any radiation  
10 readings or anything from around the site?

11 MIKE WEBER: We continue to have radiation  
12 readings, but my understanding is that those readings  
13 continue to decline.

14 CHAIRMAN JACZKO: Okay.

15 MIKE WEBER: But we haven't seen anything  
16 that would confirm that there was large-scale release.

17 CHAIRMAN JACZKO: Okay.

18 MIKE WEBER: We are working on -- I had,  
19 in the last two days I have had discussions with both  
20 Chuck and Elmo, one on one discussions, and they were  
21 very helpful in at least sharing with me some of the  
22 context from in Japan, which you are probably familiar  
23 with, and some of the challenges that they are  
24 personally experiencing. So --

25 CHAIRMAN JACZKO: Yes.

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1 MIKE WEBER: I think that context will be  
2 helpful for us in leading the teams here to provide  
3 the support that they need over there.

4 CHAIRMAN JACZKO: Good.

5 MIKE WEBER: So, part of that, we are  
6 looking at, if you had to discharge, is there a way  
7 that you can do it in a controlled way that would  
8 result in very near-scale, near-field effects rather  
9 than transporting the radionuclides out over  
10 kilometers.

11 CHAIRMAN JACZKO: Yes.

12 MIKE WEBER: And another part of that is,  
13 if you continue with the feed and bleed strategy, and  
14 not go to flooding the containment and venting and  
15 inerting, how best can you cope with that and what are  
16 the repercussions of that scenario and what actions  
17 should be taken to again help to mitigate any large-  
18 scale releases.

19 CHAIRMAN JACZKO: Yes.

20 MIKE WEBER: So we are working on that,  
21 and Chuck and Elmo are going to be sending back to us  
22 some questions that we will give priority to when we  
23 get them back here and develop the answers.

24 We have already started working on pros  
25 and cons for different approaches that could be taken,

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1 so we are prepping in anticipation of those questions.

2 CHAIRMAN JACZKO: Good. Excellent.

3 MIKE WEBER: (b)(5)

4 (b)(5)

5 (b)(5)

You are

6 probably aware of that from the principals' call.

7 CHAIRMAN JACZKO: Yes.

8 MIKE WEBER: And given the background  
9 material that we saw before that meeting, I think we  
10 agree there is ample runs that have already been done  
11 that pretty well bracket the different scenarios.

12 CHAIRMAN JACZKO: Yes.

13 MIKE WEBER: And doing another run might  
14 not be as valuable as we have already got.

15 CHAIRMAN JACZKO: Yes. Yes, I don't -- I  
16 still don't know, and I asked Chuck about that last  
17 night, what exactly it was that the Ambassador is  
18 looking for.

19 MIKE WEBER: If it's -- well I mean we can  
20 pursue that more when we have our call later today.

21 CHAIRMAN JACZKO: Yes.

22 MIKE WEBER: But from the discussion I had  
23 with him late last night, it would seem that the  
24 Ambassador may be looking for something to provide  
25 some confidence for people returning.

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1 CHAIRMAN JACZKO: Yes, that's what -- I  
2 think that message may have been almost garbled a  
3 little bit, that I think that -- because when I talked  
4 to him, when I was there, it was the same kind of  
5 discussion, with how can we start thinking about  
6 criteria for when  
7 people may return and those kind of things. So okay.  
8 That makes sense. I think there doesn't seem to be a  
9 lot of point in doing another kind of worst case or,  
10 (inaudible) a pessimistic case.

11 MIKE WEBER: There's probably enough of  
12 those running around.

13 CHAIRMAN JACZKO: Yes, I think that's  
14 right.

15 MIKE WEBER: But what we need to impart is  
16 some reality into the -- those projections. And you  
17 know, we have been so focused on the technical aspects  
18 of this response, that from the feedback I've gotten  
19 from Elmo and from Chuck, it's almost at this point,  
20 from the Ambassador's perspective, it's the whole  
21 psychology.

22 CHAIRMAN JACZKO: Yes.

23 MIKE WEBER: You know, how do you provide  
24 assurance for people who are considering whether to  
25 come back and that also leads to the discussion about

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1 getting the ERAD (phonetic) monitors deployed in  
2 Japan.

3 CHAIRMAN JACZKO: Yes.

4 MIKE WEBER: And you know, we had turned  
5 that off.

6 CHAIRMAN JACZKO: Okay.

7 MIKE WEBER: But once I understood the  
8 context, we turned it back on.

9 CHAIRMAN JACZKO: Okay.

10 MIKE WEBER: And Chuck said he turned it  
11 on from their end, so we are following up with the EPA  
12 to continue to prod that, so that it gets the  
13 attention that it needs.

14 CHAIRMAN JACZKO: Okay. Good.

15 MIKE WEBER: And again, it's not so much  
16 needed from a technical perspective but it's really  
17 more from a confidence-building, you know, who do you  
18 trust kind of thing, how do you have the assurance  
19 that the environment is suitable for reoccupation,  
20 relocation.

21 CHAIRMAN JACZKO: Yes.

22 MIKE WEBER: I'm sure you understand that,  
23 but I'm trying to convey now I have a better  
24 understanding than I had before.

25 CHAIRMAN JACZKO: Good.

(b)(5)

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(b)(5)

MIKE WEBER: Absolutely. I totally agree.

We are working on updating the RST consensus, Rev 1, to reflect the spent fuel strategy.

CHAIRMAN JACZKO: Okay.

MIKE WEBER: And additional thinking there, more (inaudible), and of course you are aware, from your prior Congressional testimony and what the answer is, the structural integrity of the spent fuel pool, unit 4, continues to flare as a concern.

CHAIRMAN JACZKO: Okay.

MIKE WEBER: Let's see. In terms of the PMT, I mentioned the ERAD monitors that we are working with EPA on, we are continuing to assess the radiological conditions, the dose projections, project back some recommendations.

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1 We would expect that in the not too  
2 distant future, this question of when is it okay to  
3 back off on the 50-mile evacuation recommendation, and  
4 what kind of -- we have our criteria laid out, but  
5 going back to our earlier discussion, it's almost like  
6 the psychological component to that, rather than a  
7 technical component, which of course, you know we have  
8 limited insight on.

9 CHAIRMAN JACZKO: Right.

10 MIKE WEBER: We've got the technical, we  
11 don't necessarily have the social and psychological.  
12 And you are probably there has been media reporting  
13 about super concrete pumper trucks coming from the  
14 United States.

15 CHAIRMAN JACZKO: Yes.

16 MIKE WEBER: There's one, we have it down  
17 in California, one at Savannah River. And this is  
18 something we will pursue in the consortium call this  
19 evening, but we would expect that there would be  
20 discussion about is one going and where is it leaving  
21 from and all those sorts of things.

22 Any questions on that sir?

23 CHAIRMAN JACZKO: No. Again, if you get  
24 any more information, obviously, towards the negative  
25 about the unit 1 pressure drop, if you can just let me

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1 know about that.

2 MIKE WEBER: Will do.

3 CHAIRMAN JACZKO: But at this point I  
4 guess what I'm understanding is we don't have any  
5 other data that would support that pressure drop being  
6 associated with some kind of (indiscernible, possibly  
7 "signs of a larger leak".)

8 MIKE WEBER: Right.

9 CHAIRMAN JACZKO: Okay.

10 MIKE WEBER: That's correct. We would --  
11 I think we have a call at 1800 with Chuck.

12 CHAIRMAN JACZKO: Yes.

13 MIKE WEBER: And you'll be dialing in for  
14 that?

15 CHAIRMAN JACZKO: Yes, or I think I  
16 probably said he will just call me.

17 MIKE WEBER: Okay. And we would send you  
18 tonight an update at roughly 2200.

19 CHAIRMAN JACZKO: That would be perfect.

20 MIKE WEBER: So you'll have the latest  
21 before you go off to bed.

22 CHAIRMAN JACZKO: Great.

23 MIKE WEBER: Any feedback we should be  
24 aware of from the principals' meeting that would guide  
25 our response actions here?

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1 CHAIRMAN JACZKO: No, I think the main  
2 focus of that was continue that (indiscernible,  
3 possibly "focus"), which I think we have well in hand.

4 There was some discussion about some more logistical  
5 issues and some of this may be paid for, but I think,  
6 from talking to Chuck, that's also going in the right  
7 direction, and not so much our issue because we are  
8 not, as an agency, directly supplying any kind of  
9 equipment or things like that.

10 MIKE WEBER: Right.

11 CHAIRMAN JACZKO: (b)(5)

12 (b)(5)

13  
14  
15  
16  
17 MIKE WEBER: (b)(5)

18 CHAIRMAN JACZKO: Yes.

19 MIKE WEBER: Okay.

20 CHAIRMAN JACZKO: (Inaudible) to be  
21 consensus around that. I didn't really engage in that  
22 too much.

23 MIKE WEBER: (b)(5)

24 (b)(5)

25  
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1 CHAIRMAN JACZKO: Yes.

2 MIKE WEBER: Okay.

3 CHAIRMAN JACZKO: And otherwise there  
4 seems to be good, you know, good coordination  
5 domestically. Everybody else is stepping up to their  
6 appropriate responsibilities at (inaudible). So it  
7 seems to be in good shape.

8 MIKE WEBER: Good.

9 CHAIRMAN JACZKO: So yes, so I think we  
10 are in good shape. Obviously, if things deteriorate,  
11 let me know. And if you do get any more information  
12 on the pressure drop, just let me know.

13 MIKE WEBER: Okay. And then we would plan  
14 to brief you tomorrow at 1515 again.

15 CHAIRMAN JACZKO: Yes, that would be  
16 perfect.

17 MIKE WEBER: Okay.

18 CHAIRMAN JACZKO: Again, unless something  
19 else comes up, give me a ring.

20 MIKE WEBER: Okay.

21 CHAIRMAN JACZKO: Okay. Thanks Mike.  
22 Appreciate it.

23 MIKE WEBER: Thank you Chairman.

24 CHAIRMAN JACZKO: Take care.

25 MIKE WEBER: You too.

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1 CHAIRMAN JACZKO: Bye.

2 MIKE WEBER: Bye bye.

3

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: On Elmo's questions,  
3 one question was what to do for hydrogen control?

4 MALE PARTICIPANT: Yes, the -- (b)(5)

5 (b)(5)  
6

7 MALE PARTICIPANT: Right, the rev 1  
8 document --

9 MALE PARTICIPANT: Right, what would the  
10 suggestions to minimize an explosion.

11 MALE PARTICIPANT: Right.

12 MALE PARTICIPANT: And doesn't revision 6,  
13 address a similar set of issues?

14 MALE PARTICIPANT: I haven't read that  
15 entirely yet. But it is focused on that.

16 MALE PARTICIPANT: Okay. So we may be  
17 able to --

18 MALE PARTICIPANT: Hello?

19 MALE PARTICIPANT: Chuck Casto is on.

20 MIKE WEBER: Hi Chuck. This is Mike Weber  
21 here.

22 CHUCK CASTO: Hi.

23 MALE PARTICIPANT: I think the Chairman is  
24 coming on.

25 MIKE WEBER: How are you today?

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1 CHUCK CASTO: Wonderful.

2 MIKE WEBER: Did you have a good dinner  
3 last night with your team?

4 CHUCK CASTO: We did. We had a good team,  
5 team meeting I guess.

6 MIKE WEBER: Good. I'm glad to hear it.  
7 You guys doing okay?

8 CHUCK CASTO: Oh yes. Fine.

9 MIKE WEBER: I appreciated our call last  
10 night Chuck.

11 CHUCK CASTO: Oh, well, we probably should  
12 have talked sooner. That was my --

13 MIKE WEBER: No, no, no, I think it helped  
14 me.

15 MODERATOR: Chairman Jaczko is coming on  
16 the ET conference.

17 MIKE WEBER: Okay thanks.

18 CHAIRMAN JACZKO: Hey Chuck.

19 CHUCK CASTO: Good evening sir, how are  
20 you doing today?

21 CHAIRMAN JACZKO: Good. How are you?

22 CHUCK CASTO: Good. Just an update on the  
23 plant that you probably saw, they had an electrical  
24 conduit leak on unit 2 turbine building out  
25 (Indiscernible, possibly "to the city"). They filled

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1 that up with concrete, tried to stop it.

2 I think the other change is on unit 1,  
3 containment, they -- TEPCO believes that they have a  
4 leak back into 20 percent, that region, they are not  
5 able to, I think they are losing pressure and the last  
6 I heard, containment was about 9 pounds.

7 CHAIRMAN JACZKO: Okay.

8 CHUCK CASTO: The challenge with that, as  
9 I hear it, is TEPCO believes that they have anywhere  
10 from I think the number is 1 to 9 percent hydrogen in  
11 the containment for unit 1. (b)(4)

12 (b)(4)

13  
14 CHAIRMAN JACZKO: Seventy percent  
15 hydrogen?

16 CHUCK CASTO: Seventy percent hydrogen.  
17 So my goal today is to get the GE analysis to TEPCO so  
18 we can reconcile the difference, understand what the  
19 assumptions are and the difference.

20 So I'll do that with Al Hochevar and try  
21 to get the GE assumption to them.

22 CHAIRMAN JACZKO: Okay. The folks -- are  
23 the folks working on that?

24 CHUCK CASTO: Al Hochevar is.

25 CHAIRMAN JACZKO: Okay.

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1 CHUCK CASTO: The -- he is sponsoring the  
2 GE --

3 CHAIRMAN JACZKO: Okay.

4 CHUCK CASTO: assessment, so I asked him  
5 last night to try to get that to TEPCO as quickly as  
6 possible.

7 CHAIRMAN JACZKO: Okay.

8 CHUCK CASTO: In fact, Jeffrey Unwalt  
9 (phonetic) is here this morning. He is here to see  
10 the Ambassador. But that leads to another sort of  
11 organizational issue. We have so many vendors here  
12 now and organizations, that it's not clear who is  
13 working on what.

14 So my next attempt is I'm going to try to  
15 have a technical cooperation meeting, among all the  
16 vendors, and organizations, as soon as I can get that  
17 put together, so that if they are willing to talk --  
18 now I understand that there is, you know, competition  
19 among AREVA and Shaw and them, for the long term, but  
20 we are not going to talk about the long term stuff,  
21 (Indiscernible, possibly "moving that fuel"). I want  
22 to talk about the immediate issues.

23 CHAIRMAN JACZKO: Yes.

24 CHUCK CASTO: And it would be helpful to  
25 understand what each of us are working on so I am

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1 going to try to put together a technical cooperation  
2 meeting as soon as I can get it put together, because  
3 I, you know, I can't -- they're very difficult to deal  
4 with these different evaluations that show data all  
5 over, you know, on each extreme. So I'm trying -- I'd  
6 like to try to get these organizations working  
7 together a little bit closer.

8 CHAIRMAN JACZKO: Okay. What in terms of  
9 unit 1, if, do you have a leak, have we seen any  
10 releases as a result of that or any increased  
11 radiation levels?

12 CHUCK CASTO: No, not -- no, not that I  
13 know of. We are asking some questions. The -- as I  
14 spoke, I think, with you yesterday, we were asking  
15 some questions of how long can feeding -- we are not  
16 seeing any increases as far as I know, everything is  
17 actually going down obviously, with the half life  
18 going down on, you know radiation and airborne and  
19 everything is actually trending down quite nicely.

20 But I -- we are asking some questions  
21 about -- as you and I spoke yesterday about what a re  
22 the consequences of long-term feed and bleed --

23 CHAIRMAN JACZKO: Yes.

24 CHUCK CASTO: And if the flooding, what's  
25 the marginal difference between releases between

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1 flooding, and where do the lines intersect and -- or  
2 do they stay parallel, and what is the magnitude of  
3 the difference.

4 CHAIRMAN JACZKO: Yes.

5 CHUCK CASTO: I think Mike Weber was just  
6 talking about that a moment ago with the team back  
7 there and looking at that, and then Sandia is trying  
8 to run that difference quantitatively. So we are  
9 trying to understand, you know, are we beyond the  
10 point, is it overtaken by events, flooding, especially  
11 now that you know, one containment may have a leak,  
12 they may actually be, you know, essentially flooding  
13 anyhow. So there could be some point down the road  
14 where flooding is just, you know, overtaken by events  
15 or the marginal difference between that and feed and  
16 bleed is minimal.

17 CHAIRMAN JACZKO: No, I mean at this point  
18 if they have got a 20 percent leak in containment,  
19 then essentially they are feeding and continuously  
20 bleeding, and I mean, they'd be continuously venting  
21 at that point, wouldn't they?

22 CHUCK CASTO: Right. Right.

23 CHAIRMAN JACZKO: Yes.

24 CHUCK CASTO: That's right. And if they  
25 do have that leak, then I don't know, for me, hydrogen

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1 would be going out the leak, if there is a leak. We  
2 are not convinced yet that there is a leak, but they  
3 are trying -- the last I heard they were trying to  
4 reduce injection to raise reactor temperature and  
5 pressure, to see if they could get containment  
6 pressure back up to put more steam in the containment  
7 to see if there is a leak. But I hadn't heard the  
8 latest on that.

9 CHAIRMAN JACZKO: What else would -- I  
10 mean, could they have that indication, what else would  
11 be registering such a low containment pressure?

12 CHUCK CASTO: It probably actually is  
13 dropping. Now, whether that is because they are  
14 losing decay heat and they are condensing steam, or  
15 it's a leak, I'm not sure we are --

16 CHAIRMAN JACZKO: Okay.

17 CHUCK CASTO: you know, we actually know  
18 what is causing the drop in containment pressure.

19 CHAIRMAN JACZKO: I guess the numbers I  
20 saw, would they be at sub-atmospheric, if the numbers  
21 were right?

22 MIKE WEBER: No, I think your reading  
23 (inaudible) pressures, right?

24 CHAIRMAN JACZKO: What's that? I'm sorry  
25 Mike?

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1 MIKE WEBER: Yes, I think they are still  
2 above atmospheric.

3 CHAIRMAN JACZKO: Oh, okay. Okay, good.  
4 Okay.

5 CHUCK CASTO: So it all depends, if the  
6 steam is condensing -- it depends on whether they are  
7 at saturation or not, in the containment, and I don't  
8 know that we know that.

9 CHAIRMAN JACZKO: Yes, okay.

10 CHUCK CASTO: So it could either be  
11 condensation of the steam or it could be a leak and we  
12 need to work on trying to verify which it is and how  
13 big of a leak it is and what the hydrogen pressure --  
14 hydrogen concentration is.

15 CHAIRMAN JACZKO: Yes. Okay.

16 CHUCK CASTO: Those are some of the  
17 questions that we are dealing with.

18 CHAIRMAN JACZKO: Okay. So what do you  
19 need from us right now Chuck? What -- I think you  
20 have given instructions to the team. Anything you  
21 need from me right now?

22 CHUCK CASTO: I don't think so. I think,  
23 I am not certain of the details. I know -- and maybe  
24 Mike can help me out -- (b)(5)

25 (b)(5)

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1 (b)(5)

2  
3  
4  
5  
6 (b)(5)

7 So I need to get in today and understand  
8 what that means.

9 Their reason, I guess, to simply put it,  
10 for turning down that request was that it's just  
11 unnecessary, that there is not a challenge to Tokyo,  
12 and so it's unnecessary to make that run.

13 CHAIRMAN JACZKO: Yes, I think that's the  
14 sense of where people are, is that they are not  
15 necessarily doing things. I think there is a sense  
16 that we have got kind of bounding cases at this point  
17 so --

18 CHUCK CASTO: Right.

19 CHAIRMAN JACZKO: additional runs don't  
20 necessarily tell us anything new in terms of, I think  
21 the general sense is that if the event were to  
22 progress in a negative way, we would have some  
23 triggers, and they would see us breaking rad levels,  
24 probably some change of personnel at the site, and  
25 then possibly an inability to maintain the pools and

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1 then some period of time before the pools could go to  
2 a more serious event.

3 So I think that's what everybody is kind  
4 of envisioning as kind of the worst case, and  
5 everything short of that is probably not challenging  
6 Tokyo.

7 CHUCK CASTO: Right. I think we all agree  
8 on that. (b)(5)

9 (b)(5)

10 CHAIRMAN JACZKO: Okay.

11 CHUCK CASTO: (b)(5)

12 (b)(5)  
13  
14  
15  
16

17 CHAIRMAN JACZKO: Yes, okay.

18 CHUCK CASTO: (b)(5)

19 (b)(5)  
20  
21

22 CHAIRMAN JACZKO: If you need me to talk  
23 to him, I'm happy to talk to him too.

24 CHUCK CASTO: Certainly.

25 CHAIRMAN JACZKO: Okay. So it looks like,

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1 Chuck, for your focus today, it's continuing to kind  
2 of resolve the feed and bleed versus flooding, and  
3 then working to understand the unit 1 containment  
4 issue, and then the crack in the unit 2 reactor  
5 building, wherever that is, in the turbine building,  
6 wherever that leak is, that's coming out.

7 CHUCK CASTO: And technical cooperation  
8 among the organizations.

9 CHAIRMAN JACZKO: Okay. Okay, good. I  
10 hate to ask you this Chuck. Has the Logistics Support  
11 Team been staffed yet or not?

12 CHUCK CASTO: I don't think they are here  
13 yet. JFOR. But we are making progress in that area.

14 CHAIRMAN JACZKO: Okay.

15 CHUCK CASTO: Mark wall, Mark Wall from  
16 AIB is doing a terrific job on that. So when they get  
17 here -- and I think what they are doing is they are  
18 wanting JFOR to get here before DART leaves, and right  
19 now DART is handling it, but they are not going to be  
20 here forever.

21 CHAIRMAN JACZKO: Yes, okay. Good. Okay.  
22 Well, keep me posted on that. If I need to push on  
23 that again, just let me know and I will.

24 CHUCK CASTO: Yes sir.

25 CHAIRMAN JACZKO: Okay.

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1 MIKE WEBER: Hey Chairman and Chuck, the  
2 feed and bleed analysis, we think we have all the  
3 concurrences from the consortium members including  
4 Naval Reactors and DOE on it, so --

5 CHAIRMAN JACZKO: Oh good. That's great.

6 MIKE WEBER: So they are going to be  
7 coming in here and briefing us momentarily and then we  
8 should clear that to send over to you so you can  
9 discuss it among your team there, Chuck, and then  
10 discuss it with our Japanese counterparts.

11 CHAIRMAN JACZKO: That's great.

12 CHUCK CASTO: That's great progress.  
13 Mike, if you know if that includes just unit 1 or more  
14 source terms than that.

15 MIKE WEBER: Well, this is the mitigating  
16 strategies document.

17 CHUCK CASTO: Right. But does it include  
18 all three reactors?

19 MIKE WEBER: That's what I understood, but  
20 I haven't seen the document yet. So --

21 CHUCK CASTO: Okay.

22 MALE PARTICIPANT: Well, that will be  
23 great to have that, and then if we can couple that  
24 with the Sandia analysis, then we have both a  
25 qualitative and a quantitative analysis of feed and

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1 bleed long-term, and then I think at that point we are  
2 able to make a presentation to the Chairman on where  
3 we are at from a more scientific or, you know, a more  
4 certainty, a little more certainty perspective.

5 CHAIRMAN JACZKO: Good. That's great.

6 (Multiple speakers)

7 MALE PARTICIPANT: Sandia is here,  
8 obviously, doing their work.

9 CHAIRMAN JACZKO: Good, well, Chuck it  
10 sounds like you have a path forward for today and keep  
11 me posted, again, if you need me to weigh in on  
12 anything, and keep up the good work.

13 CHUCK CASTO: Yes sir, and have a good  
14 trip to Vienna.

15 CHAIRMAN JACZKO: Okay good. Thanks, and  
16 I'll still be, I'll actually probably be more easily  
17 accessible because I'll be only six hours' difference  
18 when I am in Vienna. So --

19 MIKE WEBER: Yes.

20 CHUCK CASTO: We'll have to (inaudible)  
21 three times, but the HOO is always there. So we can  
22 always count on them.

23 CHAIRMAN JACZKO: Yes, good. Well thanks  
24 Chuck and again, just call if you need anything.

25 CHUCK CASTO: Thank you sir.

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1 CHAIRMAN JACZKO: Okay. Thanks Mike.

2 MIKE WEBER: Thank you sir. Bye bye. Hey  
3 Chuck, do you need anything from us, or --

4 CHUCK CASTO: No, I think you got it. I  
5 think you understand this questions of you know, feed  
6 and bleed and versus flooding and --

7 MIKE WEBER: Right.

8 CHUCK CASTO: Hopefully if we get your  
9 assessment and Sandia's quantitative assessment, we'll  
10 have a picture of you know, what is the hazard and  
11 then we can brief people on it and make some decisions  
12 from there, you know, like what do we do with team  
13 size and etcetera.

14 MIKE WEBER: Okay. And I know our PMT is  
15 also looking at radiation profiles around the country,  
16 and demonstrating continued reduction of radiation  
17 levels.

18 CHUCK CASTO: Yes, that's my  
19 understanding, is it's all trending downwards.

20 MIKE WEBER: Yes.

21 CHUCK CASTO: Awesome.

22 MIKE WEBER: Okay.

23 CHUCK CASTO: Hey Mike, I appreciate the  
24 conversation we had. That was great.

25 MIKE WEBER: Yes, I do too. It helped me

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1 understand things a lot better.

2 CHUCK CASTO: Yes sir. I'll be talking to  
3 you soon. We are in the office all day so just give  
4 us a call if you need anything.

5 MIKE WEBER: Okay, thanks.

6 CHUCK CASTO: Thank you sir.

7 MIKE WEBER: Have a good day.

8 FEMALE PARTICIPANT: Have a good day  
9 Chuck.

10 CHUCK CASTO: Yes, bye.

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

Title: Japan's Fukushima Daiichi ET Audio File

Docket Number: (n/a)

Location: (n/a)

Date: Sunday, April 3, 2011

Work Order No.: NRC-1723

Pages 1-165

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 SUNDAY

7 APRIL 3, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Operation (inaudible)  
line. How may I help you?

BRIAN McDERMOTT: Hey, John, it's Brian  
McDermott.

MALE PARTICIPANT: Sure. You want to be  
put up on the bridge?

BRIAN McDERMOTT: Yeah, would you put me up  
on that bridge, please?

MALE PARTICIPANT: Okay, transferring now.

BRIAN McDERMOTT: Thanks.

(No conversation.)

TELEPHONE RECORDING: I'm sorry, we did not  
get your name. After you state your name, please  
press the pound key.

BRIAN McDERMOTT: Executive Team Room.

TELEPHONE RECORDING: This call may be  
recorded. After the tone, please state your name and  
organization followed by the pound key.

(Inaudible.)

BRIAN McDERMOTT: I should have brought  
that in. Oh, well. Okay.

FEMALE PARTICIPANT: Okay, folks. I guess  
I heard INPO, the Site Team, GE Hitachi.

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1 Did we pick up EPRI or Naval Reactors?

2 TELEPHONE RECORDING: I'm sorry, we did not  
3 get your name. After you state your name, please  
4 press the pound key.

5 RANDY CRANE: INPO, Randy Crane.

6 BRIAN McDERMOTT: EPRI has informed me that  
7 they won't be joining the call.

8 FEMALE PARTICIPANT: Understand. Thank  
9 you.

10 TELEPHONE RECORDING: I'm sorry, we did not  
11 get your name. After you state your name, please  
12 press the pound key.

13 MALE PARTICIPANT: GE Hitachi.

14 MALE PARTICIPANT: Are we on mute?

15 (Inaudible.)

16 FEMALE PARTICIPANT: Okay, hopefully we can  
17 stop telling our name and hitting the pound key.

18 (No conversation.)

19 MALE PARTICIPANT: Who's on this line?

20 TELEPHONE RECORDING: Transferring.

21 MALE PARTICIPANT: Hello, who's on this  
22 line?

23 MALE PARTICIPANT: GE Hitachi.

24 MALE PARTICIPANT: Yeah, you guys are the  
25 ones buzzing the conference. I'm going to put you

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1 back in as soon as it clears up.

2 MALE PARTICIPANT: All right, thank you.

3 MALE PARTICIPANT: Are you guys on a  
4 speaker phone or something?

5 MALE PARTICIPANT: Yes, we are.

6 MALE PARTICIPANT: Okay. Yeah, I know  
7 you've used it before. Let me go ahead and place you  
8 back in and see if that's you.

9 MALE PARTICIPANT: Thank you.

10 MALE PARTICIPANT: Okay, but you are muted  
11 right now. Stand by.

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1  
2  
3 (CONFERENCE CALL INITIATED)

4 TELEPHONE RECORDING: Transferring. This  
5 call may be recorded. After the tone, please state  
6 your name and organization followed by the pound key.

7 MALE PARTICIPANT: NRC ET bridge.

8 TELEPHONE RECORDING. I'm sorry, we did  
9 not get your name. After you state your name, please  
10 press the pound key.

11 MALE PARTICIPANT: NRC Executive Team.

12 (No conversation.)

13 MALE PARTICIPANT: Who am I speaking to?

14 MALE PARTICIPANT: You've got the ET room.

15 MALE PARTICIPANT: Okay, yeah. We're going  
16 to - we're going to have to - you guys are going to  
17 have to call back in again.

18 Somebody is killing - we just had the  
19 Japan team drop off. They're going to a different  
20 phone.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: Okay.  
23  
24  
25

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(CONFERENCE CALL INITIATED)

TELEPHONE RECORDING: Transferring. This call may be recorded. After the tone, please state your name and organization followed by the pound key.

MALE PARTICIPANT: Executive Team Room.

FEMALE PARTICIPANT: We're going to hang up and you're all set.

MALE PARTICIPANT: Okay. I'm so easily confused, okay. Do we have the - is this the RST bridge.

MALE PARTICIPANT: Yeah, it's RST bridge and RST is on the bridge.

MALE PARTICIPANT: INPO is on the bridge.

MALE PARTICIPANT: Okay. So, we're going to - I think the (inaudible) there or somebody was trying to link us - put us on the - I don't know.

Who else is on the line?

MALE PARTICIPANT: INPO is still here.

MALE PARTICIPANT: Okay. So, are we good to proceed here, or are we still waiting on something?

FEMALE PARTICIPANT: Okay. We're going to go ahead and just in case the air raid siren comes back -

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1 MALE PARTICIPANT: Yeah (inaudible) Japan  
2 team?

3 FEMALE PARTICIPANT: Yes, they're there.

4 While we got everybody, Mike and guys, do  
5 you think you guys can go ahead and get us started on  
6 where -- the latest info on the status of the units?

7 MALE PARTICIPANT: Yeah, that's easy. The  
8 latest info is what we gave you 24 hours ago because  
9 they are - the Japanese chose not to meet with us  
10 today.

11 And despite having promised to give us  
12 some -- electronically their latest plant status  
13 updates, we have not received anything.

14 So, we have no plant status update for  
15 today.

16 FEMALE PARTICIPANT: Understand. No plant  
17 status update for today.

18 MALE PARTICIPANT: Hopefully we'll be back  
19 to normal tomorrow since they'll be back to doing  
20 their 11 o'clock in the morning meetings with us.

21 FEMALE PARTICIPANT: Okey-doke.

22 MALE PARTICIPANT: So, we can talk about  
23 documents and issues and stuff like that.

24 Do you want me to start?

25 FEMALE PARTICIPANT: I think we got it,

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1 yeah. We've got the - we sent out Option B documents  
2 to address the Elmo Collins questions.

3 MALE PARTICIPANT: Right.

4 FEMALE PARTICIPANT: And we wanted to see  
5 what your guys' comments was on that. Just to give  
6 you a little heads up, what we did is we added the  
7 input we had received from INPO and GEH late last  
8 night. And then some of it appeared to be redundant,  
9 which was also a comment we got from - I think it was  
10 GE.

11 And so, we took the opportunity to move  
12 some things around and to combine stuff that was  
13 redundant. So, the document you have is the results  
14 of that effort.

15 So, we were looking for feedback,  
16 comments, corrections.

17 MALE PARTICIPANT: Yeah, I have one off the  
18 cuff. It says, shoot in the dark. Beware of slang  
19 when - if we're going to communicate this to the  
20 Japanese.

21 FEMALE PARTICIPANT: Understand. Which  
22 item are you referring to?

23 MALE PARTICIPANT: First page. Assessing  
24 critical plant conditions under Pro.

25 FEMALE PARTICIPANT: Understand. We will

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1 take the local color out.

2 MALE PARTICIPANT: Yeah.

3 MALE PARTICIPANT: We just got it.

4 MALE PARTICIPANT: Tell you what, we'll  
5 take a look at it and we'll give you whatever comments  
6 we have shortly.

7 FEMALE PARTICIPANT: Thank you very much.

8 GE, INPO, do you guys have any comments or  
9 questions based on your brief look?

10 MALE PARTICIPANT: Can you - what's the  
11 title on this? Is this Rev C?

12 FEMALE PARTICIPANT: No, this one at the  
13 bottom should say consolidations 0130EDT. And it's  
14 dated in the right bottom corner, April 3rd, 2011.

15 MALE PARTICIPANT: Okay. We'll have to go  
16 retrieve that.

17 FEMALE PARTICIPANT: Understand.

18 RANDY CRANE: This is Randy at INPO, and  
19 I'm just curious as to what is the intent for this  
20 document? Is it for the consortium's input just so  
21 that we have, you know, prematurely - or not  
22 prematurely, but looked forward, or is this something  
23 that we intend on submitting to the Japanese  
24 government when they formally say they're not going to  
25 vent?

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1 MIKE SCOTT: Well, this is Mike Scott.  
2 I'll answer that question.

3 First of all, they are not likely to say  
4 to us, we are not going to vent. I don't see that  
5 happening.

6 Instead, what they are saying, what they  
7 have said, is that the decision to vent and to flood  
8 would be a very big high-level government decision and  
9 they will bear in mind our points of view.

10 And that may mean that they defer flooding  
11 and venting until they get the nitrogen inerting done,  
12 but they're not going to tell us they're not going to  
13 flood and vent.

14 But the consortium has expressed concerns  
15 about the, you know, day-in-day-out continuance of  
16 this flow rate that they view as murder and we believe  
17 may well be below murder.

18 The consortium has expressed concern about  
19 it and the Japanese have said, yeah, we hear you, we  
20 understand your rationale. Of course we don't think  
21 we have an explosive mixture in Unit 1. And for a  
22 variety of other reasons, we're not prepared to flood  
23 and vent.

24 So, then - and this came from Elmo Collins  
25 who has just come out here and is one of the senior

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1 managers here. He said, well, okay, if they choose  
2 not to flood and vent, and again that would not be  
3 something they would announce to us, but if they in a  
4 defacto manner choose not to flood and vent, what  
5 additional advice can we offer them to minimize the  
6 chance of either an energetic event or a major release  
7 of radioactivity or radioactive contamination which  
8 probably would be one in the same thing?

9 So, that's what this task is about. Did  
10 that answer your question?

11 RANDY CRANE: Almost. So, the intent would  
12 be to give them this paper, or this would serve as a  
13 basis for a future drafted paper?

14 MIKE SCOTT: I think, yes, we want to be  
15 able to give them a paper, which means it needs to be  
16 clear.

17 RANDY CRANE: Okay, got it.

18 MIKE CASE: Hey, Mike, this is Mike Case.  
19 We'll need to think about that a little bit, you  
20 know. Right now it's pretty brief, it's in table  
21 format. So, it doesn't do a lot of explaining.

22 So, you know, maybe we ought to - well,  
23 we'll think about that and talk about that further.

24 MIKE SCOTT: Yeah, brief is okay, Mike. I  
25 mean, clarity is important especially when we got the

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1 cross-language issues.

2 MIKE CASE: Right.

3 MIKE SCOTT: Brief and to the point is  
4 good, but obviously there needs to be some basis for  
5 whatever we give them.

6 MIKE CASE: Okay.

7 MIKE SCOTT: Don't make this - I don't want  
8 another - and I don't think Elmo wants a 15-page  
9 diatribe here. It's short and sweet to say you might  
10 consider this, you might consider that, you might  
11 consider the other thing and here's why.

12 MIKE CASE: Okay, well, you have our, you  
13 know, take what we have and give us some comments and  
14 that will help steer us.

15 MIKE SCOTT: We'll do that.

16 FEMALE PARTICIPANT: Okay. We have another  
17 document that we wanted to discuss. The only one that  
18 I think that we sent out was the 0130EDT version,  
19 consolidated version of this Option B document.

20 Mike, you sort of inferred that there may  
21 have been another document that you wanted to discuss.

22 MIKE SCOTT: Well, let's go over what I  
23 heard this morning 12 hours ago. I guess it was -  
24 well, more or less 12 hours ago - or eight hours ago  
25 regarding what's in progress back there.

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1 Of course at the time they were working on  
2 Q385, which we now have and which we have sent to the  
3 Japanese and copied you. So, Q385 is out the door.

4 There is somewhat of a, from our  
5 perspective, a lack of clarity on the format of the  
6 table that's in there, but I think we're just going to  
7 have to explain that to them verbally.

8 In other words, it's not clear to me  
9 looking at it, what the right-hand column means in  
10 that table.

11 We understand from RST verbally that that  
12 is GEH's result of their peer review of it. So, it's  
13 all internal to them. But in any event, the table  
14 purpose is not crystal clear.

15 So, I'll explain that to them verbally  
16 tomorrow because I wanted to get it in their hands.

17 MALE PARTICIPANT: Okay, good. Thank you.

18 MIKE SCOTT: So, that one they have. We of  
19 course just discussed the Elmo document which is -  
20 what do they call it?

21 MALE PARTICIPANT: Option B.

22 MIKE SCOTT: Option B. So, we'll rename it  
23 "Option B" instead of Elmo, and that will make Elmo  
24 happy.

25 And so, you're working on that. You're

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1 going to get comments from us. And you're going -  
2 what they told us this morning was that they estimate  
3 we'd have that one done tomorrow.

4 FEMALE PARTICIPANT: That's reasonable if  
5 it's an internal document. If we want to send it to  
6 the Japanese, we may have to talk about that offline  
7 what that format would look like.

8 MIKE SCOTT: Well, that's fine, but I think  
9 the intent here is to get something to the Japanese.  
10 So, I think we're clear - I hope we're clear on that  
11 and understand you want to discuss the format offline.  
12 No problem.

13 FEMALE PARTICIPANT: Understand.

14 MIKE SCOTT: The other document, let's see.  
15 There was the question from the Japanese on what does  
16 - what - yeah, what does Stage 1 stability look like?

17 In other words, what - how do we get to  
18 the point where we're not worried about an additional  
19 energetic event or an additional high-release event?  
20 And that was one that you were - that they told us  
21 this morning they were going to - the consortium was  
22 going to start working on Monday.

23 FEMALE PARTICIPANT: Right.

24 MIKE SCOTT: So, we're on hot standby on  
25 that one.

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1 And the final document under production is  
2 the spent fuel pool evaluation which is in progress,  
3 but evidently slipped down the priority pole a little  
4 bit.

5 And what we were told was that you all in  
6 this call would provide us an estimated completion  
7 time/date or whatever for that document. So, that one  
8 we're interested in hearing status on.

9 FEMALE PARTICIPANT: I believe that  
10 currently that will be a Tuesday deliverable.

11 MIKE SCOTT: Do we go a problem with that,  
12 spent fuel pool?

13 MALE PARTICIPANT: It is what it is.

14 MIKE SCOTT: Okay. So, we understand  
15 Tuesday deliverable. And, again, this is to be given  
16 to the Japanese, right?

17 FEMALE PARTICIPANT: Um, we'll talk about  
18 that, yeah. That's probably doable.

19 MALE PARTICIPANT: Yeah, that one we had  
20 more conceptually in that category.

21 FEMALE PARTICIPANT: Right.

22 MIKE SCOTT: Okay. You know, generally our  
23 default is once you're proud of it, then we should  
24 give it to the Japanese.

25 MALE PARTICIPANT: I think, you know, I've

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1 seen just a couple drops of it and I haven't looked at  
2 it in detail, you know.

3 One of the things that's really important  
4 that I think we did really, really well on the  
5 original RST of the Rev 1 was explaining our  
6 understanding of the conditions in the spent fuel  
7 pool, you know.

8 So, I think it's really important that we  
9 have that good lead in and backdrop with regards to  
10 our understanding of the conditions in the pool.

11 So, just make sure we've got that focus  
12 because if they disagree with the positions of what we  
13 think those conditions (inaudible), we want to make  
14 sure that they understand our logic so they can  
15 (inaudible).

16 FEMALE PARTICIPANT: Thanks, Rob.

17 MIKE SCOTT: Moving on just as kind of a  
18 sidebar, we continue to receive copious requests for  
19 information and technical analysis from various, let's  
20 say, sources in the Navy.

21 And we answered a few of them verbally  
22 today and I answered, one by email and got bunches of  
23 more questions in response to my response.

24 I discussed that with Chuck Casto who  
25 directed me to not do that anymore, but rather to

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1 forward requests from the Navy to the RST.

2 So, you have one that came in from  
3 Lieutenant Commander Mercer (phonetic) and I sent it  
4 to you all here probably been an hour ago. It's about  
5 six pages of questions from them.

6 We have, however, looked at it, but we are  
7 looking at it to see if there is any insight in that  
8 series of questions that would cause us to think again  
9 about what we looked at so far.

10 But per direction from the team lead, I  
11 don't plan to reply to Lieutenant Commander Mercer  
12 with an answer to his questions. And I assume and  
13 would ask for confirmation that the RST will handle  
14 that.

15 MALE PARTICIPANT: Yeah, Mike, we've got  
16 them. What are your thoughts, you know, I'm trying to  
17 understand what they're trying to do.

18 MIKE SCOTT: I think they've got a whole  
19 bunch of people, a whole bunch of nuclear-trained  
20 people who would like to participate in this process  
21 and are both checking up on their own state of  
22 knowledge and perhaps double-checking ours to help us  
23 out.

24 Unfortunately, there are enough different  
25 points on the compass here where this stuff comes in

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1 that it could become a full-time job for us to be on  
2 the phone with and reply to them if we focus on  
3 answering them.

4 I'm happy, maybe even ecstatic, to have  
5 other people who weigh in and say, you know, you ought  
6 to think about this and you ought to think about that.

7 What I don't want to do is get in the mode  
8 of sending them written, you know, responses that say,  
9 you know, here's our analysis so you can review it  
10 too.

11 So, that's kind of a distinction. We like  
12 the inputs, but we don't want to - we don't want to  
13 get taxed with, you know, detailed responses which  
14 occupy our time.

15 MALE PARTICIPANT: Yeah, well, we're sort  
16 of in the same position too. So, you know, we'll take  
17 them and then we'll figure out what we're going to do  
18 with them, but my tendency is we need to find a place  
19 to divert them to other than us.

20 MIKE SCOTT: I agree with you. I don't  
21 know how that's done. Don't you have a naval reactors  
22 person in your consortium?

23 FEMALE PARTICIPANT: Great minds think  
24 alike.

25 MALE PARTICIPANT: Yeah, they're secured

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1 for the weekend. So, they come in once per day. So,  
2 we'll get on them.

3 MIKE SCOTT: Yeah, and they ought to, you  
4 know, they're on the consortium. So they, you know,  
5 if there are going to be inputs from all over from the  
6 Navy, it would seem that we ought to provide - I ought  
7 to have a, you know, ideally here's a thought. Just  
8 you all send us an email address for their consortium  
9 person and any and all Navy requests, well, we'll  
10 funnel right to him or her.

11 How would that work?

12 MALE PARTICIPANT: Well, yeah, we'll work  
13 it, Mike, but that's a great idea.

14 MIKE SCOTT: Just a thought. And whatever  
15 works for you that's not going to tax us, we're good  
16 to go.

17 MALE PARTICIPANT: Right.

18 MIKE SCOTT: So, I just wanted to discuss  
19 that. What else we got, guys?

20 MALE PARTICIPANT: Yeah, (inaudible) this  
21 issue that you had a document that said how far you  
22 could flood -

23 MIKE SCOTT: Oh, yeah. We still don't have  
24 the document from GE that was going to provide a table  
25 or a graph or something for, you know, guidance on

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1 what the pressure impact of a flooding would be in the  
2 drywell.

3 Is that still forthcoming, or did that  
4 fall through the cracks?

5 GLEN WATFORD: No, it hasn't - this is Glen  
6 Watford with GE Hitachi. It hasn't fallen through the  
7 cracks. The difficulty is in the wide variability of  
8 the results as a function of the initial conditions of  
9 the containment.

10 MALE PARTICIPANT: like how much  
11 (inaudible) leakage is?

12 GLEN WATFORD: How much leakage, what the  
13 different concentrations in the air space are relative  
14 to condensable, non-condensable.

15 You can get an extremely wide variety of  
16 answers depending on those assumptions. And it's not  
17 clear to me right now that there is a significant  
18 benefit in trying to provide that especially given the  
19 current trend that continues to show a reduction in  
20 the drywell pressure and (inaudible) chamber pressure.

21 MIKE SCOTT: Okay, well, so my only obvious  
22 concern here is that we close the loop with them since  
23 I did indicate this was forthcoming.

24 Have you reached a conclusion that it will  
25 not be forthcoming, or are you still noodling on it?

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1 GLEN WATFORD: No, I think shortly before  
2 this call we were reviewing it and it reached the  
3 conclusion that we don't see an end point in being  
4 able to provide something that would be of value.

5 MIKE SCOTT: Okay. So, GEH does not  
6 currently believe - help me with the words here.  
7 Believe that there's value added or that it's feasible  
8 to provide guidance on the subject or, you know.

9 FEMALE PARTICIPANT: Mike, maybe it would  
10 be better if we send you some work to the site for  
11 that, but I think what they're trying to say is that  
12 the results would be so uncertain as to not be useful.

13 MIKE SCOTT: Okay. So, I'm all over that  
14 one. So, the RST will send Japan words to close loop  
15 on drywell flood-up guidance, right?

16 FEMALE PARTICIPANT: Yeah. We'll talk with  
17 GE, but I think we understand what they're saying.  
18 We'll provide some words for you to provide to the  
19 Japanese.

20 MIKE SCOTT: Outstanding. Thank you.  
21 that's very helpful.

22 What else? What else do we have?

23 FEMALE PARTICIPANT: All right.

24 MIKE SCOTT: By the way, let me mention  
25 have you all seen anything about the press about the

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1 big leak into the sea they've got going?

2 FEMALE PARTICIPANT: That was going to be  
3 my next question. What do you know about the big leak  
4 into the sea?

5 MIKE SCOTT: I've seen pictures of it. I  
6 went to a meeting this afternoon on the subject.  
7 There is a lengthy electric cable raceway that runs  
8 down to or from the intake structure. And there's a  
9 concrete vault in that structure that is leaking - or  
10 that has a, you know, might look like an outfall in it  
11 of highly radioactive water to the tune that the  
12 radiation levels a few feet from it are about a  
13 hundred rem per hour.

14 So, there is clearly very highly  
15 contaminated water coming down that raceway and  
16 getting out.

17 Now, when you look at their drawings, the  
18 raceway is at - at the turbine building, it is above  
19 the water level in the turbine building. So, the leak  
20 is - there's obviously communication somewhere between  
21 where the raceway leaves the turbine building and it  
22 gets to the intake structure.

23 And the Japanese believe that that  
24 communication is with the - what they call the  
25 seawater cooling system. So, I'm assuming it's the

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1 SIRC (phonetic) water system. So, they don't know  
2 exactly where that communication is occurring.

3 Meanwhile, they tried to pour a bunch of  
4 concrete in that vault out at the intake structure,  
5 but it did not stop or even necessarily impede the  
6 leak.

7 So, they concluded there's enough debris  
8 between the top of that vault and wherever that leak  
9 is that it's not - they were not successful.

10 So, they're going to - they're going to  
11 basically break open a row for that raceway closer up  
12 to the turbine building for Unit 2 and dump a bunch of  
13 stuff in there followed by concrete to try to stop the  
14 leak there.

15 And if you look, we do have a photo of the  
16 leak and it's substantial.

17 MALE PARTICIPANT: It's not a leak. It's -  
18 I don't know how many (inaudible) gallons per --  
19 hundreds of gallons per minute?

20 MIKE SCOTT: Well, I don't know about  
21 hundreds, but quite a few. It's a significant amount  
22 of water coming out of this vault.

23 So, that's what I know about it. They're  
24 still working on trying to stop it.

25 MALE PARTICIPANT: Thanks for that, Mike.

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1 MIKE SCOTT: Okay. What else can we tell  
2 you?

3 MALE PARTICIPANT: This is on the, you  
4 know, helping us out there's a couple of issues where  
5 we sort of want to understand better what, you know,  
6 sort of the rationale for some of the things that the  
7 Japanese say.

8 And I think we talked about them last  
9 night, at least one of them. And are you guys going  
10 to talk to them about their basis for how they come up  
11 with those hydrogen numbers?

12 MIKE SCOTT: Yeah, of course part of that  
13 is the fact that they assume that the - they believe  
14 that the Unit 1 containment is leaking ten to 30  
15 percent of its volume daily.

16 You knew this, right?

17 MALE PARTICIPANT: Yeah, we knew that, but  
18 that's sort of the second one. We're looking for some  
19 sort of information of how do they, you know, what's  
20 the basis for them establishing that leakage rate?

21 MIKE SCOTT: So, you want to know - want  
22 some idea of the basis for their conclusion regarding  
23 that leak rate.

24 MALE PARTICIPANT: Right, the leak rate and  
25 the hydrogen.

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1 MIKE SCOTT: Well, I think the leak rate  
2 (inaudible) the hydrogen, but I'll ask the question.

3 And this is on Unit 1, right?

4 MALE PARTICIPANT: Correct.

5 MIKE SCOTT: Okay, I'll ask again.

6 MALE PARTICIPANT: Hey, Mike, just for  
7 curiosity on my part, is it because you don't believe  
8 that's true, or because you're more curious and  
9 (inaudible) factor into our assessment?

10 MALE PARTICIPANT: Well, let me answer that  
11 question as I would answer it. They've reached the  
12 conclusion that they don't have an explosive mixture.  
13 And, therefore, they're not particularly concerned.

14 We think they do have an explosive  
15 mixture. So, this is a key point.

16 MIKE SCOTT: What do you want to add to  
17 that there, Mr. Case?

18 MIKE CASE: Well, that's exactly it. We're  
19 trying to understand how they came to their  
20 conclusion.

21 MIKE SCOTT: Okay, fair enough. We'll see  
22 what we can do. And I don't know where it will go,  
23 but we'll ask questions.

24 MALE PARTICIPANT: Well, I guess my  
25 question was a little bit broader was have you looked

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1 - their conclusion was that it was based on the trends  
2 in the pressure dropping and continuing to drop.

3 And your assessment of - have you guys  
4 looked at that to see if you can reach the same  
5 conclusion, or have you - that's what I'm trying to  
6 understand.

7 Have you reached some different conclusion  
8 that you don't think it's there, or are we just  
9 looking for information to see if we can substantiate  
10 it and see how it feeds in?

11 So, I was wondering if anybody had  
12 (inaudible) this ten to 30 percent on - back home to  
13 see if we thought it was likely.

14 FEMALE PARTICIPANT Well, Rob, like we  
15 discussed yesterday, you know that (b)(4)

16 (b)(4)  
17  
18

19 And, GE, you can speak for yourself, but I  
20 don't think it was done last time we were on shift.  
21 GE, do you have comments on the hydrogen-oxygen  
22 concentration estimates?

23 MALE PARTICIPANT: I don't know that those  
24 were updated. At the shift turnover, that was not  
25 discussed that those were being updated to take into

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1 account any leakage.

2 FEMALE PARTICIPANT: I understand.

3 MIKE CASE: You know, that is actually a  
4 valid way of thinking about this, though. I'm glad  
5 Rob brought it up.

6 So, here's a question, and it's kind of  
7 implied in what he asked: So, if we assume that (b)(4)

8 (b)(4)

9  
10 MALE PARTICIPANT: This is Jack. Maybe I'm  
11 missing something. (b)(4)

12 (b)(4)

13  
14 MALE PARTICIPANT: Well, that's an answer.  
15 Was that the answer?

16 MALE PARTICIPANT: I thought that was in  
17 your - the writeup that talked about the leakage.

18 (b)(4)

19  
20  
21  
22  
23  
24  
25 MALE PARTICIPANT: And this is Version B or

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1 -

2 MALE PARTICIPANT: It's Q385.

3 MALE PARTICIPANT: Yeah, Q385 essentially  
4 answers the question on why they did it. Now, whether  
5 that's valid or not, I mean, that's what (b)(4)

6 (b)(4)

7 MIKE SCOTT: Did you hear that one, Mike?

8 MIKE CASE: Yeah.

9 MIKE SCOTT: So, Q385 says (b)(4)

10 (b)(4)

11

12 MIKE CASE: Right, so we are - what we're  
13 seeking is we're trying to understand the - how they  
14 came up with the (b)(4)

15 And then we're also interested in what's the basis for  
16 their determination of the hydrogen concentration.

17 MIKE SCOTT: So, you don't see those as  
18 related.

19 MIKE CASE: Right. (b)(4)

20 (b)(4)

21

22

23 MALE PARTICIPANT: Okay, and I tend to  
24 agree. I guess my broader question is I think the  
25 answer they're going to come back with as the high

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1 level is going to be that it's the trend in the  
2 pressure and that the pressure has continued to trend  
3 down and down and down, which they correlated back to

4 (b)(4)

5 And I guess my question more fundamentally  
6 is, do we agree with that given the data we have -

7 FEMALE PARTICIPANT: You know, it's real  
8 hard for folks to make assessments without  
9 information. You know, I think the vendors have done  
10 an excellent job so far guesstimating all these  
11 numbers.

12 But to throw stones at these estimations  
13 without providing additional information to refine it  
14 is to sort of -

15 MIKE SCOTT: Well, I don't think that was  
16 Rob's intent at all.

17 MALE PARTICIPANT: No, it was not.

18 MIKE SCOTT: This is not about throwing  
19 stones.

20 MALE PARTICIPANT: I don't disagree with  
21 any of (inaudible) that has been done.

22 MIKE SCOTT: This is about asking whether  
23 the consortium has considered whether the observed  
24 pressure decreases are consistent with significant A  
25 leak rate from the containment. That's what that's

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1 about.

2 MALE PARTICIPANT: If we're going to go ask  
3 them why they have - (b)(4)

4 (b)(4)  
5  
6

7 I'm not throwing stones at any  
8 assessments. I'm not disagreeing with any  
9 assessments. I'm asking have we looked at it first  
10 before we've asked the question.

11 MALE PARTICIPANT: Or in parallel.

12 MALE PARTICIPANT: Or in parallel. I'm  
13 just asking have we taken a look at it or are we  
14 disagreeing with it and that's why we need to go  
15 understand theirs better.

16 MIKE CASE: The short answer is not to my  
17 knowledge.

18 MALE PARTICIPANT: All right. Thank you,  
19 Mike.

20 MIKE SCOTT: Would you be interested in so  
21 doing?

22 MALE PARTICIPANT: Maybe. We'll talk about  
23 it.

24 MALE PARTICIPANT: Okay, but I think Mike's  
25 other comment is valid. Exactly what we said

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1 yesterday is we're providing a clear document on the  
2 assumption. This is for the hydrogen part.

3 Here's the assumption that the consortium  
4 came up with to say here's why you have an explosive  
5 mixture. You need to do something.

6 NISA, could you share your assumptions  
7 with us so that we can help understand and compare the  
8 assumptions?

9 That's how we're going to come to an  
10 understanding to assist each other. I think that's  
11 valid.

12 MALE PARTICIPANT: And I don't disagree  
13 with the hydrogen assumptions. But given the idea  
14 that we don't think the leak rate changes the partial  
15 pressures, then I'm - I want to make sure we're not  
16 going - we're searching for information that doesn't  
17 change our conclusion.

18 MALE PARTICIPANT: We're kind of wrapping  
19 around the answer here. I think that we agree this is  
20 a key question. We need to ask it of ourselves and we  
21 need to ask it of them. And we can do those things in  
22 parallel, okay.

23 MIKE SCOTT: Okay, we're ready to move on.  
24 You got anything else?

25 MALE PARTICIPANT: Okay, I got one from the

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1 (inaudible). I think probably three nights ago we  
2 talked about the reactor pressure vessel breach  
3 criteria. And I have a slide on my desk from GE that  
4 has what that criteria was.

5 MALE PARTICIPANT: We were asked to see  
6 that.

7 MALE PARTICIPANT: Right, yeah. Have we  
8 got that to you yet?

9 MALE PARTICIPANT: No.

10 MALE PARTICIPANT: Okay, good. Well, we  
11 will probably fax that to you and close out that  
12 particular item.

13 MALE PARTICIPANT: What's it based on?

14 MALE PARTICIPANT: It's that table that if  
15 you have this temperature and this pressure and these  
16 two things happen, then you assume that the vessel is  
17 breached.

18 MALE PARTICIPANT: Okay. Oh, yeah, okay.

19 MIKE SCOTT: Yeah, please do send that on.

20

21 MALE PARTICIPANT: Okay, great.

22 MIKE SCOTT: What else?

23 MALE PARTICIPANT: I think, well, that's  
24 all on my list for you all.

25 MIKE SCOTT: Okay, all right. We'll do a

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1 little noodling - I'm sorry, Jack wants to talk.

2 MALE PARTICIPANT: Yeah, I'll say one  
3 thing. There's one data point that I thought would be  
4 important to bring up. It has to do with some  
5 differences in information we received.

6 We reviewed an INPO document, and I think  
7 the other one is an Ariva (phonetic) document that  
8 generally discusses the event. And it essentially  
9 says that during sometime in the event, either the  
10 14th, 15th or the 16th of March, that the site  
11 injected a significant amount of water into the  
12 drywell of Unit 1.

13 Now, there's no data that we have nor has  
14 TEPCO provided to indicate that that ever happened,  
15 but it's a clear discrepancy in several documents. I  
16 just bring it up as information.

17 We're assuming right now that the drywell  
18 is essentially empty for Unit 1.

19 FEMALE PARTICIPANT: There was a time the  
20 first couple of days that - and it may have been a  
21 translation issue that they were reporting that they  
22 were injecting into the drywell.

23 MALE PARTICIPANT: All right. So, maybe I  
24 guess what I'm suggesting is if anybody has some  
25 information that says it's just other than a

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1 translation, it's your belief that Unit 1's drywell  
2 are partially full, that would be contrary to the  
3 thinking of the team out here.

4 FEMALE PARTICIPANT: Understand.

5 MALE PARTICIPANT: Okay.

6 RANDY CRANE: Hey, Jack, this is Randy at  
7 INPO. Do you know what document - you said an INPO  
8 document and I'm just not familiar with one that said  
9 that.

10 MALE PARTICIPANT: Al Hochevar gave us this  
11 one that says it's limited distribution.. It's a thick  
12 document that's basically all of INPO's running  
13 chronology.

14 RANDY CRANE: Okay. I'll get that. Thank  
15 you.

16 MALE PARTICIPANT: Okay.

17 MIKE SCOTT: What else we got?

18 FEMALE PARTICIPANT: I think for the Site  
19 Team, that that closed out all our items. Let's see  
20 whether or not any members of the consortium have any  
21 additional questions for the Site Team.

22 Let's start wit the naval reactors.

23 GORDON ZITO (phonetic): Yeah, this is  
24 Gordon Zito (phonetic) from naval reactors.

25 Under the item you mentioned questions

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1 from Lieutenant Commander Mercer from the Navy out  
2 there, we will talk to them, line up with them and  
3 maybe get them to turn off the questions going to the  
4 NRC folks in Japan.

5 MALE PARTICIPANT: Yeah, (inaudible) don't  
6 necessarily turn them off. But if you could be a  
7 clearinghouse - because a lot of these questions have  
8 been vague and we talked about - but we certainly  
9 don't -- we're not suggesting - I don't think anybody  
10 here is suggesting that we turn off the questioning  
11 attitude.

12 It's more you're overloading us and we're  
13 trying to meet our mission and we're getting  
14 challenged.

15 MALE PARTICIPANT: Yeah, I think last  
16 evening when I was doing some logistic stuff I talked  
17 with Mercer. And based upon the conversation that we  
18 had, he said he may have some questions in the future  
19 and who would be a good source to send those through.

20 And I said he could send them through the  
21 Japan team thinking that we could control the  
22 information so there would be consistent information  
23 coming out.

24 I don't think I ever expected the barrage  
25 that we got today. So, I think moving forward with

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1 some of the questions we have, it probably would be a  
2 good idea to have those go through headquarters and  
3 you may be a very good point of contact to coordinate  
4 that.

5 MALE PARTICIPANT: Yeah, we tried to take a  
6 low-energy approach to this and answered a three - I  
7 answered a three-question item. And Alan answered a  
8 verbal inquiry, but the three-question item turned  
9 into six more pages of questions. So, it's just kind  
10 of gone, you know, past our ability to efficiently  
11 deal with it.

12 So, I think, you know, I thought the  
13 concept that since you're on the consortium, you could  
14 funnel those kind of questions to the consortium as  
15 appropriate, might be an efficient way to handle this.

16 MALE PARTICIPANT: Okay, Todd. We will  
17 recalibrate with our folks out there.

18 MALE PARTICIPANT: And what you might want  
19 to do if you're willing to do it, is give us an email  
20 for you or someone you designate so that we can then,  
21 you know, when we get -- we're going to get these. We  
22 get them from all sides. We'll just say, please  
23 direct technical questions to so and so at so and so.

24 MALE PARTICIPANT: Yeah, okay. We'll look  
25 at that.

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1 MIKE SCOTT: Okay, appreciate it.

2 MALE PARTICIPANT: Thank you.

3 MALE PARTICIPANT: Yep.

4 MIKE SCOTT: Anything else for us?

5 FEMALE PARTICIPANT: GE, you guys have  
6 anything else for the Site Team?

7 MALE PARTICIPANT: No more questions.  
8 Thank you.

9 FEMALE PARTICIPANT: INPO?

10 MALE PARTICIPANT: Nothing here.

11 FEMALE PARTICIPANT: All right. For the  
12 Site Team, we appreciate your help. If the consortium  
13 will stay on for a second or two so we can check a  
14 couple of follow-up items, we'd appreciate it.

15 MALE PARTICIPANT: Eva -

16 MALE PARTICIPANT: Okay, thank you. Japan  
17 signing off. Have a great day.

18 FEMALE PARTICIPANT: Yes, I heard "Eva."

19 GORDON ZITO: This is Gordon Zito. I was  
20 going to ask just for the Japan team, the dialog or  
21 communication in terms of the hydrogen assumption, the  
22 differences between Japan and th US.

23 How is that dialog going to take place?

24 FEMALE PARTICIPANT: That's a good  
25 question. We'll ask.

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1 GORDON ZITO: Okay.

2 FEMALE PARTICIPANT: Okay, Mike, you had --  
3 I think we had one or two other items. I think we  
4 talked about them briefly.

5 GE, yesterday at close of the 11:00 to  
6 7:00 shift we sent you guys an email with the two  
7 honey-do items. One of them was the one we talked  
8 about that you were commenting to the Site Team that  
9 you guys weren't sure on the usefulness of that  
10 analysis with regards to the pressure.

11 MALE PARTICIPANT: Correct.

12 FEMALE PARTICIPANT: Want to go into a  
13 little more detail for us and we'll put something  
14 together to (inaudible) the Site Team?

15 MALE PARTICIPANT: (b)(4)

16 (b)(4)  
17  
18  
19  
20  
21  
22  
23  
24  
25

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(b)(4)

It's just not a simple calculation and the unknowns relative to the conditions drive such a wide variability in the potential answer.

FEMALE PARTICIPANT: Understand. I like the way you said the unknowns relative to the -

MALE PARTICIPANT: Do we want him to write that down?

FEMALE PARTICIPANT: I think I got it.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: All right, we think we got that. So, we'll write that up and get that to the Site Team as an answer to that question.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: (Inaudible) on that one. How about this, and we talked about it a little bit in the call, this notion about redoing that old hydrogen calculation?

Do you guys still have that on your plate?

MALE PARTICIPANT: Well, I think - or I'm not sure about the discussions that ended up today, but, you know, the big, at least, difference that was talked about last night

(b)(4)

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(b)(4)

MALE PARTICIPANT: Okay, so you're not -  
you don't have a plan to update that calculation.

MALE PARTICIPANT: Not without any other  
inputs on changes to the other assumption.

FEMALE PARTICIPANT: Let me ask a different  
question. The graph that you have, you put into the  
Q385, looks like it reflected (b)(4)

(b)(4)

MALE PARTICIPANT: (b)(4)

(b)(4)

FEMALE PARTICIPANT: Right. So, I was

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1 looking when I say "update," I was wondering what was  
2 your number today or yesterday.

3 MALE PARTICIPANT: It was based on 20 days  
4 into the event.

5 FEMALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: We can look at the plot  
7 to see where we are and -

8 FEMALE PARTICIPANT: Yeah, I mean, we could  
9 do a - we can do a rough guesstimate off of the plot,  
10 but I was wondering if you had something that was a  
11 little more distinct.

12 Because, you know, they're saying (b)(4)

13 (b)(4)

14 (b)(4)

15 I can't remember what it looked like on  
16 the plot. But if you guys have something a little  
17 more definitive, that would be useful.

18 MALE PARTICIPANT: Okay. We can provide  
19 what the estimates would be for today. We can pull  
20 that out of the details.

21 FEMALE PARTICIPANT: Yeah, that would be  
22 the extent really to me of that calc update if you  
23 guys are comfortable with the assumptions in the  
24 original analysis.

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: (Inaudible). I felt  
2 like we had an IOU to the team to give them an updated  
3 calculation.

4 So, what we'll do is tell them that, hey,  
5 we're not going to do that, you know, we think there's  
6 enough information contained in our venting assessment  
7 to answer that question.

8 And so we'll, once again, we'll try and  
9 fulfill the obligation to do that and close it out  
10 with the Site Team.

11 MALE PARTICIPANT: All right.

12 FEMALE PARTICIPANT: Okay. So, those were  
13 the only two we had I think that were the honey-dos  
14 (inaudible) for GE. I don't think we had one for  
15 INPO, did we? And I think we're good to go.

16 MALE PARTICIPANT: Well, we have to talk  
17 about the consolidated document.

18 FEMALE PARTICIPANT: Right. They said they  
19 were going to send us comments. So, if we can have  
20 everyone - if you have comments now, that's fine. But  
21 if you don't, if you can send us comments on the  
22 consolidated in the near term, that would be great.

23 All right. We have 0347. If we can get  
24 them by 0500, that would allow us to get them together  
25 and adequate for turnover to the next shift.

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1 MALE PARTICIPANT: Is that doable guys,  
2 that you send us comments on that consolidated Plan B  
3 document - or Option B document by five o'clock?

4 MALE PARTICIPANT: Yes, this is GEH. We'll  
5 provide comments by five o'clock.

6 RANDY CRANE: And this is Randy at INPO.  
7 I'll provide comments by then.

8 FEMALE PARTICIPANT: And naval, Gordon?

9 GORDON ZITO: We understood that Plan B was  
10 going to be a little bit - going to take a little bit  
11 more time to come, you know, finalize. So, we will -  
12 five o'clock is probably too soon for us. It's  
13 probably a little bit more back burner for us.

14 Maybe five o'clock tomorrow afternoon.

15 FEMALE PARTICIPANT: Okay. So, you'll have  
16 your input ready for the consortium call at 2000? Is  
17 the consortium call at 2000 on - whatever the call is,  
18 the consortium call on the 3:00 to 11:00 shift.

19 Is that correct, Gordon?

20 GORDON ZITO: Yeah, we will - let's see.  
21 It's - there's a call at 1100 eastern time. Let me -  
22 let me task my guys to get - see if we can get our  
23 inputs by 1100 tomorrow.

24 FEMALE PARTICIPANT: Okay.

25 GLEN WATFORD: Eva, this is Glen with GE.

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1 I was just reminded we need another peer check on our  
2 comments and that individual won't be available until  
3 early in the morning. But we will make sure they're  
4 in before the 11 o'clock call.

5 FEMALE PARTICIPANT: Understand. So, we're  
6 going to push all that back then and say - this is  
7 what I'm getting pushed back. Why don't we say if we  
8 can get everything by 1000 so that we can make sure  
9 everything is in and we're all speaking from a common  
10 page at the 1100 call.

11 Would that be better if we moved the time  
12 back to 10:00?

13 RANDY CRANE: Yeah, this is Randy at INPO.  
14 I'd prefer that for the 11 o'clock call. That way  
15 our morning people or people that have submitted it  
16 the first time will get a chance to look at it.

17 FEMALE PARTICIPANT: All right. So, we're  
18 going to go with 1000 hours for feedback on the Option  
19 B doc - consolidated document.

20 MALE PARTICIPANT: Understand, 1000.

21 MALE PARTICIPANT: Yes.

22 FEMALE PARTICIPANT: Excellent. Do you  
23 guys have any other topics, Mike?

24 MIKE SCOTT: This is a memory check here.  
25 I had some old item that talked about a (inaudible)

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1 water inventory document.

2 Is that ringing a bell with anybody?

3 FEMALE PARTICIPANT: Isn't that an offshoot  
4 of that same document with the pressure?

5 MIKE SCOTT: No, it's something different.  
6 It's probably four or five days old.

7 (No response.)

8 MIKE SCOTT: I'm hearing silence, okay.  
9 I'll try and do some research into that one and see  
10 what's going on with that, if anything.

11 FEMALE PARTICIPANT: There was a document,  
12 but I think on one of the calls GE and other groups  
13 gave an estimate of how much water they thought was  
14 coming in. And so, we never put together a document,  
15 document.

16 I think is what happened is they, and I'm  
17 making up a number, it's like half a ton per day or  
18 something they were talking about water putting into  
19 the (inaudible). And that information was forwarded  
20 to the Site Team.

21 I don't think we, you know, put together  
22 an Option B document on that, but I think there's an  
23 email (inaudible) or we told them on the site, told  
24 them on one of the calls.

25 All right. If there is nothing else in

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1 the room -

2 GORDON ZITO: Eva.

3 FEMALE PARTICIPANT: Yes.

4 GORDON ZITO: This is Gordon Zito.

5 FEMALE PARTICIPANT: Hi, Gordon.

6 GORDON ZITO: I've got a question sort of  
7 for the team. And this is with respect to Unit 1.  
8 And this is the 10 to 30 volume percent per day leak  
9 that the Japanese said they may have from Unit 1  
10 containment.

11 If there is that kind of leak rate, do we  
12 see steam coming from the building? Because I, you  
13 know, with the lower -- with the temperature and  
14 pressures of whatever is in the containment, I would  
15 think we would be seeing steam, a lot of it, come from  
16 the building.

17 I haven't seen, you know.

18 FEMALE PARTICIPANT: I haven't seen new  
19 pictures. We have to check with the picture folks.

20 GORDON ZITO: I think that would be very  
21 useful to get a picture, an overhead of the building.  
22 Because I think that would confirm that, you know,  
23 that kind of leak rate.

24 MALE PARTICIPANT: There was a NISA report  
25 that came out that said white steam had been noticed

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1 since March 29th at Unit 1. That was just a onetime  
2 shot. I haven't seen an update from that.

3 GORDON ZITO: Because with all this  
4 uncertainty in terms of, you know, what the parameters  
5 are, the visual evidence to me is much more  
6 confirmatory.

7 MALE PARTICIPANT: Okay, thanks - well,  
8 I've got a general question based on that.  
9 (Inaudible) there might be value in trying to pursue  
10 our thoughts on this 10 to 30 percent leakage item.  
11 The Site Team says, well, have you guys ever looked at  
12 that?

13 Do we want to look at that, or is that  
14 something that's interesting, but not really  
15 fundamental to anything?

16 MALE PARTICIPANT: I think we need to think  
17 about it.

18 MALE PARTICIPANT: Other opinions?

19 MALE PARTICIPANT: Well, I'm not sure what  
20 it's going to impact. We know the pressure is going  
21 down in the drywell.

22 MALE PARTICIPANT: Right.

23 MALE PARTICIPANT: It's nearly half of what  
24 it was around the 29th or - I'm trying to look when it  
25 peaked. Just looking back at some data, it peaked

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1 around the 29th. The report we have at 0100, it was  
2 0.29 megapascals. And as of 2300 on the 2nd Japan  
3 time, it was - one channel was 0.155 megapascals, and  
4 the other was 0.16.

5 MALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: So, it's almost half in  
7 the last four days. Four to five days.

8 MALE PARTICIPANT: Yes. (b)(4)

9 (b)(4)

10  
11  
12  
13  
14  
15  
16  
17  
18 FEMALE PARTICIPANT: (Inaudible).

19 MALE PARTICIPANT: That would - I mean, let

20  
21 me say (b)(4)

22 (b)(4)

23  
24  
25  
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(b)(4)

But I think you need to talk to him and some of the other of the experts that put that assessment together. (b)(4)

(b)(4)

FEMALE PARTICIPANT: Sounds like an item for us to consider and we've got it on the list and we'll discuss how we want to task it.

MALE PARTICIPANT: Yes.

TOM DIVOSA (phonetic): Hello. This is Tom Divosa (phonetic), Naval Reactors. I've got something on this aspect of it.

There were two thoughts on the - is it leakage, or is it steam condensation that's causing the pressure decrease?

If it's leakage, all the discussion I've heard so far applies. If it's steam condensing, then it's a much more significant affect because now you're

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1 de-inerting the atmosphere.

2 MALE PARTICIPANT: They had increased their  
3 injection rate and we saw the pressure coming down  
4 because they were quenching so much, but, I mean,  
5 they're continuing to reduce the flow little bit by  
6 little bit.

7 I'm not sure how that would help that.

8 TOM DIVOSA: Well, this also then relates  
9 to water level in the drywell. We've got a Japan view  
10 that there is no water in the drywell.

11 I think the view on this end was that the  
12 drywell has been filling from all the water that was  
13 added over the 20 days that's expired. And perhaps  
14 there's condensation happening there or increased  
15 losses to ambient.

16 FEMALE PARTICIPANT: Well, I think one good  
17 question, and Ansel (phonetic) had a follow-up on  
18 that, I would, if you guys could, some of you have  
19 been on this since the beginning, and some of us have  
20 been in intermittently, but I do remember at the very  
21 beginning there were some reports that they were  
22 flooding into the drywell.

23 So, we may want to go back and take a look  
24 at our sources for information regarding that  
25 initially.

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1 And I know there was a discussion probably  
2 about two weeks ago about possible level of water in  
3 the drywell as well when we were talking about whether  
4 or not the cores were X vessel.

5 So, it may be a good time to take a  
6 historical look at what we all have as to what the  
7 chronology is of the event to see whether or not we  
8 are talking about drywell water levels.

9 MALE PARTICIPANT: Yeah, we can provide  
10 some input on that. I mean, we do believe based on  
11 how much they've injected, they should be low in the  
12 drywell at this point in time on Unit 1.

13 FEMALE PARTICIPANT: Okay. Alrighty. Any  
14 other topics?

15 MALE PARTICIPANT: Yeah, this is Fred at  
16 INPO. Not a different topic, but to go back to the -  
17 someone asked about water calculations a little bit  
18 earlier in this call.

19 MALE PARTICIPANT: Yeah, water management,  
20 I think.

21 MALE PARTICIPANT: Yeah. So, we saw an  
22 email come through here. And while we were talking, I  
23 tracked it down. Friday evening we got an email that  
24 was relayed from RST 01HOC that was sent at 2319.

25 It forwarded an original message from RST

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1 09HOC that was sent at 2035. And it carried a folder  
2 with it, Calculation of Total Water Injected Into  
3 Fukushima Unit 1.

4 That may answer your questions. I'm not  
5 sure.

6 FEMALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: Okay, thanks.

8 FEMALE PARTICIPANT: We'll look and find  
9 it.

10 MALE PARTICIPANT: And then call back if  
11 you can't find it. It took me a bit, but I got it.

12 FEMALE PARTICIPANT: I understand.

13 MALE PARTICIPANT: I got it.

14 FEMALE PARTICIPANT: We have it. Thank  
15 you.

16 All right. With nothing else of major  
17 action items, is the ten o'clock feedback on the  
18 Option B discussions. And we have actions to get back  
19 with the Site Team and provide them input on the  
20 pressure discussion.

21 And do we have any other actions?

22 MALE PARTICIPANT: Close out the hydrogen.

23 FEMALE PARTICIPANT: Yeah, and we'll close  
24 out the redo of the hydrogen calc, but GE still says  
25 they were going to go in and give us an estimate of

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1 what that should be today.

2 GORDON ZITO: Hey, Eva. This is Gordon  
3 Zito.

4 FEMALE PARTICIPANT: Hi, Gordon.

5 GORDON ZITO: I think with the Site Team in  
6 Japan, I think you need to ask them how do we set up a  
7 dialog between the Japanese and the US experts on the  
8 hydrogen assessment.

9 FEMALE PARTICIPANT: Yeah, yeah,  
10 definitely. I have that as a note. That's - I have  
11 an idea what the answer is, but we'll confirm.

12 GORDON ZITO: Yeah, because I think we need  
13 to get the two sides talking. We've got our  
14 assumptions, they've got theirs. We need to get them  
15 talking.

16 FEMALE PARTICIPANT: Alrighty.

17 GORDON ZITO: Okay.

18 FEMALE PARTICIPANT: Yes, sir.

19 GORDON ZITO: Yes.

20 FEMALE PARTICIPANT: All right. If there's  
21 nothing else, we appreciate your efforts and you guys  
22 have a good morning.

23 GORDON ZITO: Yes, thank you.

24 FEMALE PARTICIPANT: Bye-bye.

25 MALE PARTICIPANT: Thank you.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Hello, hello, hello.

Hm. Hello, hello.

MALE PARTICIPANT: This is the NRC  
Operations (inaudible).

Who's on the line?

MALE PARTICIPANT: Hello, hello, hello.  
Hello, hello.

MALE PARTICIPANT: Who's on the line?

MALE PARTICIPANT: Hello, hello, hello.  
Hello, hello.

(No conversation.)

(Discussion off the record.)

MALE PARTICIPANT: I don't know that  
there's anything you can do for them other than  
(inaudible).

MALE PARTICIPANT: I just want to check and  
see if (inaudible).

MALE PARTICIPANT: Yeah, my understanding  
from - Mike Webber (phonetic) was weighing in on that  
to make (inaudible) here. I don't think (inaudible)  
call everybody in.

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1 But what he mentioned was, first of all,  
2 about the deputies meeting and (inaudible) meeting.  
3 And Mike knows about it. So, he was going to - he was  
4 going to weigh in on the discussion.

5 But for your information, I guess where  
6 that came from was also from the (inaudible) State  
7 Department. And the feeling over there is that -- is  
8 it - well, everybody knows that (b)(5)

9 (b)(5)  
10  
11  
12  
13

14 And so, I think it actually came through  
15 when the chairman - Mike was referring this back to  
16 us. He said it actually came through when the  
17 chairman was over there. That the chairman brought  
18 that back to us as a request to see if we could, you  
19 know, encourage, you know, the RadNet equipment to be  
20 sent over there.

21 So, I was under the impression that it  
22 might be (inaudible) nobody is doing it just to see,  
23 you know, if that's going to move forward again.

24 I think you get much more (inaudible)  
25 turnover other than the fact that they were perhaps

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1 re-looking at that whether or not EPA was going to be  
2 actually supplying the RadNet.

3 The action I can see there is if you have  
4 a contact over at EPA. And I wouldn't say, you know,  
5 tonight. I don't think they're (inaudible) up  
6 tonight, but you might turn it over to day shift to  
7 see if they can detect anything (inaudible).

8 It's going to come up in the deputy's call  
9 tomorrow. So, it might be nice to at least have the  
10 technical folks discussing it a little bit, but that's  
11 the sense.

12 Everybody is - I think the first blush  
13 feedback was, well, hey, other than the DOE  
14 (inaudible) what they have. EPA (inaudible) RadNet.  
15 So, why do that?

16 And so, the issue is really more of a  
17 confidence level, I think, is what they're asking for.

18 MALE PARTICIPANT: (Inaudible).

19 MALE PARTICIPANT: Yeah, I would say just  
20 tie in with them. Just say, hey, are you guys still  
21 thinking about providing this? Because here's the  
22 situation.

23 I don't know that you have too much more  
24 (inaudible). And then the other thing is the  
25 (inaudible).

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1 MALE PARTICIPANT: I talked to Mark and  
2 (inaudible).

3 MALE PARTICIPANT: Yeah, they got it. They  
4 got it. But eventually when they do connect, then you  
5 guys (inaudible).

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: That's what it looks  
8 like right now.

9 MALE PARTICIPANT: Let me (inaudible).

10 MALE PARTICIPANT: If I can think anymore -  
11 if I read anymore of the stuff, I'll let you know.

12 MALE PARTICIPANT: That's what I'm doing.  
13 I'm trying to make my way through (inaudible) I need  
14 to get people working on right now.

15 MALE PARTICIPANT: Okay, okay. I think  
16 we're on board with the same thing. Thank you.

17 MALE PARTICIPANT: On this list, Number 3,  
18 which is the second one on the first page (inaudible).  
19 Scott's (inaudible), right?

20 MALE PARTICIPANT: Yeah, do you want to get  
21 him back in?

22 MALE PARTICIPANT: Yeah, I was going to ask  
23 him - I meant to ask him about this one because I have  
24 no idea what this is. DOT is involved, but -

25 (Off the record.)

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1 (No conversation.)

2 MALE PARTICIPANT: On the Japanese  
3 (inaudible) action items list, (inaudible)  
4 recommendations for (inaudible) water in basements of  
5 Units 1, 2 and 3 (inaudible) Tracker 3235.

6 Is that ours?

7 FEMALE PARTICIPANT: 3235 is (inaudible).

8 MALE PARTICIPANT: Huh?

9 FEMALE PARTICIPANT: It's not one that's  
10 open.

11 MALE PARTICIPANT: Yeah, I mean, because it  
12 looks - the lead, it says coordinating agencies DOE  
13 and DoD. I'm trying to figure out whose (inaudible)  
14 tracker this is.

15 FEMALE PARTICIPANT: It's not coming up in  
16 the search. (Inaudible) see if I can find it.

17 MALE PARTICIPANT: Okay.

18 FEMALE PARTICIPANT: 3235, right?

19 MALE PARTICIPANT: Yeah.

20 FEMALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: There's an action here.  
22 This is (inaudible) the request from the Japanese.  
23 And one of the items is conduct simulation by the  
24 radiation diffusion model. Compare it to the 3-D  
25 simulation by the Japanese (inaudible). Coordinating

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1 agency deal with NRC (inaudible).

2 Then it says it's still open, (inaudible)  
3 been shared, clarification needed between (inaudible)  
4 contact DOE (inaudible) to discuss technical  
5 preparation.

6 Do you know anything about -

7 MALE PARTICIPANT: Just what the guys have  
8 told me (inaudible) that we think it's similar to  
9 (inaudible).

10 MALE PARTICIPANT: Okay. I'm just trying  
11 to understand what -

12 MALE PARTICIPANT: Yeah.

13 MALE PARTICIPANT: We understand what our  
14 responsibility, our task is and what we owe, because  
15 that's really what I'm - when I get on the phone with  
16 you tonight, my question is, okay, who got the action  
17 and do you know what you have to do, okay. And I  
18 can't figure that out.

19 MALE PARTICIPANT: I don't have a clear  
20 picture (inaudible) because my understanding is  
21 apparently DOE and (inaudible) I can qualify that and  
22 see if I get a clear picture (inaudible) very clear.

23 MALE PARTICIPANT: I was listening in and  
24 it sounds like maybe the action that we want to ask  
25 for on the phone would be to ask DOE to get better

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1 clarity on this request, what we're trying to get out  
2 of it and whether it's needed or not.

3 Because I think those two questions are  
4 both - they've had some of the (inaudible)  
5 information, the data. They've (inaudible) data and  
6 they've compared it and they deem it significant.

7 MALE PARTICIPANT: They think (inaudible).

8 MALE PARTICIPANT: Yeah. So, I think the  
9 task should go to DOE to say, do we really need this  
10 and when do we need it by?

11 MALE PARTICIPANT: Which is how it seems to  
12 be applied here. They're going to have more  
13 discussions Monday to get some clarification.

14 MALE PARTICIPANT: Okay.

15 MALE PARTICIPANT: Do you want me to follow  
16 up (inaudible) clear picture?

17 MALE PARTICIPANT: Don't spend a lot of  
18 time on it. But if somebody know what's going on,  
19 (inaudible).

20 MALE PARTICIPANT: Okay. (Inaudible).

21 MALE PARTICIPANT: Oh, really?

22 MALE PARTICIPANT: (Inaudible).

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: But, yeah, they do have  
25 an action (inaudible) somebody tomorrow to try to

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1 terse that out (inaudible).

2 MALE PARTICIPANT: Okay, good.

3 MALE PARTICIPANT: Do you have any others?

4 MALE PARTICIPANT: No, there was only one,  
5 thanks.

6 MALE PARTICIPANT: (Inaudible).

7 MALE PARTICIPANT: But we don't know about  
8 that (inaudible) tracker 32 -

9 FEMALE PARTICIPANT: Yeah, I saw it here  
10 and it looks like that is ours. It was a tracker for  
11 the (inaudible).

12 Description is an ambassador (inaudible)  
13 any information regarding the plan for removal of  
14 water from the basement in Units 1, 2 and 3. Please  
15 send off recommendations for this situation  
16 (inaudible) to determine how they will get (inaudible)  
17 the ambassador.

18 MALE PARTICIPANT: When I look at this, it  
19 says the current status and expected timing. And it  
20 says DOE NE is developing contaminated water  
21 management proposals for consideration.

22 I'm not aware of - we're not doing  
23 anything, are we?

24 MALE PARTICIPANT: I don't know that we  
25 are. I don't think so.

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1 MALE PARTICIPANT: So, the question would  
2 be is why is it on our tracking system as though we  
3 have an action?

4 FEMALE PARTICIPANT: Well, the (inaudible)  
5 tracking system is closed.

6 MALE PARTICIPANT: Closed?

7 FEMALE PARTICIPANT: Uh-huh.

8 MALE PARTICIPANT: Okay.

9 FEMALE PARTICIPANT: And it's not really -  
10 it looks like -

11 MALE PARTICIPANT: I mean, you can't get  
12 this when you look at this table though, okay, because  
13 it says the status is open. And it says, you know,  
14 develop recommendations (inaudible) tracker.

15 So, it sounds like it's our action.

16 FEMALE PARTICIPANT: Right.

17 MALE PARTICIPANT: Somehow we've got to get  
18 this to -

19 FEMALE PARTICIPANT: (Inaudible) revised.  
20 If Mike says (inaudible) we provided our input  
21 (inaudible).

22 MALE PARTICIPANT: I don't know. You said  
23 that the Liaison Team had the --

24 FEMALE PARTICIPANT: Liaison Team got the  
25 action. They got some input from Reactor Safety Team.

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1 And it was closed out as of 3/29.

2 And it says, RST provided on this that  
3 potential items be added (inaudible) Japanese  
4 government action item (inaudible) request for  
5 consideration by the industry consortium.

6 That was the response (inaudible).

7 MALE PARTICIPANT: We've got to get  
8 (inaudible).

9 FEMALE PARTICIPANT: RST provided a list of  
10 potential items to be added to the Japanese government  
11 action items and material request for consideration by  
12 the industry consortium.

13 MALE PARTICIPANT: So, basically it refers  
14 that one to here and we're saying, yeah, I think it's  
15 a good idea, provide some temporary holding tanks, and  
16 that was it.

17 FEMALE PARTICIPANT: And then they sent an  
18 email to Mark Shaffer (phonetic) that says, Mark, in  
19 response to your inquiry, Bob just reported back from  
20 the RST (inaudible) water into available (inaudible)  
21 and other tanks onsite. Additionally (inaudible) to  
22 provide bladders and other additional temporary  
23 storage (inaudible) considered temporary rad waste  
24 (inaudible) temporary holding tanks and tanker trucks.

25 DOE is also investigating whether there is a

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1 technology (inaudible).

2 MALE PARTICIPANT: Yeah, I got that part.

3 MALE PARTICIPANT: Yeah, you know, didn't  
4 they contact Shaw Engineering (phonetic) to work on a  
5 decontamination skid or something.

6 MALE PARTICIPANT: Doesn't say anything  
7 about that. And if they did, I mean, (inaudible)  
8 Number 23 says, investigate whether there is  
9 technology that would absorb contaminated materials  
10 from water.

11 And it says DOE, DOE NE, Secretary Chu  
12 reportedly told the Japanese.

13 MALE PARTICIPANT: Yes.

14 MALE PARTICIPANT: Toshiba Team, what is  
15 the Toshiba Team? I keep seeing that.

16 MALE PARTICIPANT: I think it's probably -

17 MALE PARTICIPANT: GE?

18 MALE PARTICIPANT: Well -

19 MALE PARTICIPANT: (Inaudible) the Toshiba  
20 team has developed draft plans for water treatment  
21 (inaudible) and minimization of solid waste  
22 (inaudible).

23 So, I mean, yeah, I have no idea who the  
24 Toshiba team is.

25 MALE PARTICIPANT: They probably sent

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1 engineers from Toshiba. I mean, Toshiba was one of  
2 the (inaudible) not really. They were one of the -

3 MALE PARTICIPANT: No, I mean, they're not  
4 part of the consortium. So, (inaudible) get involved  
5 in this.

6 MALE PARTICIPANT: I don't know. Let me  
7 ask -

8 MALE PARTICIPANT: Because there was some  
9 work - Shaw Engineering was contacted to do - and  
10 that's not from this call. It was just from my memory  
11 from a while back. They were going to do some - I  
12 thought they were (inaudible), but that's not the same  
13 as (inaudible) on top of the water and it sucks up the  
14 contamination.

15 MALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: Seems like magic to me.  
17 I don't know.

18 (No conversation.)

19 MALE PARTICIPANT: (Inaudible)?

20 FEMALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: (Inaudible).

22 FEMALE PARTICIPANT: (Inaudible).

23 MALE PARTICIPANT: (Inaudible).

24 (No conversation.)

25 FEMALE PARTICIPANT: (Inaudible).

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1 MALE PARTICIPANT: I talked to them about  
2 that - first of all, here's a picture of current  
3 dewatering scheme. But as far as Shaw, what Shaw is  
4 doing, they're doing some debris work. They don't  
5 have (inaudible) debris removal, but not for, you  
6 know, like filtering skids to filter (inaudible).

7 Theoretically, the ones that Shaw gets  
8 because we can't put in th skids unless we get some of  
9 the big stuff removed, this is what Shaw is working  
10 on. So, that's as much as I know about it.

11 Oh, and PNNL was also tasked and I don't  
12 think they're on the consortium either. I guess it's  
13 through DoD or something.

14 MALE PARTICIPANT: PNNL is (Inaudible).

15 MALE PARTICIPANT: To look at  
16 decontamination, long-term decontamination  
17 possibilities, technologies. Technologies not  
18 (inaudible) the skid, but -

19 MALE PARTICIPANT: But they were asked by  
20 who?

21 MALE PARTICIPANT: I don't know. Japanese  
22 government maybe perhaps. I'm not sure. We can bring  
23 that up on the call and say, do we have all that, you  
24 know, all the decontamination efforts captured here,  
25 or are there other ones that are going on?

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1 MALE PARTICIPANT: But that's part of the  
2 problem. I mean, the Japanese government is out  
3 contacting -

4 MALE PARTICIPANT: I know.

5 MALE PARTICIPANT: You know, or TEPCO is  
6 out contacting US firms and we have no idea what's  
7 going on (inaudible).

8 MALE PARTICIPANT: The Navy was  
9 (inaudible). Somebody mentioned it out there, but  
10 they didn't put it in here (inaudible)  
11 decontamination.

12 MALE PARTICIPANT: (Inaudible).

13 MALE PARTICIPANT: So, this is not being  
14 coordinated through the RST.

15 MALE PARTICIPANT: (Inaudible).

16 MALE PARTICIPANT: Yeah, it looks like.  
17 So, I don't know why we have it -

18 MALE PARTICIPANT: Well, they're national  
19 labs. I mean, they work for the labs, the Interior.  
20 They work for the DOE.

21 MALE PARTICIPANT: Right.

22 (No conversation.)

23 MALE PARTICIPANT: So, we closed that.  
24 That's why -

25 MALE PARTICIPANT: Okay.

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1 (No conversation.)

2 MALE PARTICIPANT: I don't know if PNNL  
3 (inaudible) I don't know that we -

4 MALE PARTICIPANT: DOE's lab (inaudible).

5 MALE PARTICIPANT: But I'm just wondering  
6 how much further we want to take this, you know,  
7 whether there's the technology that will absorb  
8 contaminated materials (inaudible) PNNL would be  
9 working with them. I'm not sure how much -

10 MALE PARTICIPANT: DOE is working  
11 (inaudible). (b)(5)

12 MALE PARTICIPANT: Yeah, right. I agree.  
13 That's got to be (inaudible).

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1  
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3  
4 (CONFERENCE CALL INITIATED)

5 TELEPHONE RECORDING: There are currently  
6 20 participants in your conference. The following  
7 people are in the conference.

8 MALE PARTICIPANT: (Inaudible)  
9 headquarters, operations office.

10 LINDA HOWELL: Linda Howell, Region 4.

11 PAUL MICHALAK: Paul Michalak, FSME EO.

12 MALE PARTICIPANT: Mike (inaudible),  
13 Commissioner (inaudible) office.

14 PAT CASTLEMAN: Pat Castleman, Commissioner  
15 Svinicki's office.

16 MALE PARTICIPANT: Brian (inaudible).

17 MARVIN SYKES: Marvin Sykes, Region II duty  
18 officer.

19 RAY POWELL: Ray Powell, Region I.

20 BARRY CAMPER (phonetic): Barry Camper,  
21 SSME.

22 MIKE SNODDERLY: Mike Snodderly,  
23 Commissioner Apostolakis' office.

24 ANNETTE VIETTI-COOK: Annette Vietti-Cook,  
25 Office of the Secretary.

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1 MALE PARTICIPANT: (Inaudible), chairman's  
2 office.

3 KEN HART: Ken Hart, SECY.

4 SCOTT MOORE: Scott Moore, FSME.

5 MICHAEL MARSHALL: Michael Marshall,  
6 Chairman Jaczko's office.

7 MALE PARTICIPANT: (Inaudible) office.

8 HIRONORI PETERSON: Hironori Peterson,  
9 Regional III duty officer.

10 SCOTT MOORE: Scott Moore, (inaudible).

11 TELEPHONE RECORDING: The roster playback  
12 is complete.

13

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1  
2  
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4  
5 (CONFERENCE CALL INITIATED)

6 MALE PARTICIPANT: This is the Executive  
7 Team room. Are there others on the line, please?

8 MALE PARTICIPANT: This is (inaudible). I  
9 don't think my colleagues (inaudible).

10 MALE PARTICIPANT: All right. I believe  
11 we'll ask the Headquarters Operations officer to do a  
12 roster playback if they would regarding members that  
13 are on the call for this (inaudible).

14 TELEPHONE RECORDING: There are currently  
15 22 participants in your conference. The following  
16 people are in the conference.

17 MALE PARTICIPANT: Howie (inaudible),  
18 Headquarters Operations Officer.

19 LINDA HOWELL: Linda Howell, Region IV.

20 PAUL MICHALAK: Paul Michalak, FSME EO.

21 MALE PARTICIPANT: Mike (inaudible),  
22 Commissioner (inaudible) office.

23 PAT CASTLEMAN: Pat Castleman, Commissioner  
24 Svinicki's office.

25 BRIAN HARRIS: Brian Harris, OGC.

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1 MARVIN SYKES: Marvin Sykes, Region II duty  
2 officer.

3 RAY POWELL: Ray Powell, Region I.

4 BARRY CAMPER (phonetic): Barry Camper,  
5 SSME.

6 MIKE SNODDERLY: Mike Snodderly,  
7 Commissioner Apostolakis' office.

8 ANNETTE VIETTI-COOK: Annette Vietti-Cook,  
9 Office of the Secretary.

10 MALE PARTICIPANT: (Inaudible), Chairman's  
11 Office.

12 KEN HART: Ken Hart, SECY.

13 SCOTT MOORE: Scott Moore, FSME.

14 MICHAEL MARSHALL: Michael Marshall,  
15 Chairman Jaczko's office.

16 MALE PARTICIPANT: (Inaudible) EDO's  
17 office.

18 HIRONORI PETERSON: Hironori Peterson,  
19 Region III duty officer.

20 MALE PARTICIPANT: (Inaudible).

21 FEMALE PARTICIPANT: (Inaudible).

22 TELEPHONE RECORDING: The roster playback  
23 is complete.

24 ♀ FEMALE PARTICIPANT: Okay, good morning,  
25 everyone. This is (inaudible). I'm the ET director

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1 today.

2 First off, basically no changes in plant  
3 status in the past 24 hours. We're going to run  
4 through the various priorities for the teams and any  
5 changes that we can (inaudible) from their activities.

6 Reactor Safety Team, they continue to work  
7 the spent fuel pool assessment paper. That will be  
8 further discussed on Monday.

9 FEMALE PARTICIPANT: This is Site Team.

10 FEMALE PARTICIPANT: Correct. Also, a  
11 supplemental paper on benzine. They're working a  
12 supplemental paper on benzine, and that was provided  
13 to the Site Team in the past 24 hours for them to  
14 discuss with the Japanese.

15 Also looking at questions from the Site  
16 Team for other configurations to feed and bleed, and  
17 that's how they process now for the (inaudible) team.

18 Let's see. With regard to the  
19 (inaudible), you may have heard this on the news.  
20 Japanese authorities are now encouraging evacuation  
21 between 20 to 30 kilometers. Basically, this used to  
22 be voluntary. They're now encouraging it.

23 From what we can see, this is not related  
24 to any change in plant conditions, but with more in  
25 logistics and getting (inaudible) people who are 20 to

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1 30 kilometers (inaudible).

2 Another item, the discussion was to  
3 (inaudible) deployment of EPA RadNet monitors in Japan  
4 to help provide confidence and safety within the  
5 country for the US citizens, military and their  
6 dependents. This item will be discussed at the  
7 principals meeting on April - on Monday, the 4th.

8 Also, you've probably heard on the  
9 previous calls about the ambassador's interest in  
10 assuring that we had information to provide for US  
11 citizens coming back into the areas beyond the 50-mile  
12 EPZ.

13 (b)(5)  
14  
15  
16  
17

18 TELEPHONE RECORDING: (Inaudible) updated.

19 FEMALE PARTICIPANT: And then moving on to  
20 the Liaison Team, basically they're still facilitating  
21 a consortium meeting for eight o'clock in the evening.

22 That's (inaudible) on where we are right  
23 now. (Inaudible) quiet weekend just continuing to  
24 work all the different activities coming into the  
25 center.

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1 Any questions?

2 PAT CASTLEMAN: Michelle, this is Pat  
3 Castleman. (b)(5)

4 (b)(5)  
5  
6  
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9  
10  
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12  
13

14 So, there's no additional runs being made  
15 by (inaudible).

16 PAT CASTLEMAN: Okay. Do we know if the  
17 sense down on the NFC is that the information that we  
18 have is sufficient to support a recommendation for  
19 people to return?

20 FEMALE PARTICIPANT: That, we do not have  
21 yet. We're making sure that we have the right - this  
22 is Cindy (inaudible) with (inaudible). That we have  
23 the correct information and up-to-date source term  
24 information that if it would come up this week, that  
25 we would have verification of that data to support

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1 that.

2 But the discussion of reentry is likely to  
3 come up on Monday's call with the interagency. So,  
4 that will be one point of discussion that we'll look  
5 at.

6 PAT CASTLEMAN: Okay, thank you.

7 FEMALE PARTICIPANT: Any other questions?

8 MALE PARTICIPANT: Michelle, this is Mike  
9 (inaudible). Good morning.

10 FEMALE PARTICIPANT: Good morning.

11 MALE PARTICIPANT: I've got a question for  
12 you based on what we heard yesterday. And I don't  
13 know if you were on the bridge yesterday. You may  
14 have it in your turnover notes, that the TEPCO folks  
15 were not going to do a flood-up of the containments.

16 They were going to essentially maintain in  
17 terms of the reactor, a feed-and-bleed-type process, a  
18 status quo-type approach until April 9th.

19 Do you know what's behind that date, why  
20 April 9th was provided? Is there something else tied  
21 to that?

22 MALE PARTICIPANT: You know, Mike, this is  
23 Brian (inaudible), Reactor Safety Team. Michelle was  
24 on the call yesterday and I was here in (inaudible)  
25 center.

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1 As far as we can tell, April 9th is - they  
2 need more time to figure out how to get nitrogen in  
3 for inerting.

4 I think you heard a number yesterday that  
5 it - maybe you didn't hear it on this call, where they  
6 think they want to tie in the nitrogen system that  
7 they brought in. It's 27 R. So, they just can't get  
8 there. They're looking for alternate aspects to put  
9 nitrogen in.

10 So, that's why I think they've just  
11 delayed and said it's going to take another week or  
12 so.

13 We also think that they have been not  
14 quick to vent that containment in light of our RST  
15 recommendations. However, as you've seen here in the  
16 last couple days, it's down to now eight PSIG. It was  
17 nine yesterday. It was 20 a couple days ago.

18 So, it may be self-venting by itself now.  
19 We're not sure of that. So, that may be relieving  
20 some of that issue.

21 However, as we talked yesterday, you know,  
22 two reasons to vent. One for the integrity of that  
23 containment, but, two, just to help manage the oxygen  
24 and hydrogen concentrations. Because even so at this  
25 pressure, you can have a mix in there that can cause a

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1 deflagration. So, you know, we're still recommending  
2 that.

3 The paper Michelle mentioned was the  
4 Japanese are continuing with the feed and bleed.  
5 We're actually giving them some advice on, okay, if  
6 you want to continue with that, we'll try to give you  
7 some other ideas on that, but we're still maintaining  
8 that you should try to flood up and vent on Unit 1.

9 One other thing I'll mention on that is GE  
10 and us talked yesterday and some of these ideas that  
11 go ahead and put in your normal feedwater flow going  
12 in, try to inject nitrogen that way and just so it  
13 comes out as solution and into the free space there.

14 So, we're trying to come up with some  
15 novel ideas for them.

16 MALE PARTICIPANT: Okay, thank you. That's  
17 very helpful. I did catch that 27 R per hour. I  
18 wasn't sure if there was something else tied to that  
19 decision point or date that would affect the decision.

20 So, thank you. That was very thorough.

21 I don't have any other questions right  
22 now. Thanks.

23 FEMALE PARTICIPANT: Any other questions?

24 MALE PARTICIPANT: This is Bill  
25 (inaudible). Has there been any updates on the

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1 discharge to sea?

2 FEMALE PARTICIPANT: No, not yet, but we  
3 had a call overnight with the NRC Japan team and we  
4 asked them to look into what (inaudible) they can get  
5 from Japanese on that.

6 MALE PARTICIPANT: And this is Brian  
7 (inaudible). I guess several discharge to the sea,  
8 you know, several of those trenches are - you may be  
9 following the news this morning that says a concrete  
10 truck was backed up to the crack in one of the  
11 buildings there and tried to fill it with concrete and  
12 it washed away.

13 So, that's being carried on the news. You  
14 see this morning they're trying to come up with a  
15 sawdust and other fix.

16 So, other than that we have - the Site  
17 Team did not engage with the Japanese last night and  
18 we're just guessing that on the news.

19 FEMALE PARTICIPANT: Okay. Any other  
20 questions?

21 MALE PARTICIPANT: Just a comment. You  
22 probably saw on the news where they found the two  
23 bodies in the turbine building.

24 FEMALE PARTICIPANT: Yes, we did see that  
25 and we did get -

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1 MALE PARTICIPANT: All right.

2 FEMALE PARTICIPANT: -- all the facts  
3 (inaudible) on that, yes. They were - these were two  
4 individuals who apparently were killed from the  
5 tsunami. In fact, they had been missing since March  
6 11th.

7 Any other comments, questions?

8 (No response.)

9 FEMALE PARTICIPANT: With regard to this  
10 call, I guess during the week this call is normally at  
11 10:00 a.m. So, I'm going to - we'll have it at 10:00  
12 a.m. tomorrow, but it's going to be 8:30 a.m.  
13 (inaudible).

14 Does that sound good?

15 PAT CASTLEMAN: Yes, that sounds good. I  
16 have a question. One more question, Michelle.

17 FEMALE PARTICIPANT: Sure.

18 PAT CASTLEMAN: This is Pat Castleman.

19 Did we get any other feedback from the  
20 Friday principals meeting?

21 FEMALE PARTICIPANT: No, other than the  
22 information that was provided with regard to the dose  
23 (inaudible) and the additional runs, that appears to  
24 have come out of the principals meeting.

25 But other than that, like we've asked the

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1 question, you know, is there anything out of the  
2 principals meeting that we need to be prepared for the  
3 Executives meeting on Monday? And we haven't gotten  
4 an answer to that yet.

5 PAT CASTLEMAN: Okay, thank you.

6 FEMALE PARTICIPANT: Yes, all right. Well,  
7 thank you. Everybody have a good day.

8 MALE PARTICIPANT: Thank you.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Mike, are you up on the bridge?

MALE PARTICIPANT: I'm on the bridge.

MALE PARTICIPANT: Hello, Michael.

MALE PARTICIPANT: Hi, is that Marti?

MALE PARTICIPANT: Yes, sir.

MALE PARTICIPANT: Hey, welcome back. You got your Florida shirt on?

MALE PARTICIPANT: Yeah.

MALE PARTICIPANT: Awesome.

MALE PARTICIPANT: Actually, I got two sweaters on because I'm trying to adjust to being cold again.

(Laughter.)

MALE PARTICIPANT: That's great. I'm just calling in for the chairman's call. I thought it would help me keep in the loop.

MALE PARTICIPANT: Yeah, and I just figured I'd catch the turnover since I was coming in to catch up on emails for the last couple days.

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1 MALE PARTICIPANT: Yeah, you getting ready  
2 for Wednesday's hearing?

3 MALE PARTICIPANT: No.

4 (Laughter.)

5 MALE PARTICIPANT: You know, as ready as I  
6 got is I got onto the - on the internet to see who's  
7 on that subcommittee. And I saw, remember this is a  
8 recorded line, Ed (inaudible)'s name. And I got  
9 depressed and decided I was going to sign off.

10 (Laughter.)

11 MALE PARTICIPANT: Oh, well.

12 MALE PARTICIPANT: So, Wednesday is not  
13 going to be a fun day.

14 MALE PARTICIPANT: Well, you heard the  
15 Committee staff wanted to have Don Cool (phonetic)  
16 there with you?

17 MALE PARTICIPANT: Yes, I saw that email.

18 MALE PARTICIPANT: Yeah, that was good.

19 MALE PARTICIPANT: Yeah.

20 MALE PARTICIPANT: So, are you all up to  
21 speed on what's going on in Japan?

22 MALE PARTICIPANT: I caught the turnover.  
23 So, I'm starting to catch up again.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: And I've been reading

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1 the emails as I've gone along over the last three  
2 days.

3 MALE PARTICIPANT: Uh-huh.

4 MALE PARTICIPANT: I'm a little confused  
5 about what meeting is coming up tomorrow. Is there an  
6 eight o'clock meeting tomorrow that the Chairman is  
7 going to participate in, or is that you and Josh?

8 MALE PARTICIPANT: It's not at eight  
9 o'clock. I think it's at 1:30 and it's a Deputy's  
10 Committee Meeting tomorrow afternoon.

11 MALE PARTICIPANT: Mike, this is Brian.  
12 That's the Deputy department heads?

13 MALE PARTICIPANT: Yes, deputy secretaries.

14 MALE PARTICIPANT: Okay. When is the  
15 Principals then? Is that actually the secretary?

16 MALE PARTICIPANT: It's supposed to be.

17 MALE PARTICIPANT: Okay.

18 MALE PARTICIPANT: But they don't always -  
19 you know how it is if they're in country, if they're  
20 traveling.

21 MALE PARTICIPANT: Right.

22 MALE PARTICIPANT: So, and when we talk to  
23 the Chairman, I mean, he may have additional insights  
24 when he's briefed on this call, but he basically said  
25 he felt that the actions that we were taking were

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1 fully consistent with the results of the principals  
2 meeting.

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So, hopefully you guys got that in  
turnover.

MALE PARTICIPANT: Yeah, that's in the  
turnover stuff.

MALE PARTICIPANT: Yeah, good.

MALE PARTICIPANT: Mike, is that four  
becquerel per centimeters squared at a US port?

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: Yes. Yeah, we had - the

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(b)(5)

MALE PARTICIPANT: Yes.

MALE PARTICIPANT: But I think they were trying to strike a balance and didn't want to get carried away.

MALE PARTICIPANT: Yeah, yeah. Do we know what's being detected at the airports today?

MALE PARTICIPANT: They are able to detect at that level. I think as of the time they had the Principals meeting, and this is in some of the background information for that meeting, but I think they only had four hits above for becquerels per centimeters squared.

MALE PARTICIPANT: Okay.

MALE PARTICIPANT: They had something like 4,000 above the 0.4 level.

MALE PARTICIPANT: Yeah.

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1 MALE PARTICIPANT: And it was a variety of  
2 cargo shipments. There were some packages that came  
3 in from Canada, I think. And then there, you know,  
4 this isn't on transported goods, but they're finding  
5 on the air intakes on some of the transoceanic  
6 flights, they're elevated on the filters from the  
7 planes. But that's to be expected.

8 MALE PARTICIPANT: Did anybody run  
9 calculations like we did when we were thinking about  
10 the clearance rulemaking to see what four becquerels  
11 per centimeters squared actually turned out to in  
12 terms of a projected dose?

13 MALE PARTICIPANT: Yeah, I think that PMT  
14 (phonetic) ran some calculations. And you're talking  
15 about low doses. It's going to vary from nuclide to  
16 nuclide, of course, but it's not a substantial dose.

17 MALE PARTICIPANT: Hey, Mike?

18 MALE PARTICIPANT: Yes.

19 MALE PARTICIPANT: The Chairman's not  
20 answering any of his phone numbers.

21 MALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: So, I don't know whether  
23 you want to stay on or what, because I'm not really  
24 sure. I mean, we're just, you know, we tried to call  
25 him and there's no answer.

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1 MALE PARTICIPANT: Yeah, well, he may call  
2 back.

3 MALE PARTICIPANT: Yeah.

4 MALE PARTICIPANT: When I spoke to him last  
5 night, he was planning on calling because I think this  
6 is his last call he's going to have for a little bit.

7 MALE PARTICIPANT: If he's leaving tonight,  
8 yeah.

9 MALE PARTICIPANT: Yeah.

10 MALE PARTICIPANT: Of course the question  
11 is, what time is his plane leaving?

12 MALE PARTICIPANT: I would imagine it's  
13 like five or six o'clock.

14 MALE PARTICIPANT: Well, he's probably on  
15 his way to the airport now.

16 MALE PARTICIPANT: Yeah, I would expect  
17 he'd call in on his BlackBerry.

18 MALE PARTICIPANT: He's probably at the  
19 airport.

20 MALE PARTICIPANT: He should be at the  
21 airport.

22 MALE PARTICIPANT: (Inaudible) check-in  
23 requirements.

24 MALE PARTICIPANT: Oh, yeah, because you  
25 got to be two hours (inaudible).

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1 MALE PARTICIPANT: Yeah.

2 MALE PARTICIPANT: Well (inaudible) phone  
3 call here.

4 MALE PARTICIPANT: He's got to be at the  
5 airport at this point.

6 MALE PARTICIPANT: Yeah.

7 (Discussion off the record.)

8 MALE PARTICIPANT: Is he coming up?

9 MALE PARTICIPANT: No, no, he's still - we  
10 were just checking his - his flight leaves at 5:11.

11 MALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: So, he's, you know,  
13 which means they'll probably put him on the plane -  
14 they start boarding probably about 4:30 or so, I would  
15 think.

16 MALE PARTICIPANT: Uh-huh.

17 MALE PARTICIPANT: So, he's got to be at  
18 the airport going through screening or something.

19 MALE PARTICIPANT: Yeah, but give it a  
20 moment.

21 MALE PARTICIPANT: Yeah.

22 MALE PARTICIPANT: He is the Chairman,  
23 after all.

24 MALE PARTICIPANT: (Inaudible) give him 20  
25 minutes, right?

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1 MALE PARTICIPANT: Yeah, I don't know how  
2 those rules apply to the Chairman.

3 Marti, for your benefit, I had a good,  
4 long conversation with Elmo on Friday late afternoon.

5 And I had a long conversation with Chuck who called  
6 me at home late Friday night.

7 And those two calls were very helpful for  
8 me because I realized that I didn't have the context  
9 that they had over there in Japan. So, I think you  
10 were getting some of that during your nightshift.

11 MALE PARTICIPANT: Yeah, yeah, we talked  
12 frequently.

13 MALE PARTICIPANT: But, you know, I had no  
14 clue. And it came to a head on Friday, because we  
15 actually turned off some things that they were trying  
16 to turn on over there in Japan.

17 So, I think that was very beneficial. So,  
18 I know Cindy talked to Eric. Hopefully, Cindy  
19 transferred that to Michelle, who has now transferred  
20 that to Brian in turnover.

21 But one of the biggest take-aways for me  
22 is, you know, we continue to think about this  
23 primarily from a technical perspective. And we're  
24 looking at technical solutions, which of course is  
25 appropriate. (b)(5)

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1 (b)(5)

2 (b)(5)

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: So, I know Brian will be  
9 sensitive to that.

10 MALE PARTICIPANT: Sure. When you say

11 (b)(5) in what respect though?

12 MALE PARTICIPANT: (b)(5)

13 (b)(5)

17 And that came through, we worked it  
18 through the PMT. (b)(5)

19 (b)(5)

21 When you match that up with what the Japanese are  
22 using, we have ample in-country monitoring. So, we  
23 don't need it. So, we turned it off.

24 Well, when I spoke to Chuck, (b)(5)

25 (b)(5)

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1 (b)(5)  
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6 MALE PARTICIPANT: Okay, I gotcha.

7 MALE PARTICIPANT: So, we tried to turn  
8 that back on. I don't know whether we've gotten  
9 confirmation from EPA that they're pursuing that, but  
10 as of last night they were taking it up their  
11 management chain to see what they could do.

12 So, that's a simple example how we can get  
13 so focused on the technical merits that we don't  
14 really look at it from the total perspective.

15 And I think we were going through some of  
16 that with the RST analyses. I don't know if they  
17 continued to progress on the feed and bleed analysis.

18 Is that something that's still working on  
19 your watch, Brian?

20 MALE PARTICIPANT: Yeah, I think - let me  
21 see what - it's got a quick turnover. I've got to  
22 find it here.

23 MALE PARTICIPANT: That was one of the  
24 questions that came back from Chuck and Elmo. And,  
25 you know, they've talked about putting together this

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1 week this global assessment. I don't know whether  
2 they've discussed that with you.

3 MALE PARTICIPANT: No, not yet.

4 CHRIS MILLER (phonetic): Mike, I've got -  
5 Chris Miller (phonetic) here. I've got a little bit  
6 on that and they are still working on the questions.  
7 I guess they're being referred to as the Elmo  
8 questions.

9 MALE PARTICIPANT: Right, right.

10 CHRIS MILLER: But they are working on  
11 that, the feed and bleed assessment. And then, you  
12 know, how we're going to change our recommendations as  
13 part of that global strategy.

14 MALE PARTICIPANT: Yeah. And I think what  
15 they're trying to do early this week is to put  
16 together all the different assessments that we've  
17 already prepared or are preparing, and integrate those  
18 assessments and their conclusions so that they can  
19 present the results at a very high level.

20 They wanted to write that document, vet it  
21 back with our teams there in the operations center.  
22 Then, you know, prepare a high-level briefing  
23 including perhaps a broader variety. I'm thinking  
24 like our congressional briefers and you and me, Marti,  
25 and other folks there at NRC.

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1 And then when ready, they want to roll  
2 that out to the ambassador and to other high levels of  
3 both the Japanese government and the US government.

4 And they think that that's going to be a  
5 critical analysis that may support long-term planning  
6 for how to get back to a more stable, more normal  
7 operating environment.

8 MALE PARTICIPANT: Okay, here's the - Mike,  
9 here's the thing about the RadNet monitors.  
10 Apparently, that's going to be discussed at the  
11 principals meeting on April 4th.

12 MALE PARTICIPANT: Okay. Well, there's no  
13 principals meeting on April 4th. There's just a  
14 deputy meeting.

15 MALE PARTICIPANT: All right. So, I don't  
16 know. I guess maybe is it on - who's going to that?

17 MALE PARTICIPANT: Me.

18 MALE PARTICIPANT: Okay. Well, I guess you  
19 need to bring that up because it just says, (b)(5)

20 (b)(5)

21 (b)(5)

22 will be discussed at the  
23 principals meeting on April 4th.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: So, yeah, I guess if you

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1 could bring that up, that would be good.

2 MALE PARTICIPANT: Yeah, yeah, I can do  
3 that.

4 MALE PARTICIPANT: I didn't see anything  
5 here on feed and bleed if you're talking about putting  
6 water in the core.

7 MALE PARTICIPANT: Well, that's what Chris  
8 was just referring to. Those are the Elmo questions.

9 MALE PARTICIPANT: Right, okay. That was -  
10 this is the Elmo, I mean, I don't know what Elmo's  
11 questions were specifically. This talks about the  
12 probability of another energetic event.

13 MALE PARTICIPANT: Yeah, that's one of  
14 them.

15 MALE PARTICIPANT: The line of - as I  
16 understood, the line of questioning was, okay, so, if  
17 the Japanese decide to go in this realm of just  
18 putting in 33 GPM or whatever the minimal flow rate  
19 is, then what is the worst that can happen? And worst  
20 in terms of an energetic event or what have you.

21 And then what strategies would we then add  
22 to our list of strategies we've already provided them  
23 to (inaudible).

24 MALE PARTICIPANT: Yeah, and at what point  
25 does an energetic release no longer remain plausible

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1 because you no longer have the mode of force?

2 MALE PARTICIPANT: Well, it depends what's  
3 driving the energetic release. In other words, if  
4 you're talking am I going to get more hydrogen, you  
5 know, that implies that there's still zirconium down  
6 there that hasn't oxidized. And so, now it's getting  
7 exposed to high-temperature steam.

8 MALE PARTICIPANT: Yeah.

9 MALE PARTICIPANT: As opposed to if - do we  
10 know if the drywell in Unit 1, for example, flooded  
11 up?

12 MALE PARTICIPANT: Um.

13 MALE PARTICIPANT: And (inaudible) to the  
14 vessel. Because if -- the core is in the bottom of  
15 the vessel, you know, and they got all that salt down  
16 there and we keep talking about these corrosion rates  
17 and stuff, you know. One could argue that the vessel  
18 could let go and drop this molten core or whatever is  
19 in there into the drywell, which probably has some  
20 water in the bottom at least, you know.

21 And then the question is, is there some  
22 kind of energetic steam explosion or just, you know, a  
23 very quick generation of steam that could, you know,  
24 if the O ring has failed, you'd get a release out  
25 through the top of the drywell, which would probably

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1 take some fission products with it.

2 MALE PARTICIPANT: Right.

3 MALE PARTICIPANT: So, I think it all kind  
4 of hinges on what the status of the vessel and the  
5 drywell are.

6 MALE PARTICIPANT: Right, and that's what  
7 the RST was going to look at to identify the answers  
8 to those questions, as well as if you're not going to  
9 vent or flood containment, what other strategies would  
10 make sense to pursue if you want to continue on the  
11 path that the Japanese have currently selected.

12 MALE PARTICIPANT: Yeah, we're working  
13 that, Mike. The other thing we're trying to do about  
14 this drywell seal and - apparently, there was some -  
15 somebody said that the kind of compartment above the  
16 drywell head was filled with water.

17 MALE PARTICIPANT: (b)(5)

18 (b)(5)

19  
20  
21 MALE PARTICIPANT: Right.

(b)(5)

22 (b)(5)

23  
24 MALE PARTICIPANT: Right.

25 MALE PARTICIPANT: So, how they're spraying

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1 anything up there is a little bit of a mystery.

2 MALE PARTICIPANT: Yes.

3 MALE PARTICIPANT: So, you know, as this  
4 has been the whole time fitting the picture, fitting  
5 the puzzle together, you know, exactly what happened  
6 is, you know, something we're trying to do.

7 MALE PARTICIPANT: Right. And, Brian, you  
8 got the word that there is newer fuel in that pool.

9 MALE PARTICIPANT: No, I didn't. I was  
10 asking and - so, there was newer fuel. It wasn't all  
11 12 years old.

12 MALE PARTICIPANT: That's correct.

13 MALE PARTICIPANT: Okay. I kind of  
14 suspected as much, but it just sounded weird.

15 MALE PARTICIPANT: Your suspicions were  
16 confirmed.

17 MALE PARTICIPANT: Okay, thank you.

18 MALE PARTICIPANT: I think the RST has a  
19 table somewhere that lists when they took fuel out.  
20 And as I recall, it was like last September.

21 MALE PARTICIPANT: You mean the refueling?

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: Yes.

24 MALE PARTICIPANT: So, I forgot what the  
25 number of bundles is that's in the spent fuel pool in

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1 Unit 1, but it's - there's a fair number of them that  
2 are fresher than 12-year-old fuel.

3 MALE PARTICIPANT: The spent fuel pool  
4 (inaudible) 292 bundles in it from GE Hitachi.

5 MALE PARTICIPANT: Right.

6 MALE PARTICIPANT: And there's I think -  
7 how many - how many (inaudible) are in - about 145 in  
8 a BWR core?

9 MALE PARTICIPANT: No, around 600 or so.

10 MALE PARTICIPANT: Well, maybe I was  
11 thinking -

12 MALE PARTICIPANT: That's (inaudible)  
13 number.

14 MALE PARTICIPANT: No, but that's also what  
15 they were discharging (inaudible), yeah.

16 MALE PARTICIPANT: (Inaudible).

17 CHRIS MILLER: Hey, Mike, Chris Miller. If  
18 I could while we're waiting, on the RadNet was the  
19 issue that the team was presenting the fact that they  
20 believe the RadNet would give better confidence  
21 because there's an additional set of sensors, or that  
22 they were more easily understood than the DOE sensors,  
23 or just they like the comfort of having more to have  
24 assurance in different areas?

25 MALE PARTICIPANT: I think it was a mixture

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1 (b)(5)

2

3 CHRIS MILLER: Okay.

4 MALE PARTICIPANT: (b)(5)

5 (b)(5)

6

7 CHRIS MILLER: Okay.

8 MALE PARTICIPANT: Right?

9 CHRIS MILLER: Yes.

10 MALE PARTICIPANT: (b)(5)

11 (b)(5)

12

13

14 (b)(5)

15

16

17

18 CHRIS MILLER: So, that's something like it

19 was coming out of the -- from the ambassador from

20 (inaudible).

21 MALE PARTICIPANT: That is correct.

22 CHRIS MILLER: Okay.

23 MALE PARTICIPANT: And the Chairman, I

24 understood, discussed that with the ambassador and

25 with Chuck and the team when he was in country.

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1 CHRIS MILLER: Okay.

2 MALE PARTICIPANT: So, the request actually  
3 came from the Chairman and, you know, that was  
4 clarified for our benefit in following conversations.

5 CHRIS MILLER: Okay. So, somehow we  
6 managed to turn off what came from the -

7 MALE PARTICIPANT: Well, we looked at it  
8 technically and we said what DOE has deployed and what  
9 the Japanese have deployed is better than what you get  
10 with -

11 CHRIS MILLER: Yeah, okay.

12 MALE PARTICIPANT: Oh, hey, Mike, while  
13 you're on the phone - are you still there?

14 MALE PARTICIPANT: I'm here.

15 MALE PARTICIPANT: Okay. You know, with  
16 that - with that DOE Science Council -

17 MALE PARTICIPANT: Yes.

18 MALE PARTICIPANT: -- we're participating  
19 in every phone call.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: All right. From your  
22 email - I guess it was on Friday or something, but,  
23 yeah, we still participate in every phone call and  
24 interact with them and the like.

25 But my understanding when I talked with

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1 John Kelly (phonetic), was that DOE was going to try  
2 to distill all of their suggestions and comments. And  
3 then they would be the ones that would present them to  
4 the consortium as opposed to, I mean, John was just  
5 making a list, I think.

6 And the stuff I think I sent you Friday -

7 MALE PARTICIPANT: Yes.

8 MALE PARTICIPANT: -- that was just a list  
9 of, you know, John writing down everything that these  
10 guys have been chatting about.

11 MALE PARTICIPANT: Right, understood.

12 MALE PARTICIPANT: But it didn't - I didn't  
13 interpret it that this was coming from DOE as their  
14 recommendation.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: Okay. And so, I was  
17 more inclined to let John and DOE distill those and  
18 then decide which ones they wanted to forward to the  
19 consortium or to the RST and the like here to  
20 seriously consider.

21 MALE PARTICIPANT: Okay, that's fine. I  
22 think the important thing is that we're working as one  
23 government and not kind of going down our own parallel  
24 paths and presenting conflicting recommendations back  
25 to the Japanese.

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1 MALE PARTICIPANT: Right. And that's why  
2 I've been trying to talk to - I talk to John Kelly  
3 about once a day -

4 MALE PARTICIPANT: Okay.

5 MALE PARTICIPANT: -- just to make sure  
6 that we're all aligned in terms of, you know, looking  
7 - making sure we're staying in process.

8 MALE PARTICIPANT: Yeah, well, that works  
9 for me.

10 MALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: Mike, are you there?

12 MALE PARTICIPANT: I'm here. Brian and  
13 Marti are there in the operations center.

14 MALE PARTICIPANT: Okay.

15 BRIAN SHARON: Chairman, this is Brian  
16 Sharon.

17 MALE PARTICIPANT: Hi, Brian. How are you?

18 BRIAN SHARON: Okay. We're presuming  
19 you're at the airport, right?

20 MALE PARTICIPANT: Almost there.

21 BRIAN SHARON: Almost there, okay. All  
22 right. I'll try and make this quick in terms of the  
23 update. Some stuff you may be aware of.

24 Unit 1, the containment pressure is going  
25 down. Went from 25 PSIG to 7.8 over two days.

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1 There's speculation that the O ring on the drywell  
2 head may be leaking.

3 MALE PARTICIPANT: Okay.

4 BRIAN SHARON: Let's see. Right now the  
5 team is working on alternative methods for introducing  
6 nitrogen into the system.

7 MALE PARTICIPANT: And that's for Unit 1  
8 only or -

9 BRIAN SHARON: Yes, just Unit 1.

10 MALE PARTICIPANT: Yeah, okay.

11 BRIAN SHARON: And then we're also working  
12 with industry looking at some questions I guess that -  
13 was it Elmo Collins has posed about what kind of  
14 energetic events might evolve based on if we were to,  
15 you know, inject more water.

16 MALE PARTICIPANT: Okay.

17 BRIAN SHARON: And I just actually saw  
18 something on television where the Japanese were saying  
19 that they have to find the balance between putting in  
20 enough water to cool the core, but they don't want to  
21 put in too much so it leaks out and then they have  
22 more radiation and contamination to deal with.

23 MALE PARTICIPANT: Yes.

24 BRIAN SHARON: So, that's just their  
25 perspective on it.

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1 MALE PARTICIPANT: Okay.

2 BRIAN SHARON: TEPCO confirmed dose rates  
3 at about 10 R per hour from a cable storage kit  
4 located next to the Unit 2 discharge point with a  
5 crack approximately 20 centimeters in the side wall  
6 and it's leaking directly into the sea.

7 MALE PARTICIPANT: Okay.

8 BRIAN SHARON: And they've got reports that  
9 TEPCO is trying to use a polymer absorbent with that -  
10 I guess it's injected under high pressure, but that  
11 was not successful in slowing the leak.

12 MALE PARTICIPANT: Okay.

13 BRIAN SHARON: NISA reported that -

14 MALE PARTICIPANT: I'm sorry, Brian.

15 BRIAN SHARON: I'm sorry?

16 MALE PARTICIPANT: Brian, on that, is that  
17 the source of that water? I think the last that I  
18 heard from Chuck was that there was a sense, I mean,  
19 I'm not sure it was for Unit 2, but some of the water  
20 that's been identified was tsunami water and not  
21 necessarily coming from the injection water.

22 Do we have a better sense of that?

23 BRIAN SHARON: Um, Bill (inaudible) is  
24 here. He's shaking his head. He doesn't know and I'm  
25 not sure. We can try and check, maybe check with the

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1 Site Team.

2 MALE PARTICIPANT: Okay, yeah, if you can -  
3 or it's not a high-priority item, but just if we can  
4 try and clarify that if we know.

5 BRIAN SHARON: Okay. As I was saying, NISA  
6 reported that on March 29th monitoring was conducted  
7 for about 106,000 people at a Fukushima (inaudible).  
8 And among them, 102 indicated levels above a hundred  
9 thousand counts per minute.

10 They were reexamined after they removed  
11 clothing, and the measured values went down to a level  
12 lower than the hundred thousand. They said there were  
13 no cases that would influence their health.

14 MALE PARTICIPANT: Okay.

15 BRIAN SHARON: Let's see. NISA also  
16 reported that workers at the plant, 21 had received  
17 doses in excess of a hundred millisievert or ten rem.  
18 And no worker had received a dose above Japan's  
19 guidance value of 250 millisieverts or 25 rem.

20 MALE PARTICIPANT: Okay.

21 BRIAN SHARON: And on April 1st, all  
22 restrictions on the consumption of drinking water by  
23 adults in the Fukushima (inaudible) had been lifted.

24 MALE PARTICIPANT: Okay.

25 BRIAN SHARON: So, the only remaining

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1 restriction is on water consumption for children in  
2 (inaudible). I guess that's a town there.

3 MALE PARTICIPANT: And are general dose  
4 rates going up or down at this point beyond kind of  
5 the plant boundary?

6 BRIAN SHARON: I don't know for certain. I  
7 know I was watching on the television and it said that  
8 levels were decreasing, but we can check with the -  
9 (inaudible) and see what they say.

10 Let's see. (b)(5)

11 (b)(5)

12 MALE PARTICIPANT: Yeah, I'm okay. You  
13 don't need to go through the Principals meeting.

14 BRIAN SHARON: Okay. And I think that was  
15 really about all in terms of the updates.

16 MALE PARTICIPANT: Okay.

17 (Discussion off the record.)

18 BRIAN SHARON: Yeah, it says available dose  
19 information shows a downward trend.

20 MALE PARTICIPANT: Okay, good.

21 BRIAN SHARON: Okay.

22 MALE PARTICIPANT: So, conditions are  
23 improving. Good.

24 Anything else that you had for me?

25 BRIAN SHARON: No, I think that was about

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1 it unless you have any questions.

2 MALE PARTICIPANT: Not right now.

3 BRIAN SHARON: Okay.

4 MALE PARTICIPANT: Appreciate it,  
5 everybody.

6 BRIAN SHARON: All right. Have a good  
7 flight.

8 MALE PARTICIPANT: Thank you.

9 BRIAN SHARON: Bye-bye.

10 MALE PARTICIPANT: Still looking at  
11 declining trends on dose rates, general dose rate.

12 (Discussion off the record.)

13 MALE PARTICIPANT: The Chairman's question  
14 about the water that's in the turbine building -

15 MALE PARTICIPANT: Source of the water,  
16 yeah.

17 MALE PARTICIPANT: I don't think it's the  
18 turbine building.

19 MALE PARTICIPANT: Well, it's in the pipe  
20 chase that they refer to as the trench.

21 MALE PARTICIPANT: It goes out towards the,  
22 you know, near the sea. And there's a crack and  
23 (inaudible). If you watch the television, they've got  
24 a nice little cartoon.

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: You had a picture of it  
2 there on your table in the ET room last night.

3 MALE PARTICIPANT: Okay. Apparently, I  
4 guess there's water that's starting to flow out into  
5 the ocean that's contaminated. And the question is,  
6 where is it coming from?

7 And the Chairman was asking was it water  
8 that was left over when the tsunami flooded everything  
9 and filled that thing up, or -

10 MALE PARTICIPANT: At 10 Rs per hour, I  
11 mean, that's - last night it was a hundred Rs per  
12 hour.

13 MALE PARTICIPANT: Should be a hundred Rs  
14 per hour.

15 MALE PARTICIPANT: Oh, a hundred Rs per  
16 hour.

17 MALE PARTICIPANT: Yeah.

18 MALE PARTICIPANT: So, that's even worse.

19 MALE PARTICIPANT: Well, it might be  
20 actually both (inaudible).

21 MALE PARTICIPANT: Well, maybe some of it  
22 was left in there from the tsunami and then it, you  
23 know.

24 MALE PARTICIPANT: Right.

25 MALE PARTICIPANT: (Inaudible) some of that

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1 (inaudible) water or turbine (inaudible) water get in  
2 there, but -

3 MALE PARTICIPANT: Yeah, and the Chairman,  
4 I mean, the Chairman said that wasn't a priority, by  
5 the way.

6 MALE PARTICIPANT: Of course. Still, the  
7 Chairman (inaudible).

8 FEMALE PARTICIPANT: (Inaudible).

9 MALE PARTICIPANT: (Inaudible) coincidence  
10 there if (inaudible) flood into the sea at two liters  
11 a minute.

12 FEMALE PARTICIPANT: (Inaudible).

13 MALE PARTICIPANT: Two liters a minute is  
14 30 GPM, which is (inaudible).

15 (Laughter.)

16 (Speaking over each other.)

17 MALE PARTICIPANT: Well, I guess the  
18 question is, do we know -

19 MALE PARTICIPANT: (Inaudible).

20 MALE PARTICIPANT: -- with the decay heat  
21 levels where they are right now, what's 30 GPM into  
22 the core?

23 I mean, is that going to boil everything  
24 off, or is that going to (inaudible) water that's  
25 going to start to flood up something?

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1 MALE PARTICIPANT: Well, even if it's  
2 boiling off, you know, the amount of mass is still  
3 there unless it's leaking out and there's some, you  
4 know.

5 MALE PARTICIPANT: Well, I kept asking that  
6 question and that is if they're just putting in enough  
7 to boil it, okay, then the steam has to be going  
8 somewhere. Which means it's going down in the  
9 drywell, down into the -

10 MALE PARTICIPANT: Condensing, I mean  
11 (inaudible).

12 MALE PARTICIPANT: (Inaudible) pressure  
13 pool and then they - but they've got to periodically  
14 vent before they don't - they can't build up pressure  
15 forever. They can't condense it forever.

16 MALE PARTICIPANT: Right. But as you can  
17 see, it's, I mean, the pressure is going down. You  
18 said 20 pounds to 10?

19 MALE PARTICIPANT: Down to 7.8, yeah.

20 MALE PARTICIPANT: 25 to 7.8.

21 MALE PARTICIPANT: No, no.

22 MALE PARTICIPANT: Well, that's what's  
23 written here.

24 MALE PARTICIPANT: I know. It's gone down  
25 about two pounds over the last couple days. It's went

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1 from 10 - and then the last time I was on shift, which  
2 was two days ago, it was about 10 pounds.

3 MALE PARTICIPANT: Yeah, I think they might  
4 be referring to a little bit further back.

5 MALE PARTICIPANT: Yeah, that is two weeks  
6 ago it was at 25 pound, but not two days ago. I mean,  
7 we can get you that. We can correct that number.

8 MALE PARTICIPANT: Yeah, you ought to check  
9 that because I recall Thursday it was at 25 pounds.

10 MALE PARTICIPANT: Yeah, like I said, I was  
11 here two days ago and it was like ten pounds.

12 MALE PARTICIPANT: All right, we'll check  
13 it out.

14 MALE PARTICIPANT: Yeah, let's get the  
15 right number in here at least so we don't -

16 MALE PARTICIPANT: This is in the  
17 (inaudible)?

18 MALE PARTICIPANT: It was in that one-page  
19 briefing that's now a page and a quarter.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: Right up at the top  
22 here.

23 But the other question is if they're  
24 putting in 30 GPM, where's it going? Do we know?

25 MALE PARTICIPANT: Yeah, we've got calcs

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1 from, you know, (inaudible) their belief is that we're  
2 getting ready to flood up, fill up the entire drywell.

3 And, you know, we're going to cover the vents and  
4 we're not going to be able to vent containment.

5 The Japanese are saying, no, that's not  
6 the case. And as a matter of fact, we don't have that  
7 much water in the drywell at all. So -

8 MALE PARTICIPANT: But we said the  
9 (inaudible) pump (inaudible) are leaking and the water  
10 is going in (inaudible) and it's got to be going out  
11 to the field (inaudible) drywell.

12 MALE PARTICIPANT: Yeah, I -

13 (Speaking over each other.)

14 MALE PARTICIPANT: Unit 2 would stop that  
15 leak (inaudible).

16 MALE PARTICIPANT: Yeah, yeah.

17 MALE PARTICIPANT: So, where does it leak  
18 into from the drywell? (Inaudible) reactor building?

19 MALE PARTICIPANT: Yeah, I mean, what  
20 happened is -

21 MALE PARTICIPANT: Is there any  
22 communication over to the turbine building?

23 MALE PARTICIPANT: Oh, yeah.

24 MALE PARTICIPANT: I mean, they have - Unit  
25 1 has safety-related equipment in the turbine

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1 building. Sort of like Oyster Creek, right. Oyster  
2 Creek today has, you know, back before we had this  
3 kind of safety/non-safety divide, there was safety-  
4 related equipment in the Unit 1 turbine building.

5 Which tells me that there are pipe chases,  
6 cable runs, fire stops and, you know, very likely  
7 leaking.

8 So, we've got lots of penetrations from  
9 the reactor building to the turbine building. And,  
10 you know, you're going to get overflow from the  
11 drywell if that's where it's leaking. Overflow that's  
12 going to go down into the reactor building. It's  
13 going to leak out the pipe chases into the turbine  
14 building.

15 And there's been water on the turbine.  
16 So, but we'll confirm kind of the - we need to  
17 continue to work that kind of where-is-the-water-going  
18 issue.

19 MALE PARTICIPANT: Where is it coming from?  
20 Where is it going?

21 MALE PARTICIPANT: Yes.

22 MALE PARTICIPANT: Yes.

23 MALE PARTICIPANT: (Inaudible).

24 MALE PARTICIPANT: While we were on shift  
25 last night, I think Becky or Karen found some YouTube

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1 posting of old videos of the construction of Fukushima  
2 Daiichi Number 1. So, that was quite an interesting  
3 viewing.

4 I think it took like 15 minutes or  
5 something like that, but your team might be interested  
6 in that if they haven't seen it.

7 MALE PARTICIPANT: Who did that? Becky?

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: On PMT business, there  
11 was a question about cooperation with NOAA on oceanic  
12 transport.

13 Has that loop been closed, do we know?

14 MALE PARTICIPANT: This is Mark  
15 (inaudible). We've got that as an action (inaudible).  
16 We tried to get him over the weekend from (inaudible)  
17 and didn't have any luck. We're going to try to catch  
18 up tomorrow.

19 MALE PARTICIPANT: Okay. So, they're not  
20 activated over the weekend?

21 MALE PARTICIPANT: Apparently not.

22 MALE PARTICIPANT: Okay. And Chuck and  
23 Elmo said that they have somebody there in the Embassy  
24 that's looking at the groundwater contamination on  
25 site. So, that's another piece of the analysis that

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1 they were hoping to link into as part of the global  
2 assessment.

3 (Discussion off the record.)

4 MALE PARTICIPANT: My family just came  
5 home.

6 MALE PARTICIPANT: Yes.

7 MALE PARTICIPANT: Anything else that you  
8 need me for?

9 MALE PARTICIPANT: I can't think of  
10 anything. Guys, anything?

11 MALE PARTICIPANT: Did we clear the sharing  
12 of our list with Mark Shaffer (phonetic) so that he  
13 can work it with the IAEA there? This is a consortium  
14 list.

15 MALE PARTICIPANT: Yeah, the list has been  
16 provided to Mark and he's working on his end.

17 MALE PARTICIPANT: Okay, great.

18 MALE PARTICIPANT: Okay, yeah, we've got a  
19 consortium for, I guess, tonight at eight o'clock.  
20 And so, we'll just go through the list again and see  
21 what the status is of everything.

22 MALE PARTICIPANT: Yeah, good luck with  
23 that.

24 MALE PARTICIPANT: Yeah, I had fun Thursday  
25 night doing that.

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1 MALE PARTICIPANT: It was painful. It  
2 underscored for me the benefit of some other agency  
3 taking on that responsibility.

4 MALE PARTICIPANT: Well, yeah, I mean,  
5 we're sort of coordinating, but we really have no  
6 authority or anything. (Inaudible) coerce people to  
7 do so.

8 MALE PARTICIPANT: Yeah, I think they're  
9 making progress. There's a Mr. Howard (phonetic)  
10 there who we think works for the State Department in  
11 the Embassy and he seems to be ready to stand up with  
12 J-4 support of logisticians and planners.

13 And once they get in place, and hopefully  
14 they'll be in place early this week, then we can turn  
15 that over to them and they can do all that government-  
16 industry coordination.

17 MALE PARTICIPANT: That would be a good  
18 thing.

19 MALE PARTICIPANT: Yes. And I guess it was  
20 disappointing to hear that only one train of that  
21 four-train system actually arrived and they decided to  
22 cancel the other three trains.

23 MALE PARTICIPANT: Yeah, I mean, it took so  
24 long to get there, I guess. And now I guess it's not  
25 really part of their strategy or I don't know that

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1 they're even using it.

2 I mean, I know that it's there, the water  
3 barge is there, but I have not heard that they were  
4 actually employing it.

5 MALE PARTICIPANT: The status is one train  
6 of the Bechtel pumping system is on site. The first  
7 barge carrying fresh water is also on site. The  
8 second barge is being outfitted with a higher capacity  
9 transfer pump that -

10 MALE PARTICIPANT: Yeah, that's all the  
11 information. I think the second barge is on site.

12 MALE PARTICIPANT: Okay.

13 MALE PARTICIPANT: Okay. Well, I'm going  
14 to sign off then.

15 MALE PARTICIPANT: All right, Mike. See  
16 you tomorrow.

17 MALE PARTICIPANT: Thanks, Mike.

18 MALE PARTICIPANT: Take care.

19 (Discussion off the record.)

20 MALE PARTICIPANT: (Inaudible) status they  
21 didn't need the rest of the pumps. That was one of  
22 the questions we had Thursday night from the  
23 consortium, you know, do they need the rest of those  
24 pumps or not.

25 And I think Alan Blamey was supposed to be

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1 checking with them.

2 MALE PARTICIPANT: Is Alan in Tokyo now, or  
3 where is he?

4 MALE PARTICIPANT: He was in Tokyo  
5 Thursday, yeah. And he had - because there was a lot  
6 of stuff that was on that list that had question marks  
7 next to it and nobody knew where, I mean, it was just  
8 like the Japanese had requested it.

9 I mean, like one set they requested body  
10 armor. And everybody goes, what the hell is body  
11 armor, you know.

12 And the question was, you know, was there  
13 a translation problem? Did they really mean  
14 (inaudible) or what?

15 And, you know, so we told Alan, please  
16 talk to them and get a clarification, you know. What  
17 was it that you really wanted and do you need it, or  
18 don't you?

19 MALE PARTICIPANT: Who does Alan work for?

20 MALE PARTICIPANT: (Inaudible). He's  
21 Region II, isn't he?

22 MALE PARTICIPANT: He's the Region II branch  
23 chief. He's over there for our team. He was in like  
24 the second round of -

25 MALE PARTICIPANT: Because we had a whole

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1 list of stuff that when I asked people what's the  
2 status, it was just dead silence on the -

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: Matter of fact, we had  
5 one situation where we found out that DOE was planning  
6 on trying to get tanks, storage tanks. And then we  
7 heard that somebody, some admiral over in Hawaii was  
8 trying to get tanks. And neither of them knew what  
9 the other one was doing.

10 And so, it took 15 minutes on the phone  
11 just to get names and phone numbers so that they could  
12 call one another to figure out, you know. And I still  
13 don't know if they ever called each other and sorted  
14 it out or whether they're all --

15 MALE PARTICIPANT: Well, I think the cross-  
16 reference list that you were referring to, Mark, would  
17 be helpful in that. So, it's supposed to cross-  
18 reference all this that they had at the State  
19 Department.

20 MALE PARTICIPANT: Right.

21 MALE PARTICIPANT: (Inaudible) Embassy with  
22 our list that we're getting from the consortium. If  
23 the tank (inaudible) State Department kind of thing.

24 MALE PARTICIPANT: I'm going to go over to  
25 my office.

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1 MALE PARTICIPANT: Okay.

2 MALE PARTICIPANT: My suggestion to you all  
3 just is to go through this and make sure that we weed  
4 out the inaccuracies. This sounds like you had one -

5 MALE PARTICIPANT: Yeah. They creep in,  
6 and then you got to weed them out, and then they creep  
7 back in.

8 MALE PARTICIPANT: We'll do that. I'll  
9 work on that.

10 (Speaking over each other.)

11 MALE PARTICIPANT: All right, thanks. See  
12 you all later.

13 MALE PARTICIPANT: Thank you very much.

14 FEMALE PARTICIPANT: You're welcome.  
15 (Inaudible).

16 MALE PARTICIPANT: Okay. So, I guess,  
17 Brian, we have an update to this to put out at 6:00  
18 and I'll try to get all these inaccuracies fixed.

19 And what I mean by this is the -

20 MALE PARTICIPANT: (Inaudible).

21 MALE PARTICIPANT: The data goes out at  
22 6:00. So, we'll start working on that around 5:00.  
23 And I'll try to have this thing updated with  
24 (inaudible) before the end of our shift. I don't  
25 think we have to put that out again until the next

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1 shift.

2 MALE PARTICIPANT: (Inaudible) before the  
3 eight o'clock (inaudible).

4 MALE PARTICIPANT: Yeah, the consortium.  
5 Okay.

6 MALE PARTICIPANT: Where we are with all  
7 those items.

8 MALE PARTICIPANT: Okay. So, you need that  
9 status sheet of where we are with the items. And  
10 that, I'm guessing, that they have that (inaudible),  
11 right?

12 MALE PARTICIPANT: Yeah, somebody is doing  
13 that.

14 MALE PARTICIPANT: Okay, I'll check on it.  
15 (No conversation.)

16 MALE PARTICIPANT: Thank you, both. That  
17 is very helpful.

18 MALE PARTICIPANT: Yes. The second barge  
19 is there transferring water back and forth between  
20 barges. We'll fix that up.

21

22

23

24

25

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1  
2  
3  
4  
5 (CONFERENCE CALL INITIATED)

6 BRIAN SHARON: Okay, folks. We're going to  
7 begin the conference. I'm going to begin roster  
8 playback.

9 TELEPHONE RECORDING: There are currently  
10 14 participants in your conference. The following  
11 people are in the conference.

12 MALE PARTICIPANT: NRC headquarters  
13 operations officer.

14 BILL WEBSTER: Bill Webster at INPO.

15 MALE PARTICIPANT: Brian (inaudible), INPO.

16 RICK NIELSON (phonetic): Rick Nielson  
17 (phonetic), INPO.

18 MALE PARTICIPANT: (Inaudible) Joint Staff  
19 J-4.

20 ALAN BLAMEY: Alan Blamey, NRC Japan Team.

21 MALE PARTICIPANT: (Inaudible), INPO.

22 MALE PARTICIPANT: Industry Support Team,  
23 Tokyo.

24 LEE GARD: Lee Gard from INPO.

25 LT. COL. JONATHAN SMITH: Lt. Col. Jonathan

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1 Smith, Pacific Command, J-9.

2 ALICE CAPININI (phonetic): Alice Capinini,  
3 Department of Energy.

4 JAY TILDEN: Jay Tilden, DOE/NNSA.

5 TELEPHONE RECORDING: The roster playback  
6 is complete.

7 BRIAN SHARON: Okay, good evening. This is  
8 Brian Sharon at NRC. I'm the ET director at least  
9 this evening.

10 And I was on the call with the consortium  
11 on Thursday night. I think the other folks that have  
12 been acting as the ET director followed it Friday.  
13 And I don't know whether you had one Saturday.

14 But anyway, what I would propose is have  
15 you all gotten an updated list of action items? Has  
16 everybody received an updated list of the action items  
17 that should say -

18 BILL WEBSTER: This is Bill Webster. I  
19 think that all went out on email earlier this  
20 afternoon.

21 BRIAN SHARON: Right.

22 BILL WEBSTER: So, I think at least for the  
23 INPO staff, we're pretty confident we have the most  
24 updated list.

25 BRIAN SHARON: Okay. I just want to make

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1 sure, because that's what I'm going to be working  
2 from.

3 Okay. Well, let me assume everybody's got  
4 it. So, I'm going to just work down. These things  
5 are actually - the item numbers now are not  
6 sequential.

7 So, the first one on my list is Item 1,  
8 which is provide radiation monitors, survey meters,  
9 friskers requested by government of Japan and TEPCO.  
10 Hand and foot monitors, two locations. It says here  
11 the NRC team working with USAID, INPO and Rick  
12 Nielson.

13 Says the activity is awaiting  
14 authorization of commercial transport for (inaudible)  
15 monitors. The US Embassy is to advise. INPO to query  
16 utility (inaudible) equipment. The process of  
17 approving transportation needs to be solidified, and  
18 shipping payments are being investigated as to who  
19 will pay for the shipment.

20 So, let me ask INPO is there anything  
21 newer that we should add here or know about?

22 GARY WALTERS (phonetic): This is Gary  
23 Walters (phonetic) from INPO. No, that's current as I  
24 know it right now.

25 BRIAN SHARON: Okay.

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1 RICK NIELSON: I can add something to that,  
2 too. Thanks, Gary. This is Rick Nielson.

3 There was - because South Texas has one of  
4 their parcels, they've got two parcels, one of them  
5 had some internal contamination to that. And that may  
6 be difficult to - it would be DHL.

7 So, one thought that came up today during  
8 our supply chain phone call was to actually ship Texas  
9 parcels to Bruce (phonetic) and then include them in  
10 whatever shipment Bruce had. That might make it  
11 easier.

12 Their packages are also quite a bit larger  
13 than San Onofre. So, the expense borne by that might  
14 go better combined with Bruce's.

15 So, that's something whoever is  
16 authorizing the shipment should take into account.

17 BRIAN SHARON: Okay.

18 ALAN BLAMEY: This is Alan at the Embassy  
19 on the NRC Japan Team. I do believe that the DART  
20 (phonetic) team will be back in today.

21 So, I think we're going to try and move  
22 this one forward a little bit quicker than we have in  
23 the past from the logistics standpoint.

24 So, INPO will probably be receiving a  
25 call, I would think, either later today or early

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1 tomorrow to help coordinate some of the logistics  
2 through the DART team.

3 RICK NIELSON: Yes, very good. One other  
4 thing that I would add to - the form has changed, and  
5 it includes quite a few additional items which I think  
6 are very good. Really appreciate doing that.

7 We'll have to backfit some of that stuff  
8 to make it current, this particular item, but I think  
9 that's going to add a lot.

10 The thing I wanted to mention about South  
11 Texas in terms of incurring the cost of that, we don't  
12 have an answer from them yet. They're a different -  
13 they're not a utility. They're an operating company  
14 and they have three owners.

15 And in order to clear this particular one  
16 for them in terms of them bearing the cost, they have  
17 to get with each of their three owners to validate  
18 that.

19 So, that's going to - that may take a  
20 couple of days if that's still an important  
21 consideration.

22 So, just we need to bear that in mind that  
23 not everyone who is going to ship things is a utility  
24 and can make quick decisions on incurring the cost.

25 BRIAN SHARON: Okay. Anything else on this

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1 item?

2 RICK NIELSON: Not from INPO.

3 BRIAN SHARON: I'm sorry?

4 RICK NIELSON: Not from INPO.

5 BRIAN SHARON: Okay. The next one was the  
6 conduct of (inaudible) by the radiation diffusion  
7 model. It says compared to (inaudible) simulation by  
8 the Japanese (inaudible).

9 My understanding is that the - well, the  
10 action is with DOE right now in terms of the lead for  
11 this.

12 Alice, you're on for DOE?

13 RON CHERRY: This is Ron Cherry in DOE  
14 Tokyo. Do we have someone from headquarters, DOE  
15 headquarters on the line?

16 FEMALE PARTICIPANT: Yeah, sorry. I had  
17 (inaudible), yeah. (Inaudible).

18 JAY TILDEN: Yeah, Jay Tilden is on. We  
19 updated that. So, you know, coming into this, you  
20 know, we - I, you know, I don't know - I don't know  
21 what it is exactly we're going after. I see the  
22 updated in the comments.

23 Ron, do you have, I mean, what are we  
24 trying to do here?

25 MALE PARTICIPANT: Yeah, the goal here is

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1 to have the US modelers, I think specifically NARAC  
2 (phonetic) to - and the Japanese modelers who are  
3 running the (inaudible) simulation code to basically  
4 share each other's model as we - and in particular as  
5 we continue to share in both directions the data that  
6 we're taking from various air, as well as ground  
7 monitoring. That we continue to also share  
8 information on the simulations that we are running  
9 individually.

10 So, I think the discussions are still  
11 going on about the specifics of how we do that. There  
12 was one simulation that was provided by Washington to  
13 the Ambassador with instructions that he share that  
14 with the Japanese government.

15 This was done - or the simulation was  
16 provided last week. There were some, I think some  
17 follow-on discussions with Washington about that. And  
18 at this point, I need to reconfirm that in fact those  
19 first simulations were shared with the government, but  
20 that would have been done at a high level.

21 The next step is to get to a point where  
22 we can have technical level discussions about our  
23 modeling efforts. And as I understand it, the  
24 discussions with the Japanese ministries on how to do  
25 that are still going on.

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1 JAY TILDEN: All right. So, I will weigh  
2 in tomorrow and try to figure out exactly, because it  
3 says they were having some conversations.

4 MALE PARTICIPANT: Yeah, Steve (inaudible)  
5 would be the person to check with on that, Jay.

6 JAY TILDEN: Is that Steve -

7 MALE PARTICIPANT: Steve (inaudible).

8 JAY TILDEN: Yeah, yeah.

9 MALE PARTICIPANT: And Deb Wilbur  
10 (phonetic) when she was - Debbie Wilbur when she was  
11 here, was also involved in those discussions. So,  
12 those would be two good people to check with on the  
13 Washington end.

14 And from my part, I'll check with the  
15 front office.

16 JAY TILDEN: All right, I will get on that.  
17 I know that, you know, the bottom line here is that  
18 NARAC and (inaudible) is running the models  
19 (inaudible) their mind's eye doing some sort of a  
20 study of the two different simulations (inaudible)  
21 make sure that the Japanese model is good. Probably  
22 just a bridge too far right now, but I'll find out.  
23 I'll talk with Deb and Steve.

24 BRIAN SHARON: Okay, good. Thank you.

25 Let's see. The next one was use of

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1 (inaudible) semiconductor detectors for measuring the  
2 extent to which (inaudible) are exposed to radiation.

3 The status I have here is DOE is  
4 delivering two detectors on April the 5th, and two to  
5 four more detectors will ship the same week.

6 Is that the current status?

7 MALE PARTICIPANT: Yep, that's it.

8 BRIAN SHARON: Okay, good.

9 The next one was use of radiation  
10 monitoring devices on the ground, mobile and  
11 stationary type. This again was DOE. It says, mobile  
12 monitoring is closed. Stationary monitoring is the  
13 open item.

14 Is there anything new on that?

15 JAY TILDEN: Not that I (inaudible). I  
16 know that DOE and DoD are looking at the equipment  
17 that they have to figure out if -- this is basically  
18 responding to the Prime Minister's request to have -  
19 or the science advisor to the Prime Minister as kind  
20 of a warning line Tokyo to set up selected ground  
21 monitors, you know.

22 I really - I think we're probably trying  
23 to figure out some of the utility of that, but, you  
24 know, to see whether or not we would know if there was  
25 some sort of a, you know, whether (inaudible) that

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1 would migrate the (inaudible) and things downwind.

2 So, to do another (inaudible), I think  
3 that's it right now.

4 RON CHERRY: Yeah, this is Ron in Tokyo and  
5 I agree with Jay. I think there is a - one additional  
6 point is that I believe that the DOE AMS team is  
7 having some discussion about having - installing some  
8 ground monitoring devices.

9 And secondly, there has been some  
10 discussion here. I do not know the origin of it, but  
11 the possibility of having EPA's RadNet or something  
12 like it installed.

13 And so, we need to get some additional  
14 follow-up information on that.

15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: It's our understanding  
17 as well is that there is kind of an EPA HHF kind of a  
18 food environment and kind of a multifaceted team  
19 that's in that's probably going to be part of the mix  
20 of deciding how does one ensure that you are doing  
21 appropriate food, personnel, cargo monitoring, you  
22 know, across the board for an area as large as this.

23 MALE PARTICIPANT: Right. I heard this  
24 morning that EPA has people here on the ground now.

25 MALE PARTICIPANT: Should we get them on

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1 the call?

2 MALE PARTICIPANT: Huh?

3 MALE PARTICIPANT: Should we get them on  
4 this -

5 MALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: We had a question raised  
7 here that should EPA be on the phones now?

8 RON CHERRY: I think there are several -  
9 this is Ron in Tokyo. There are a number of players  
10 here at the Embassy who are not on this call who need  
11 to be on it or on one like it.

12 We will have another meeting here at the  
13 Embassy at 11:15 to coordinate on an interagency  
14 basis.

15 MALE PARTICIPANT: Okay, do you want to  
16 talk to them and see if they want to join in from, you  
17 know, from where you are on these calls?

18 RON CHERRY: I'll raise that. And, Alan, I  
19 guess you're on the line, right? So, why don't we -  
20 we need to raise this question specific to EPA, but I  
21 think we also just need to raise the bigger question  
22 to Mark Wahl (phonetic) when we have that meeting at  
23 11:15.

24 MALE PARTICIPANT: Okay.

25 RON CHERRY: Do you agree?

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1           ALAN BLAMEY: Yes.     This is Alan.     I  
2 Completely agree.

3           MALE PARTICIPANT: (Inaudible) has there  
4 been any particular reason why they haven't been  
5 attending?     Again, I've been on this call since  
6 Thursday, and that's been an ongoing discussion.

7           Is there some -

8           ALAN BLAMEY: Yeah, as I mentioned over the  
9 weekend, I think the economic team, a lot of their  
10 staff has been supporting the DART team that was set  
11 up and now their staff is starting to come back on  
12 board and integrate.

13           So, that's actually going to free them up  
14 a little bit and be able to participate some more.  
15 So, I think the real issue before was their staffing  
16 participating in other areas of the DART which really  
17 had them very thin on staff.

18           MALE PARTICIPANT: I think that's right.  
19 And also in addition, the Embassy has been running a  
20 24/7 task force of its own.

21           So, many of the people especially in the  
22 economic section, have been doing shift work for the  
23 past three weeks. And that task force here within the  
24 Embassy just stood down this weekend.

25           MALE PARTICIPANT: Yeah, and I think just

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1 not to belabor the point, but the bottom line is Ron  
2 and I were talking and I think the Embassy wants to  
3 move forward with it, but we're hoping that towards  
4 the end of the week we now have the NRC list as far as  
5 numbering goes aligned with the Embassy list. And  
6 we're going to try to move to integrate these.

7 So, perhaps later in the week you'll see  
8 the Embassy staff start to ramp up a little bit and  
9 participate more in this call. So, you'll probably  
10 see the dynamics change as we move through this week  
11 and next week.

12 MALE PARTICIPANT: Okay, sounds good.

13 BRIAN SHARON: Okay, good. Let's move on  
14 to the next one, which is on the next page here. It's  
15 Embassy Item 5 and -- Embassy Number 5 and Item Number  
16 21, use of robotic devices. This is a DOE and DoD  
17 lead.

18 It says DOE is channeling the ground  
19 robotics and (inaudible) cameras only. UAVs  
20 (phonetic) and hand-helds are separate DOE - are  
21 separate. DOE is looking to send one robotics expert  
22 and two cameras experts and plans are still in the  
23 making.

24 Any update?

25 MALE PARTICIPANT: No, that - we're going

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1 to have a conversation tomorrow about whether or not  
2 indeed we think we need to send, you know, one each  
3 expert forward.

4 I know I gave Ron a heads up, I think,  
5 yesterday on that or it may have been Friday, but we  
6 need to get to a point where looking at all of the  
7 information we're sending, do we think - we think they  
8 can operate the talon, because they already have  
9 talons there.

10 The issue of course will always be  
11 unexpected things that happen and troubleshooting and  
12 what happens if their radiation sensing doesn't work  
13 the way we thought and GPS or whatever.

14 So, I hope we're going to come to closure  
15 tomorrow on is a person going. They can obviously  
16 leave slightly later than the equipment and probably  
17 get there still in time.

18 RON CHERRY: One other point. This is Ron  
19 again. On the comment that UAVs and hand-helds are  
20 separate, I think we can and perhaps should be more  
21 specific.

22 UAVs are being addressed by, I guess,  
23 DoD/US forces Japan in coordination with MOD. And  
24 hand-held monitoring, Alan, would this be in the  
25 domain of NRC and/or INPO?

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1 ALAN BLAMEY: I'd have to think about that.  
2 On the surface, that sounds reasonable. But I'd like  
3 to talk with INPO a little bit offline to make sure we  
4 -

5 RON CHERRY: I just didn't know because  
6 there is, you know, monitoring, radiation monitoring  
7 and so forth comes up in a lot of different context  
8 sometimes without a great deal of clarity, especially  
9 in the requests that we get from the Japanese.

10 I believe you've got monitors that are  
11 coming from industry. It's already been discussed.  
12 Dosimeters, I believe, are being handled now by the  
13 DART. And then you have the sensor packages that DOE  
14 will put on robots.

15 In terms of any other hand-held monitoring  
16 devices, I'm not aware of specific requests beyond the  
17 other things that I just mentioned.

18 MALE PARTICIPANT: And I believe that's  
19 correct. But if they - if the government of Japan  
20 actually wanted additional monitoring devices, I  
21 think, over what the industry has already provided, if  
22 I'm not mistaken, INPO has gone through and provided  
23 some additional information on sourcing dosimeters and  
24 things like that. And we would probably have to work  
25 with the DART on doing that, but I do believe INPO has

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1 already canvassed the US industry.

2 MALE PARTICIPANT: Right.

3 MALE PARTICIPANT: So, perhaps insofar as  
4 we don't think we have another request beyond the ones  
5 we've already gotten for hand-helds, I would probably  
6 just take that off of this, take that - remove the  
7 reference to hand-helds out of this comment, because  
8 that makes it sound like there is a request somewhere  
9 or an action that's being dealt with separately.

10 And I think we can be more specific, and  
11 are more specific, in this list.

12 MALE PARTICIPANT: Yeah, I guess I'm not  
13 sure where the hand-held comment, where that actually  
14 came from here because it doesn't look like it was in  
15 the original government of Japan request.

16 MALE PARTICIPANT: So, the only item that  
17 would stand on this while you take the UAVs and the  
18 hand-helds away, then you've just got the ground  
19 robotics as described in the third column of this  
20 item.

21 MALE PARTICIPANT: That's correct.

22 BRIAN SHARON: Okay, do you want to - on  
23 your next set of - when we send this out, do you want  
24 to mark it up?

25 MALE PARTICIPANT: Sure.

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1 BRIAN SHARON: Yeah, okay, why don't you  
2 mark (inaudible).

3 MALE PARTICIPANT: I'll coordinate that  
4 with Jay.

5 BRIAN SHARON: Okay. Okay, good.

6 Let's see. The next one, well, it's my  
7 favorite. The Bechtel pumps. It says the item is  
8 still open. It says that one train - there's one  
9 train that's installed and there is no need for  
10 further trains.

11 The DoD has the appropriate guidance.  
12 Alan is going to work with the Japanese Embassy  
13 officials to revalidate the need for these pumps.

14 RICK NIELSON: I think that's been done.  
15 This is Rick Nielson. We got word the other day that  
16 this was - that the other trains were not needed.  
17 That's been (inaudible) with Bechtel. They understand  
18 that and they'll be dispositioning the equipment as it  
19 (inaudible).

20 So, I don't see any further action on this  
21 one.

22 BRIAN SHARON: So, is this item closed  
23 then?

24 RICK NIELSON: It would be from my  
25 perspective at INPO. And Bechtel understands what to

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1 do. So, I would close it.

2 MALE PARTICIPANT: And the information we  
3 had from (inaudible) turned over the Japan government  
4 did not at that point in time request any additional  
5 pumps or trains.

6 BRIAN SHARON: Okay.

7 CHRIS MILLER: I'm sorry, Alan, Chris  
8 Miller. When was that validated with government of  
9 Japan?

10 ALAN BLAMEY: I did not validate that with  
11 the Government of Japan. That was, I think, last  
12 Thursday or Wednesday time frame. And that was turned  
13 over from the NRC here in Japan, the individual that  
14 was working that.

15 BRIAN SHARON: Okay, all right. Well,  
16 we're going to mark it "closed" then on our list,  
17 because I'm not sure what else needs to be done on it.

18 So, the next one was - let's see - use of  
19 an extinguishant/coolant with nitrogen with a question  
20 mark. NRC had the action. And, Alan, I think you  
21 were going to verify with the Japanese government  
22 exactly what it is that we're looking for here.

23 ALAN BLAMEY: Yes, there's no change to the  
24 status on that. We're in the process of trying to  
25 have a government-to-government meeting. And this is

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1 one of the items that needs to be discussed on that  
2 list to gain insight and understanding on the specific  
3 items that they were looking for.

4 We've had previous discussions with NISA.

5 And based upon those discussions, it really doesn't  
6 look like there's anything here for us to provide.

7 But if we move forward this week, we're  
8 going to try and set up government-to-government  
9 meetings specifically to go through these items on the  
10 list.

11 BRIAN SHARON: Okay.

12 MALE PARTICIPANT: Do you even have a  
13 limited idea of what they're looking for there, Alan,  
14 or is that still pretty mysterious?

15 ALAN BLAMEY: The answer is, no, it's still  
16 pretty mysterious. And quite frankly, I believe this  
17 one will drop off the list once they sit down and  
18 evaluate it through the different ministries.

19 MALE PARTICIPANT: Okay. Thank you.

20 BRIAN SHARON: Okay. The next item is  
21 temporary holding tanks for removing contaminated  
22 water. Coordinating agency is DOE and DoD. It says  
23 DOE NE is developing contaminated water management  
24 proposals.

25 And it says under Comments, developing

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1 recommendations for removal of water in basements of  
2 Units 1, 2 and 3.

3 The Toshiba team has investigated the use  
4 of large storage bladders to be used as temporary  
5 contaminated water storage.

6 Maybe you guys can help me. I'm a little  
7 confused on this because it sounds like there's  
8 actually two separate actions. One is developing  
9 recommendations and proposals for removing water, and  
10 then the other is the question of obtaining some sort  
11 of storage devices for holding it once it is removed.

12 MALE PARTICIPANT: There's really a couple  
13 of aspects in your - that's a good question. The  
14 reality is we need to come up with a way to move the  
15 water first and of course an agreement on where we  
16 want to put it.

17 And the item is still open because of  
18 needing an agreement on where to put water, whether  
19 it's in a bladder or elsewhere.

20 One of the items I have not heard back yet  
21 on status was the agreement, if there is one, to move  
22 the water potentially into the Unit 4 drywell. I have  
23 not heard an update on that yet.

24 Has anyone else heard whether or not we  
25 have an agreement to go ahead with that?

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1 MALE PARTICIPANT: I don't think we've  
2 heard anything here at NRC.

3 MALE PARTICIPANT: So, obviously with Unit  
4 4 reactor defueled, one of the options that was being  
5 evaluated, and I'll take the action here with the  
6 Industry Support Team to get the answer on that, but  
7 if the Unit 4 drywell is intact, it's probably a lot  
8 better place to store water than Unit 2, for example,  
9 right now because of the leaks that are going on  
10 there.

11 The Industry Support Team is working  
12 through water processing options and those are in  
13 progress, literally, as we speak as far as gaining  
14 acceptance for the proposed methodology.

15 MALE PARTICIPANT: What about the questions  
16 of actually supplying either tanks or whatever? I've  
17 seen a numerous - I mean, last Thursday when I was on  
18 a call, I think we had determined that there was both  
19 some efforts being undertaken by DoD, as well as  
20 Department of Energy.

21 And we wanted the point of contacts in  
22 both of those agencies in that area to maybe get  
23 together and talk, make sure that was a coordinated  
24 effort.

25 And then I've seen all sorts of things

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1 about everything from bringing in tanker trucks to  
2 digging a big pit and putting a liner in it to make a  
3 storage pond.

4 I'm still a little bit confused about, you  
5 know, who has the action, if any, with regards to the  
6 physically, you know, either providing tanks or making  
7 recommendations for storage.

8 MALE PARTICIPANT: Well, the Toshiba Team  
9 has made a formal recommendation. I have not heard  
10 back as to the acceptability of that from TEPCO, NISA  
11 and NRC perspectives.

12 MALE PARTICIPANT: You say NRC - what was  
13 the recommendation?

14 MALE PARTICIPANT: It's more complicated  
15 than we want to go into here, but one of the pieces of  
16 it was to transfer water into the Unit 4 drywell which  
17 holds several million gallon capable.

18 ALAN BLAMEY: And then I think - this is  
19 Alan. After going through the two lists last evening,  
20 the government list, as well as the list that the NRC  
21 has in front of us right now, I believe as we move  
22 forward this week there's really a component that's  
23 going to be waste water management that has multiple  
24 activities involving multiple government agencies, as  
25 well as multiple private industries.

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1 And there's probably at least a half a  
2 dozen items between the particular list that we're  
3 going through now and what's on the government list,  
4 and my guess is that's going to grow as well.

5 So, as we meet with the government of  
6 Japan and try and go through these lists, I believe  
7 that you're going to see those consolidate into a  
8 specific area which is going to be waste water  
9 management.

10 And as the path forward becomes more  
11 clear, I think you're going to start to see that  
12 flushed out with more actionable items.

13 But as of right now I think there's an  
14 awful lot of work going on in that area, and I'm not  
15 sure we've completely flushed out all the actionable  
16 items and the path forward.

17 MALE PARTICIPANT: Okay. So, we really  
18 need an action plan and, you know, a list of actions  
19 and milestones. And I'm guessing DOE's in the lead  
20 for that?

21 Is that a correct assumption?

22 ALAN BLAMEY: Well, I think - and I don't  
23 want to speak for DOE, but I've also heard DoD is  
24 doing some work in this area as well.

25 So, I think there's - as I said before, I

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1 think there's multiple agencies. And I think as the  
2 team starts to come together and forge through this  
3 issue, it will start to become much more clear who has  
4 the lead and for what tasks.

5 Jay, do you have anything to add on that?

6 JAY TILDEN: Just a second. I know Alice  
7 is on the line. Alice, if you have any addition -  
8 this is Jay Tilden again.

9 So, I think you hit a couple good points.

10 One is that it's good to have context about what the  
11 type of equipment is we're getting, but, two, we  
12 cannot start weighting into all the various approaches  
13 that are being proposed.

14 The government of Japan is reaching out  
15 (inaudible) but to a whole range of industry entities  
16 to get the best ideas they can. At some point they  
17 will end up coming back to DOE NE or whoever for some  
18 independent (inaudible) some of these ideas, as well  
19 as whatever we're putting together.

20 (Inaudible) and I don't know if Sal  
21 (inaudible). I know he said he tried. I remember  
22 seeing that on Friday. (Inaudible) is the  
23 deconflicting DoD and DOE, what are we doing? And to  
24 be blunt, us shipping stainless steel storage  
25 containers to the Japanese is not logical.

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1           That's like when they asked for lead, one  
2 of the first meetings we had asking us to ship them  
3 lead. I think you need to know more than just lead  
4 when most of the world's foundries are in the Far  
5 East, you know, are in Korea and in Japan.

6           So, we are still moving out. And I think,  
7 Ron, I sent you a couple notes on this of everyone  
8 involved.

9           We're still moving out. We're trying to  
10 get these three things that we've already committed, I  
11 believe, unless (inaudible) Japan decides to say, no,  
12 we don't need those.

13           MALE PARTICIPANT: Jay, I think that's  
14 right. The part of the driver for some of these  
15 actions on contaminated water and storage tanks and so  
16 forth is the paper that was provided last week that  
17 listed a range of things that DOE can provide in the  
18 way of either equipment and/or assistance.

19           And my understanding based on what I heard  
20 of discussions that went on last week with TEPCO, is  
21 that these six stainless steel tanks and this so-  
22 called trailer were identified based on information in  
23 that paper.

24           So, I believe Giulia Bisconti who's out  
25 here, or Dr. Lyons from the Office of Nuclear Energy

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1 was in that meeting, and she sent some information  
2 back. She sent a readout back to DOE NE, and I think  
3 perhaps maybe (inaudible) as well.

4 And that really is - and what was in her  
5 readout of the meeting with TEPCO is the - that's the  
6 latest status that I understand.

7 FEMALE PARTICIPANT: This is Alice. Sal  
8 was in travel status today. I will try to find out by  
9 tomorrow's call whether his attempts to reach Admiral  
10 Gregory (phonetic) were successful. He did get the  
11 contact information.

12 So, we'll try to get a better status on  
13 those communications tomorrow.

14 MALE PARTICIPANT: Alice, that would be  
15 great.

16 Now, I just heard Ron say "six tanks."  
17 That's the first time I've heard the word - or the  
18 number six. So, for Alice and Ron, is that what I  
19 heard and does that jive? It doesn't jive with me.

20 MALE PARTICIPANT: What I was told here in  
21 Tokyo was six tanks.

22 MALE PARTICIPANT: Was that a request from  
23 the Japanese government?

24 MALE PARTICIPANT: That is a request from  
25 TEPCO in a meeting that they had last week. To the

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1 best of my knowledge, that request from TEPCO has not  
2 been validated by the Japanese government through this  
3 Crisis Management Team that has been established.

4 MALE PARTICIPANT: Yeah, I mean, I think it  
5 was pointed out before. You know, I mean, I cannot  
6 believe that in the entire country of Japan they don't  
7 have six tanks and why they have to get them from the  
8 US or from wherever.

9 MALE PARTICIPANT: I would agree with that.  
10 I think, however, they were - they were simply  
11 reacting to something that they saw in the paper.  
12 That is - now, not having been in the meeting, that is  
13 entirely conjectural on my part.

14 I think the key thing is that the  
15 government needs to validate the request and we may  
16 need to ask certain questions of the government as  
17 part of that validation process.

18 I think if there had been any other  
19 discussions back in Washington such as the - what  
20 Alice is referring to, that sort of - any update on  
21 things like that would be extremely helpful.

22 MALE PARTICIPANT: Okay. I was going to  
23 say, Alan, when you have your meeting with the - with  
24 your Japanese government counterparts, is this  
25 something you could raise with them in terms of

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1 whether they want to validate this request from TEPCO  
2 and maybe push a little bit from the standpoint of,  
3 you know, why would they need tanks from the United  
4 States?

5 You know, I would think in such a highly  
6 industrialized country like Japan, they would have  
7 more than enough tanks somewhere.

8 ALAN BLAMEY: Yes, quite frankly if they  
9 did have the tanks, I think they'd prefer to buy them  
10 domestically in Japan anyway, you know. I think we  
11 need to continue to work through this water management  
12 issue.

13 I think this is going to be a very large  
14 issue as we move forward. There's a lot of players in  
15 it right now. And as I said before, I don't think  
16 we've completely flushed everything out.

17 And quite frankly, when we get the  
18 logistics people here embedded at the Embassy, that's  
19 one of the key attributes that we put together in the  
20 process that we're developing is, number one, if they  
21 request something of the US, is it domestically  
22 available in Japan?

23 And if the answer is yes, it can be  
24 obtained much more quickly in Japan than going  
25 overseas.

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1           So, it's going to work itself out. It's  
2 perhaps a little bit slower than what I think the NRC  
3 is used to because of the different governments that  
4 are involved, but just bear with the process.

5           MALE PARTICIPANT: All right.

6           ALAN BLAMEY: And also if you can get back  
7 to us with any other information from your point of  
8 view, that would really be very helpful. And I think  
9 really that's the next - the next thing that needs to  
10 happen on the critical path here.

11           We need to find out what Washington thinks  
12 about the request that TEPCO made before we can go too  
13 much further with the Japanese government.

14           FEMALE PARTICIPANT: Okay. I'll work on  
15 that for tomorrow's call.

16           MALE PARTICIPANT: I have a question for  
17 the group. This is from the Industry Support Team.

18           Overall water management, is there a head  
19 on this horse? Is there someone in charge of overall  
20 water management?

21           FEMALE PARTICIPANT: I know that there's a  
22 team at Department of Energy that's looking at this  
23 issue. I'm not familiar enough with this process to  
24 know whether that constitutes a lead.

25           I'll look to Jay and Ron to advise

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1 further, but I know that this is being actively worked  
2 within the Department of energy.

3 MALE PARTICIPANT: (Inaudible) working  
4 group here. Although, I'm not a hundred percent sure  
5 if it's specifically called the Water Management  
6 Working Group and (inaudible) try and get some  
7 additional information from that perspective.

8 They've created several high-level working  
9 groups. And I know this is a high priority for the  
10 government of Japan, but I'm not sure at this point in  
11 time the specific structure that's around that group.

12 MALE PARTICIPANT: Well, I mean, there's  
13 related items here too. I mean, on the next page Item  
14 13, you know, the Japanese government went directly to  
15 PNNL for assistance in water decontamination and  
16 storage issues.

17 I believe that Secretary of Energy Chu was  
18 looking into some sort of devices to decontaminate  
19 water. So, it's sort of like a many-headed beast  
20 here.

21 MALE PARTICIPANT: Absolutely. And that  
22 goes back to the comment that I made before. It needs  
23 to be all covered under water management with  
24 different facets of that so that they can be broken  
25 down into actionable items that can then be executed.

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1 And from my perspective not being directly  
2 involved in some of the discussions surrounding the  
3 water management, I think it has to work through a  
4 process so that the Japanese government can start to  
5 see a clear path that they're going to execute. And  
6 then we need to verify the list with them to ensure  
7 that everything that they've requested in the water  
8 management area we can capture and roll up into  
9 actionable items.

10 I'm just not convinced not being in any of  
11 the groups, I'm just not convinced that we're at that  
12 point yet.

13 MALE PARTICIPANT: So, just to clarify -  
14 first off, I agree with everything you just said. But  
15 to clarify, NE has the lead for the Department on  
16 this.

17 So, while Secretary may be talking and  
18 while PNNL may be reached out directly, all of those  
19 activities are flowing through the nuclear energy,  
20 like, crisis management crowd.

21 MALE PARTICIPANT: Okay. So, DOE NE has  
22 the overall lead for coordination of this effort then.

23 JAY TILDEN: Japanese government needs to  
24 figure out what it's doing. We don't know what  
25 options the Japanese government will take.

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1 But what we're suggesting, however, as at  
2 least to within our department, we have one set of  
3 folks who are worrying about this issue. Even if they  
4 are spread about, they are all kind of tied in, but  
5 (inaudible) Japan is reaching out all over to get  
6 great ideas about what to do.

7 So, I think most of the confusion we're  
8 seeing is really more on their side still.

9 MALE PARTICIPANT: Jay, and I'm not sure I  
10 would necessarily characterize it as confusion. I  
11 think what you said earlier is more to the point where  
12 they're really trying to gain an understanding of a  
13 lot of different options that would be available.

14 JAY TILDEN: Well stated. You're right.  
15 I'm corrected.

16 MALE PARTICIPANT: All right. Well, I  
17 mean, it sounds like we're not going to solve this  
18 right now (b)(5)

19 (b)(5) and (inaudible).

20 RON CHERRY: How does - this is Ron.

21 Not to beat this horse completely into the  
22 ground, but also to the point that Jay made about DOE  
23 NE having the lead, what I understand is two things  
24 have happened.

25 One is the Japanese government

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1 specifically asked for PNNL to come over.

2 MALE PARTICIPANT: Right.

3 RON CHERRY: And among the things that they  
4 wanted help from PNNL on was this issue of the  
5 contaminated water in the turbine buildings. Okay,  
6 that's one thing.

7 Secondly, in parallel - separate, but in  
8 parallel, there was an initiative which did include -  
9 involve Secretary Chu which resulted last week in a  
10 paper being provided both to Ambassador Roos here in  
11 Tokyo, and Ambassador Fujisaki in Washington.

12 This paper was titled "Department of  
13 Energy Capabilities in Support of Handling and Storage  
14 of Contaminated Water at the Fukushima Reactors."

15 That identified the issue, and it  
16 described equipment and capabilities that could be  
17 made available to address this issue. It was  
18 discussed at deputies level, by the way, before it was  
19 provided.

20 That paper identified under existing  
21 equipment capabilities, six stainless steel horizontal  
22 storage tanks and a high-activity trailer as being  
23 available.

24 Although I was not in the meeting, those  
25 words in this paper track exactly with the request

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1 that TEPCO made and which was relayed by Giulia  
2 Bisconti back to DOE headquarters late last week.

3 That request has not been conveyed by the  
4 Japanese government. So, I think where we are right  
5 now is in a preliminary stage where TEPCO has made a  
6 request based on information provided by the US  
7 government.

8 That request from TEPCO needs to be  
9 validated by the Japanese government. And if there is  
10 any further instructions that the Embassy needs to  
11 have in order to follow up with the Japanese  
12 government based on what we know right now about the  
13 TEPCO request, then that would be very helpful input  
14 for us to have here at post.

15 MALE PARTICIPANT: And as part of the work  
16 that the NRC has been doing with the Embassy, the  
17 process that we're putting in place should give us the  
18 positive control on this specific request from the  
19 government of Japan.

20 We should be able to provide -- once DOE  
21 continues to work, they should be able to hone in on  
22 the specific items that are needed that will pass  
23 through the government of Japan, come across as an  
24 official request, and then be populated and validated  
25 on the lists that we have.

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1 MALE PARTICIPANT: Yeah, right. And then I  
2 think just to maybe drive the final nail in, this  
3 seven o'clock meeting tonight would be an appropriate  
4 venue for us to ask the Japanese government whether  
5 they endorse this request that TEPCO made late last  
6 week for the six tanks and the high-activity trailer.

7 And if the - if we ask that question and  
8 the Japanese government says, yes, we would like you  
9 to do that, then have we thought through the mechanics  
10 for delivering that equipment?

11 Okay. I mean, it was indicated as being  
12 available, but there have been questions raised on  
13 this call about where would be the best place to get  
14 that.

15 MALE PARTICIPANT: All right.

16 MALE PARTICIPANT: So, I'm a little  
17 concerned that we not go too far too fast in asking  
18 the Japanese government to validate the request until  
19 we have a better idea of how we would go about  
20 fulfilling it.

21 FEMALE PARTICIPANT: And in this  
22 discussion, it seems like discussion on this item is  
23 quickly focusing in on a TEPCO request and I thought  
24 the item was more broadly stated.

25 I just want to caution that it's not clear

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1 to me that this item initially was on (inaudible)  
2 request for a certain number of tanks.

3 MALE PARTICIPANT: Well, understood. The  
4 items in the spreadsheet are on the broader issue, but  
5 I guess I do confess that I am particularly concerned  
6 about this one request that's out there now because  
7 it's potentially actionable. And so, we could ask the  
8 question to the Japanese government, do they endorse  
9 the TEPCO request.

10 On the other hand, the Japanese government  
11 may themselves take the initiative and say that TEPCO  
12 has made this request, we endorse it, how can we go  
13 forward.

14 So, you know, yes, it is a much broader  
15 issue. I absolutely agree with that. But where we  
16 are right now is that we do have a request from TEPCO  
17 that's out there. And, therefore, we need to have  
18 some guidance on how to deal with that.

19 MALE PARTICIPANT: Well, I think we've  
20 beaten this one to death.

21 MALE PARTICIPANT: My apologies, but I'm  
22 looking ahead to seven o'clock tonight.

23 MALE PARTICIPANT: Right. So, seven  
24 o'clock tonight find out if this is really a validated  
25 request or not.

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1 If we said six in a report that went out,  
2 I'm sure we have six somewhere.

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: Do they really, you  
5 know, (b)(5)

6 (b)(5)  
7  
8  
9

10 MALE PARTICIPANT: Right. And some of  
11 this, Jay, we may want to do some more of this  
12 offline, but I think that's really where it comes down  
13 is that if we made an offer and they say yes, and  
14 TEPCO says yes, and then the Japanese government  
15 endorses that and says yes, so then what's our next  
16 step?

17 JAY TILDEN: Well, we're already trying to  
18 work that.

19 MALE PARTICIPANT: Okay.

20 ALAN BLAMEY: Yeah, and this is Alan. Let  
21 me jump in. I think the next step based upon the  
22 process we've put in place is that once it's endorsed  
23 and we have the logistics people embedded with the  
24 Embassy, then we follow the process that we have laid  
25 out where they will start to go through and verify

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1 who's going to pay for what, look at the logistics to  
2 see if they're domestic or if we'll have to get them  
3 from another country.

4 I think at a high level the framework is  
5 there. We have a couple forms that will help shepherd  
6 the people through that process.

7 I think as I said before, we just need as  
8 the Embassy and the Economic Division gets staffed  
9 back up, we get the logistics people, we just need to  
10 start to move into that direction.

11 MALE PARTICIPANT: Fair enough.

12 ALAN BLAMEY: This is Alan. I apologize.  
13 I'm going to have to jump off here for a ten o'clock  
14 meeting that I will be attending here at the Embassy.

15 MALE PARTICIPANT: I'll have to do the  
16 same.

17 BRIAN SHARON: All right. I think we just  
18 actually covered the next two items on that page,  
19 because it's all part of the water management.

20 Let's see. On the next page, I'm on Page  
21 4, Item 33. It says, Japan asked NRC - or NRC  
22 expertise on temporary shielding options.

23 We have completed a gross analysis, but we  
24 don't have sufficient information to perform a  
25 detailed analysis for the shield (inaudible) building.

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1           So, I think Alan - well, Alan just dropped  
2 off, but he needs to discuss this sort of with Japan  
3 in terms of getting more detail of exactly what they  
4 want, where they want it, et cetera. And then we can  
5 go from there.

6           MALE PARTICIPANT: This item is lined out  
7 in my version. It looks like it was - it is to be  
8 deleted.

9           Is that not what is on your version?

10          BRIAN SHARON: No, mine doesn't show that.  
11 It shows it still is an open item. In other words,  
12 we can't close it out because we just don't know, you  
13 know, we've only done so much to - when they say, you  
14 know, well, we want some shielding, well, we need to  
15 know, you know, what kind of shielding, do they want  
16 lead blocks and where is it going to go and, you know,  
17 can the floor structurally take it or something if you  
18 put that much weight on it, et cetera. So, we need to  
19 get more information from the Japanese.

20          The next item was request the following:  
21 2100 units of rad survey meters, 2500 units personal  
22 dosimeters and 5100 units of iodine (inaudible).

23          Let's see. Rick, your name is on here for  
24 INPO.

25          RICK NIELSON: Yes, I've got that. We

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1 provided an advance copy of that list to Alan and Al  
2 Hochevar and there's still more to be done on that.  
3 That particular list had a number of line items, but  
4 there was some missing information.

5 The line items are still useful to let the  
6 Japanese know what's available, but what's missing is  
7 cost items for (inaudible) and for filter masks.

8 And it's really a pretty extensive list of  
9 items and that's just something that is being put  
10 together by the industry. We should have it in - my  
11 hope was this weekend, but we weren't able to do that.

12 So, it will likely be tomorrow.

13 BRIAN SHARON: Okay. Okay, then the next  
14 one is use of robotic devices for rubble removal. It  
15 says, DOE, DoD - DOE point of contact. And then it  
16 says, you know, based on discussions with the Embassy,  
17 the K-MAX helicopter is not needed. However, paren,  
18 NNSA, Jay Tilden, a whole range of remote heavy  
19 equipment will likely be needed.

20 This was an open item being discussed by  
21 the Remote Control Project Team.

22 MALE PARTICIPANT: Yeah, (inaudible) the  
23 waste treatment thing. The Japanese government is  
24 reaching out to industry (inaudible) and we're  
25 standing by to see exactly what they're going to need

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1 for, you know, if there's anything that we can provide  
2 especially regarding larger robotics.

3 My sense is that the commercial side  
4 really has this one down and I think they'll be able  
5 to figure that one out.

6 BRIAN SHARON: Okay. Let's see. The rest  
7 of the items on the list are all indicated as closed.

8 So, I don't think there's any real need unless  
9 somebody has a reason, you know, why we need to go  
10 through them.

11 I did want to bring up while you were on  
12 the phone, on April 1st there was a Deputy's meeting  
13 with the National Security Staff down at the White  
14 House Situation Room.

15 There were a number of agreements or  
16 conclusions from that. I'm wondering whether we need  
17 to somehow incorporate these.

18 (b)(5)  
19  
20  
21  
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1 (b)(5)  
2  
3  
4  
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6  
7

8 Alice, are you still there?

9 FEMALE PARTICIPANT: Yeah, I'm on. I don't  
10 have the readout of that meeting. I will specifically  
11 ask about this and get a more broad readout of that  
12 meeting.

13 BRIAN SHARON: Okay, if you could. Because  
14 I think, you know, it says DOE has the action on it.  
15 But I think somehow maybe getting a report during  
16 these - during the consortium calls would be good.

17 FEMALE PARTICIPANT: Okay.

18 BRIAN SHARON: And I think - I'm not sure  
19 if there was anything else here that would really  
20 affect what we're doing here. That was the only one  
21 that came to mind that I would like to maybe at least  
22 keep tabs on.

23 That was everything I had. Does anybody  
24 on the call have any items they want to bring up? Any  
25 new items or any old business or anything?

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1 RICK NIELSON: This is Rick Nielson. Just  
2 one item to follow up on. There was a question the  
3 other day about whether (inaudible) or not. She is  
4 actually in Japan right now. She arrived yesterday  
5 and she's working solely with Westinghouse.

6 So, that's a question out of curiosity, I  
7 think, but that's what the answer is.

8 BRIAN SHARON: Okay. Anything else?

9 (No response.)

10 BRIAN SHARON: If not, I want to thank  
11 everybody for participating. I think we actually got  
12 done in 59 minutes. So, we're doing better.

13 So, anyway, thank you. I guess the next  
14 call is tomorrow night.

15 (No response.)

16 BRIAN SHARON: Okay. I'm presuming it is  
17 since nobody seems to object to it. So, we'll be  
18 eight o'clock tomorrow night then. Okay, have a good  
19 evening.

20  
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3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

5 + + + + +

6 MONDAY

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(CONFERENCE CALL INITIATED)

OPERATOR: There are currently 16 participants in your conference. The following people are in the conference.

ROM PETERSON (phonetic): Rom (phonetic) Peterson, Region III Duty Officer.

SCOTT PERNELL (phonetic): Scott Pernell (phonetic), Headquarters, Public Affairs.

RON EPSON (phonetic): Ron Epson (phonetic), Chairman's Office.

HALO KEYE (phonetic): Halo Keye, (phonetic) Region IV.

RICH LOFFER (phonetic): Rich Loffer, (phonetic) SECI (phonetic)

MALE PARTICIPANT: Headquarters Operations Officer.

RAY POWELL (phonetic): Ray Powell (phonetic), Region I.

LINDA HOWELL (phonetic): Linda Howell (phonetic), Region IV.

PAT CASSELMAN (phonetic): Pat Casselman (phonetic), Commissioner Sineke's (phonetic) Office.

MARVIN SYKES (phonetic): Marvin Sykes (phonetic), Region II, Duty Officer.

MIKE FENOVICH (phonetic): Mike Fenovich

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1 (phonetic), Commissioner Ostendorf's Office.

2 HAROLD JOHNSON (phonetic): Harold Johnson  
3 (phonetic), NRC Intelligence.

4 CATHY HANEY (phonetic): Cathy Haney  
5 (phonetic), NMSS.

6 BILL ORDERS (phonetic): Bill Orders  
7 (phonetic), Commissioner Ragwood's (phonetic) Office.

8 MIKE SNODDERLY (phonetic): Mike Snodderly  
9 (phonetic), Commissioner Postolokas's (phonetic)  
10 Office.

11 OPERATOR: Roster playback is complete.

12 JIM WIGGINS: All right. Good morning.  
13 Jim Wiggins at the BT Desk. I've got Mark Staggart  
14 (phonetic) and Cindy Jones and John Adams with me, and  
15 we may get joined by Bryan Holder (phonetic). He's  
16 probably working something.

17 Just a quick summary here for this  
18 morning. The technical aspects are as described in  
19 the updates that we've been sending. You should  
20 extract from that that the focus, a larger focus  
21 appears to be on Unit 1.

22 There are some signs of containment  
23 pressure dropping, which would suggest some support  
24 for TEPCO's contention that there's some leakage in  
25 the containment beyond -- well, some significantly, 10

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1 to 30 percent per day is what number is being batted  
2 around.

3 But the current priorities for the site  
4 and the team here at Headquarters is to resolve with  
5 TEPCO questions with regard to the hydrogen and oxygen  
6 concentration in the containment, Unit 1. That sort  
7 of connects to an ongoing activity that RST is  
8 working, which is occurring, and come up with a paper  
9 that describes some recommendations for more expedited  
10 ways of executing the sill intent (phonetic) procedure  
11 that TEPCO has underway in Unit 1, and also a way to  
12 expedite filling the containment which we still think  
13 is a priority, but the Japanese are not exactly where  
14 we are on that.

15 The team seems to be pretty well settled  
16 in. There's not a lot of discussions going on.  
17 Actually, it's quite -- quite dead for the last time --  
18 - since the last time I had day watch in here.

19 The response team recently, like over the  
20 last four or five days have been augmented by a couple  
21 DOE-sponsored contractors from Sandia (phonetic).  
22 These folks are severe accident types that have done  
23 work for us in the past on Melcor (phonetic) and max  
24 kind of things which are the severe accident stuff  
25 that Research runs.

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1           They have -- they showed up. Chuck was  
2           able to bring them into the team and get roles and  
3           responsibilities worked out, and now they appear to be  
4           functioning as part of Chuck's team.

5           They were originally more or less arrived,  
6           and Chuck had to try to get that under control, which  
7           looks like he was successful in doing it.

8           And I think that's probably it, beyond  
9           what's already given to go. One more thing, we're  
10          expecting an individual from CDC to arrive today to  
11          get embedded into the liaison teams to -- and then  
12          we'll -- the liaison team leader, John Adams, one of  
13          the individual arrives will try to work out roles and  
14          responsibilities to that individual's expectations  
15          are, why he or she is going to be here.

16          And that's -- that's it. Open for  
17          questions.

18          PAT CASSELMAN: Jim, this is Pat  
19          Casselman. What is CDC's stake in this? In other  
20          words, what's their interest? Is it overall radiation  
21          health effects? Is it potassium iodide, or anything  
22          like that? Do you have any idea?

23          JIM WIGGINS: Well, that's why John is  
24          going to talk about roles and responsibilities. We  
25          need to figure out why the individual thinks he or she

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1 is actually here.

2 MALE PARTICIPANT: To add a little bit to  
3 that. We received a call just about 20 minutes ago  
4 from the individual. He reported he was travelling  
5 today and arrive here tomorrow.

6 And we asked him directly what his role  
7 would be once he was here. The individual told us  
8 that he did not know and was going to try to work that  
9 out with his management before arrival, so --

10 JIM WIGGINS: So, Pat, I guess you could  
11 say it's somewhat fluid.

12 MALE PARTICIPANT: Okay. Okay. Yes,  
13 because it's not readily apparent why we would need a  
14 CDC person here. That's all I was -- you know, that's  
15 why --

16 JIM WIGGINS: Well, to make it very clear,  
17 we don't have the need for it. Apparently someone in  
18 CDC has a perceived need to be involved. So, it's  
19 probably better in the end to get them here than to  
20 let them freelance..

21 That was an issue that Chuck had to deal  
22 with. There's two examples of that. I won't go into  
23 events (phonetic) that occurred last week. Chuck had  
24 to deal with one and the ambassador dealt with the  
25 other, and these were entities that sort of showed up

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1 with, we'll just say "unexpectedly."

2 So, I'd say that it's probably better that  
3 we kind of bring them in the tent here than have them  
4 try to operate independently.

5 MALE PARTICIPANT: Oh, yes.

6 MALE PARTICIPANT: Yes. I totally agree  
7 with that. I think that's a good idea.

8 JIM WIGGINS: Yes. And we're still as  
9 (inaudible) of that, but we're still hoping that  
10 another government agency will step up to take the  
11 role that we are currently doing, which is probably  
12 not our -- you know, we're -- we're learning it's  
13 becoming a (indiscernible, possibly "strong suit") for  
14 us, this overall support liaison and logistics piece.

15 We are the centerpiece for the equipment  
16 and, you know, wants and needs for the Japanese  
17 government. We've been maintaining that accommodation  
18 of liaison team here and the site team, which we're --  
19 the site team originally started with it.

20 We had to step in to help them because it  
21 was getting beyond what they could do and still do  
22 their primary job. So we're hoping that that gets  
23 settled and we can transition it back out to the site  
24 team where it was -- where it was originally intended  
25 to be.

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1           That's the matrices that come out  
2 periodically that have these lists of things on them.

3       We're -- you know, then the general coordination of  
4 the overall response effort. So we see ourselves in a  
5 position of eventually trying to back down out of this  
6 thing, or at least reduce our footprint.

7           I think there's -- there's still  
8 continuing interest on the Japan side, not the  
9 government. Our -- it's our Government. Mostly the  
10 military, the Department of State, about reentry of  
11 individuals into at least the Tokyo area.

12           So we're to stand by to work with the  
13 White House, DOE and EPA on any of those types of  
14 decisions, the protocols that had been -- have been  
15 established the assistance (phonetic) the last couple  
16 of weeks is all that dose assessment-related stuff is  
17 really DOE and EPA have the lead, actually brokered  
18 through the national security staff.

19           So OSTP is on it, too. So we -- we  
20 coordinate our activities with them, and any questions  
21 we get which we were, at least last week, getting a  
22 number of questions from entities in the Department of  
23 Defense that ran from the four-star admiral in the  
24 Pacific Command, down to gunnery sergeants in  
25 platoons, wanting to know what their people -- what to

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1 do for their people.

2 And we pretty much are directing all that  
3 through this large entity in the sky down at the White  
4 House.

5 Anything else?

6 PAT CASSELMAN: Yes. This is Pat  
7 Casselman again. (b)(5)

8 (b)(5)

9  
10  
11  
12  
13  
14 JIM WIGGINS: Haven't heard. Haven't  
15 heard.

16 PAT CASSELMAN: Okay.

17 JIM WIGGINS: Our posture is to stand by  
18 to support anything that the -- any decision the White  
19 House makes in terms of what's the next run.

20 I'm getting a reverberation. I don't know  
21 if that's our side or if it's affecting you guys.

22 PAT CASSELMAN: Okay. And then the last  
23 thing is, if there's -- the last question I have is:  
24 Do we have any sense in how -- whether or not there's  
25 been any progress in terms of correlating actual

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1 contamination and radiation measurements to the models  
2 that have been run to refine those models and so  
3 forth?

4 JIM WIGGINS: I think the models, at least  
5 wise the source terms are fairly -- are somewhere  
6 between fairly and very conservative.

7 And so there has been some limited field  
8 data that would sort of suggest the premise that the  
9 source term is, in fact service (phonetic).

10 But the field data was one of the things  
11 that the PFT here in Headquarters said put in a set of  
12 criteria for relaxing the protective action.

13 We were thinking that we would want to --  
14 we would need to have field data so we wouldn't be  
15 just altering the protective action based on different  
16 analytics.

17 You know, it's been the source term that  
18 gets whatever answer you wanted, if you want to go  
19 that way, but are not suggesting anyone does. But we  
20 did the (phonetic) and there's no real substitute for  
21 having good source -- good field data, and that's  
22 still the current direction we're operating under.

23 PAT CASSELMAN: Okay. Thank you.

24 BILL ORDERS: Hey, Jim. It's Bill Orders.  
25 How are you?

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1 JIM WIGGINS: All right.

2 BILL ORDERS: Talking about field data,  
3 we're getting inputs from DOE (b) (b)  
4 these appear to indicate that there's nothing past 25  
5 miles. Are we still standing by our 50?

6 JIM WIGGINS: Haven't changed it. We're  
7 looking at it here, but we haven't changed it.  
8 Haven't been asked to (indiscernible, possibly "lower  
9 it") by the site teams, but we're, right here at  
10 Headquarters, scratching our heads, looking at, you  
11 know, where do we stand with regard to the relaxation  
12 criteria.

13 BILL ORDERS: Well, to me, it looks like  
14 you have at least one data point that's -- if it's  
15 ground information.

16 One more question, and that is --

17 JIM WIGGINS: Hold on. The other element  
18 to this relaxation criteria is trying to get some type  
19 of quasistable situation (indiscernible, possibly "at  
20 the facility").

21 You know, credibility, you've got to --  
22 you've got to admit the worst thing we could do is  
23 relax the protective action and then only have to  
24 reinstitute it again if there's something untoward  
25 that happens at the facility.

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1           So, yes, we're kind of pressing the  
2           (indiscernible, possibly "the low scores"). RST is  
3           trying to press with the -- our team in Japan, trying  
4           to work with the Japanese to get some modicum of  
5           stability out there.

6           And I think that's why this Unit 1 issue  
7           becomes pretty important because as long as that's in  
8           the balance, I don't know, you know, how easy it will  
9           be for us to say, yes, the thing is stable.

10          Anything else?

11          PAT CASSELMAN: I've got one more thing.

12          I think it was Saturday that (b)(5)

13          (b)(5)

16          (b)(5)

Where did that come from?

17          JIM WIGGINS: Do you have a --

18          CINDY HANEY: This is Cindy (inaudible).

19          One of the issues that I understand occurred late last  
20          week was that (b)(5)

21          (b)(5)

22  
23  
24          Once they got that information from NRC  
25          via the Melcor (phonetic) run, the (b)(5)

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(b)(5)

I think they believe that the previous first-time (phonetic) runs that NRC had provided earlier (indiscernible, possibly "in the last operate") is one, two, three and spent fuel pool 4 were adequate and it was not needed.

BILL ORDERS: There seems be a continuing interest on the other -- in Japan, our folks, the US Government, the posts, the ambassador, you know, State Department, Department of Defense, they realize that some -- something in the first part of April is a magic date for them.

Some have speculated that that's when kids go back to school, the 15th of April. I've seen dates like the 6th of April is when the ambassador wanted an answer in terms of some sort of a dose projection answer or protective action answer.

You know, basically that process worked the way it was supposed to. The ambassador asked, and the White House decided. You know, we do our part. We run the Melcor runs, give them the source terms for whatever he specified.

MALE PARTICIPANT: Bill, (b)(5)

(b)(5)

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(b)(5)

JIM WIGGINS: Okay. Anything else?

MIKE SNODDERLY: Jim, this is Mike Snodderly. Just one question. For Unit 1, do we have any idea what the hydrogen concentration is inside containment?

JIM WIGGINS: It's debatable at this point. We -- we have -- the Japanese -- well, I don't know the exact numbers.

Bryan, do you know?

BRYAN HOLDER: Yes. Bryan Holder --

JIM WIGGINS: There are two different opinions, the TEPCO opinion, and then the -- I guess the sort of US Government opinion.

BRYAN HOLDER: Yes. You know, we've given them a hydrogen venting paper that has a calculation by GE, (b)(4)

(b)(4)

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1 (b)(4)

2           Hopefully, you know, they have vented.  
3       You know, we've gone down from 25 pounds to 7.8 pounds  
4       now and have had no reports of any deflagration  
5       (phonetic) as that self-venting, by itself. That's  
6       good news, and that may lend credence to lower  
7       numbers.

8           I don't know -- I came in late to this  
9       call, but Jim might have mentioned that there's some  
10      thought -- on the weekend, we told you they might not  
11      inert with nitrogen till April 8th, 9th.

12           At last night's phone call with -- the  
13      site team said it may be able to start today on 4-4.  
14      So, that will help if they start pumping nitrogen in.

15           JIM WIGGINS:    The thing to remember,  
16      thought, Mike, is, it's not just nitrogen. It's the  
17      oxygen concentration also. The kind of thumbnails  
18      about four percent and eight percent for flammability  
19      and explosiveness is tied up like a standard, you  
20      know, oxygen atmosphere, you know, air, like you  
21      breathe.

22           You start starving it for oxygen, then you  
23      have to go consult a -- consult a curve that looks  
24      like somebody's nose, if you've ever seen it. A long  
25      proboscis curve. So, you know, that's odd.

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1           So that's why the (indiscernible, possibly  
2 "base") that's going on between us and the Japanese  
3 have to do with not just nitrogen, but oxygen, too.

4           MIKE SNODDERLY: I just didn't know if --  
5 if -- did they grab samples or if they've gotten  
6 instrumentation back and what kind of levels. So I  
7 guess what I'm hearing from you is we don't know,  
8 because it could be anywhere between 10 and 35  
9 percent.

10          JIM WIGGINS: Plus I don't know how good  
11 the instruments would be, even if they got them back.

12          They may have -- did you see reports about electrical  
13 power coming in, and it's got instrument power back in  
14 a number of the units but, you know, some of these  
15 units went through some pretty extreme circumstances.

16          God knows what shape those instruments are in.

17          MALE PARTICIPANT: And we've asked --  
18 Bryan, again, we've asked about grab samples, if  
19 there's any sampling capability. They have that  
20 question to them, the site team.

21          We've heard no indication of ability to do  
22 that.

23          MALE PARTICIPANT: And there are some  
24 pretty severe rad levels that they would have to --  
25 have to put up with in order to do some of this stuff.

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1 And, you know, for instance, this may be a  
2 factoid, an anecdote I got on turnover from Mike  
3 Johnson. He (indiscernible, possibly "had to admit")  
4 that when you get into this debate about venting, one  
5 of the things you learn is that the vent valves, that  
6 are already high -- very high-radiation areas, and if  
7 you open it, it might get worse.

8 So they're thinking -- there's one concept  
9 that if you open the vent manually, you may never be  
10 able to close it again.

11 MALE PARTICIPANT: Yes.

12 JIM WIGGINS: So, you know, whether they  
13 can get some electric power, some remote operability  
14 to it is -- I have not earthly clue at this point.  
15 But, you know, there's a lot of different overlapping  
16 considerations in this.

17 But Bryan might have the best solution  
18 overall, just, you know, let it leak. If it hasn't  
19 blown up yet, that maybe it won't. But, you know, the  
20 other thing they could help with is to try to  
21 ventilate the place where the leakage is going to.

22 MALE PARTICIPANT: Yes.

23 JIM WIGGINS: Which is, I guess, in these  
24 facilities, the reactor building. If they can get  
25 some --

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1 MALE PARTICIPANT: Get (inaudible).

2 JIM WIGGINS: Yes, but Unit 1 has got a --  
3 is not very structurally-sound. There's a lot of  
4 ventilation in there, a nice sea breeze, I'm sure.

5 But, you know, maybe that's the best way  
6 to handle it.

7 MALE PARTICIPANT: But we are still  
8 focusing on putting water in the drywell from a  
9 concern that kind of goes back to, you know, if they  
10 had presume that they had significant fuel failures,  
11 some core debris, whatever, down in the lower vessel  
12 head, and then you use all this seawater injection and  
13 boil off the seawater and precipitated out the salt,  
14 then I believe -- well, never mind. I won't give you  
15 my Martha Stewart theory on reactor vessels.

16 But that salt down there, as it -- it's  
17 leaked enough salt to block -- block circulation. And  
18 what's the state of the salt may be interesting. I --  
19 this is my Martha Stewart thing. It comes from a  
20 cooking thing.

21 If you have something that's hot and moist  
22 underneath a salt dome, the salt crusts up. That's  
23 how you do salt baking, like a finish or something.

24 I've been talking about that for two weeks  
25 now. I can't get the reactor safety team to take me

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1 up on it, though.

2 MALE PARTICIPANT: We agree with you. And  
3 not only that, but the saltwater is starting now to  
4 work on a higher corrosion rate.

5 JIM WIGGINS: Yes.

6 MALE PARTICIPANT: We have to look at that  
7 reactor safety, too. It's a --

8 JIM WIGGINS: (b)(5)

9 (b)(5)

10 (b)(5)

11 Those CRD's are just like they have them  
12 here, I'm sure.

13 MALE PARTICIPANT: Right.

14 JIM WIGGINS: (b)(5)

15 (b)(5)

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(b)(5)

(b)(5)

Why are they still at 50 miles? Well, because you've got to get field data and you've got to get stable conditions. What's the stable -- what's stable? Well, we're trying to work on a definition of that now, on what's stable, but that drives you to Unit 1, at leastwise from a reactor point of view.

The 3 and 4 spent fuel pools, I guess the only debate there is where the water is. How much water is actually in the pool, whether the pools are structurally-sound, you know, whether they are going

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1 to have to, for the long run, continue that water, let  
2 it steam a bit.

3 Okay. That's probably too much for this  
4 discussion.

5 MARVIN SYKES: Now, Jim, it was Marvin  
6 Sykes. Can I do a preview from an (indiscernible,  
7 possibly "F-I") coolant interaction standpoint? One  
8 of the nice things about the (indiscernible, possibly  
9 "BWI-izers") because there is so much going on down in  
10 the lower vessel that is, I think, tends to break up  
11 (inaudible) and limit the amount of melt fuel -- the  
12 amount of fuel-coolant interaction.

13 But, anyway, good luck on today and it  
14 sounds like you guys are heading down the right path  
15 and asking the right questions. I really appreciate  
16 it.

17 JIM WIGGINS: Yes. One thing that seems  
18 to be working is, you have this somewhat of an  
19 alliance that doesn't usually exist because we're  
20 usually a regulator.

21 You have us, and you have the US  
22 Government side of the world with us and DOE and Naval  
23 Reactors, and now we're -- we're in communication with  
24 GE -- Hatachi (phonetic), I think it is, you know, so  
25 we have a vendor for the real materials.

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1 And we're all coming out, we're all  
2 analyzing the same stuff, coming up with the same  
3 answer. You know, that's a pretty strong presentation  
4 that Chuck and his folks can make to the Japanese  
5 government and to TEPCO.

6 MALE PARTICIPANT: Yes.

7 JIM WIGGINS: Okay. I think -- I think  
8 you've pretty much got everything I had.

9 MALE PARTICIPANT: Jim, I have one more  
10 question if you don't mind.

11 JIM WIGGINS: Yes.

12 MALE PARTICIPANT: The -- you're having --  
13 or the ops center is having an eight o'clock p.m.  
14 phone call with the folks at consortium.

15 Is there anything coming out of those  
16 phone calls in terms of a status sheet or a matrix  
17 that could be shared?

18 JIM WIGGINS: If there's a matrix we could  
19 -- we'll talk to you. Who -- I guess we'll get it to  
20 Bill and Mike and (indiscernible, possibly "one day  
21 out").

22 If you want it, send us an email and we'll  
23 send it back to you. How about that?

24 MALE PARTICIPANT: I'll send you an email.

25 JIM WIGGINS: Okay.

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1 MALE PARTICIPANT: Thank you.

2 JIM WIGGINS: All right, folks. Thanks a  
3 lot. We'll check back with you tomorrow.

4 MALE PARTICIPANT: Thank you.

5 JIM WIGGINS: All right.

6 MALE PARTICIPANT: Yes. Thank you very  
7 much.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chuck Pasco (phonetic),  
3 come to the bridge.

4 MALE PARTICIPANT: Pasco is on.

5 JIM WILLIAMS: (Jim) Hey, Chuck, how are  
6 you?

7 CHUCK PASCO: Hey, James (phonetic).

8 JIM WILLIAMS: (James.) You're getting  
9 pretty good. We can recognize each other's voices  
10 (inaudible).

11 JIM WILLIAMS: It's like going back to  
12 9/11 where we used to sit in the ops centers in the  
13 regions and play "Who is that (indiscernible, possibly  
14 "games") when we're looking at the people down here.

15 CHUCK PASCO: The tough ones I have is Jim  
16 Dyer (phonetic) and Mike Weber. Those two I have a  
17 hard time.

18 JIM WILLIAMS: Yes. I guess you didn't  
19 work with or for them too long.

20 Okay. What can we do for you?

21 CHUCK PASCO: I think there's a Chairman  
22 call coming up, isn't there?

23 JIM WILLIAMS: There were --

24 JIM WILLIAMS: They were early.

25 JIM WILLIAMS: You're an hour -- you're

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1 somewhere between an hour and an hour and a half  
2 early.

3 CHUCK PASCO: 12:30, huh?

4 JIM WILLIAMS: Well, it's 11:30 our time.  
5 I don't know what the hell it is over in Japan.

6 CHUCK PASCO: Okay. I got it wrong. It's  
7 12 -- it's supposed to be 12:30 my time.

8 JIM WILLIAMS: Yes. I don't know why you  
9 want to stay up for that.

10 CHUCK PASCO: Well, I have a couple of  
11 things to tell them, so I'll -- I've got work to do  
12 and so I'll stay up. I'll call back in -- I had it in  
13 my head it was -- I guess I was thinking of 11:30  
14 Eastern. It's 12:30 my time.

15 JIM WILLIAMS: Yes. It's 13 hours.

16 CHUCK PASCO: It's close enough now and I  
17 actually have some work to do, so I'm going to go  
18 ahead and finish my work. That will give me time to  
19 do that.

20 JIM WILLIAMS: All right. If he calls --  
21 he's in Vienna. He's going to call when he gets a  
22 chance.

23 CHUCK PASCO: Yes.

24 JIM WILLIAMS: I should presume we have  
25 your number where we can find out.

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1 CHUCK PASCO: Yes.

2 JIM WILLIAMS: And we'll just try to loop  
3 you in when he calls if you don't -- if you're not  
4 guessing the right time.

5 CHUCK PASCO: Yes. You'd think by now I'd  
6 be good at that, but I had -- just had the wrong time.  
7 That was it. I understand the 13 hours. I just had  
8 the wrong time.

9 JIM WILLIAMS: All right.

10 CHUCK PASCO: So I'll call in an hour or  
11 so.

12 JIM WILLIAMS: All right. All right,  
13 Chuck.

14 CHUCK PASCO: All right.

15 JIM WILLIAMS: Anything we can do for you  
16 while we've got you?

17 CHUCK PASCO: No. No, we're good. We've  
18 got -- just got done with the cabinet meeting here a  
19 little while ago and that was -- you know, it's always  
20 interesting, but they only -- the -- and I'll tell  
21 him, the only major thing is I -- for some reason they  
22 decided that they actually do need a strategic  
23 approach to this and a strategic plan, so that was  
24 what their hot thing tonight was.

25 And we need to -- they need to come up

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1 with a plan on how to approach this, whatever it is,  
2 decommissioning, recovery, whatever.

3 JIM WILLIAMS: Yes.

4 CHUCK PASCO: (b)(5)

5 (b)(5)

6  
7 JIM WILLIAMS: (b)(5)

8 CHUCK PASCO: (b)(6)

9 (b)(5)

10 JIM WILLIAMS: Oh. Yes.

11 CHUCK PASCO: You know, Neal -- Jack Welch  
12 and, you know, they met with him, I think, yesterday,  
13 and then today they've decided they need a strategic  
14 approach to this, so --

15 JIM WILLIAMS: Oh. They met with Jack  
16 Welch or -- not the --

17 CHUCK PASCO: No.

18 JIM WILLIAMS: -- (b)(6)

19 (phonetic), or whatever his name is?

20 CHUCK PASCO: Yes. (b)(6) Yes, they met  
21 with him. So --

22 JIM WILLIAMS: Okay.

23 CHUCK PASCO: -- now tonight they want a  
24 strategic plan, so -- and the other thing, you know,  
25 I'll tell the Chairman is, they dumped a bunch of

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1 water out to the ocean while we were having that  
2 meeting.

3 JIM WILLIAMS: I understood -- do you know  
4 where the source was, though, Chuck? I --

5 CHUCK PASCO: They dumped --

6 JIM WILLIAMS: I've heard they --

7 CHUCK PASCO: -- some rad waste and then a  
8 pit -- I guess it was like a sluice trench somewhere  
9 around Unit 4 to 5, somewhere in that area.

10 JIM WILLIAMS: Okay. That's interesting.  
11 We had heard somewhat of a factoid that they might be  
12 dumping this (indiscernible, possibly "cottage bay")  
13 storage tank for tankage space. You know, but maybe  
14 that's --

15 CHUCK PASCO: Yes. And I wouldn't doubt  
16 if they did that because, you know, they dumped rad  
17 waste.

18 JIM WILLIAMS: Yes. The CAC would be  
19 clean relative to what they're dealing with, you know,  
20 so --

21 CHUCK PASCO: Right. Or they -- they  
22 dumped somewhat radioactive water out to put in  
23 highly-radioactive water into the --

24 JIM WILLIAMS: Yes.

25 CHUCK PASCO: -- into rad waste.

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1 JIM WILLIAMS: Into the rad waste area?

2 CHUCK PASCO: Yes. Yes.

3 JIM WILLIAMS: All right. Well, okay.  
4 But, yes, you know, you say "strategic plan," it's got  
5 to be more on the tactical side of strategic. It's  
6 like what direction are we going in, and what  
7 principles do we want to use in this.

8 CHUCK PASCO: Right.

9 JIM WILLIAMS: You know, you start with  
10 this -- like just the move you just said, right. By  
11 putting highly-radioactive water in these rad waste  
12 tanks, wherever the hell they are, is that going to  
13 complicate their actions to mitigate because the rad  
14 fields that they're going to be developing that's  
15 aren't as bad unless they put the stuff in it. You  
16 know what I'm saying?

17 CHUCK PASCO: Yes. What we've been  
18 incurring -- well, we haven't been incurring anything  
19 on this, but what we've been thinking is, the larger  
20 you make the footprint of bad stuff, the worse things  
21 get.

22 JIM WILLIAMS: Yes.

23 CHUCK PASCO: You know. If you take it  
24 and pump it out into some field somewhere, they want  
25 these big tanks -- they're also -- you know, they're

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1 floating this barge up, an enormous barge up in the  
2 ocean that's from some amusement park or something, a  
3 platform.

4 And they are going to put tanks on it.

5 JIM WILLIAMS: Okay.

6 CHUCK PASCO: And have these floating  
7 tanks on this platform off the coast.

8 JIM WILLIAMS: Okay. Hopefully it floats.

9 CHUCK PASCO: And they're going to --

10 JIM WILLIAMS: So a storm's coming.

11 CHUCK PASCO: Yes. I mean, so you've got  
12 typhoons coming, right --

13 JIM WILLIAMS: Yes.

14 CHUCK PASCO: -- and this big --  
15 apparently they're floating this big platform up the  
16 ocean and they are going to put these big tanks on it  
17 and store that stuff out there floating around in the  
18 ocean.

19 JIM WILLIAMS: Yes. I kind of thought of  
20 that, but I kind of was thinking about that last week,  
21 that they should be, you know, saying -- they should  
22 be going out there trying to grab up a whole bunch of  
23 barges that they'd wrecked.

24 CHUCK PASCO: Yes.

25 JIM WILLIAMS: You know, really, they just

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1 (indiscernible, possibly "once and done things"), they  
2 just pop them full of stuff and then figure out what  
3 to do with them later, you know.

4 CHUCK PASCO: Yes. There are some  
5 problems with that, obviously. You know, the London  
6 Convention, we were trying to figure out today whether  
7 -- you know, that -- I don't think that applies to  
8 national waters, but it certainly applies to  
9 international water.

10 We don't know, you know, if there's a  
11 treaty that applies to -- to national waters or not.

12 JIM WILLIAMS: Well, that would be what,  
13 to prevent you from just --

14 CHUCK PASCO: From dumping. Yes. Prevent  
15 them from sinking it. Now, that London Convention has  
16 an emergency clause in it --

17 JIM WILLIAMS: Yes.

18 CHUCK PASCO: -- that if you can apply  
19 for, you know, a dump permit basically if you have  
20 some kind of emergency.

21 So we were talking about whether they were  
22 going to apply for a -- you know, a waiver of the  
23 treaty.

24 JIM WILLIAMS: Yes. I would imagine if  
25 they could pull some barges up, take them out to a

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1 trench somewhere and, you know, get rid of them there,  
2 but --

3 CHUCK PASCO: Well, they've already talked  
4 about the two barges we sent up there. Now they're  
5 talking about using those. You know, forget the  
6 freshwater.

7 JIM WILLIAMS: Yes.

8 CHUCK PASCO: We're going to pump those  
9 two barges full of --

10 JIM WILLIAMS: Yes.

11 CHUCK PASCO: You know, they're all  
12 single-shell. They are old barges. They are single-  
13 shell.

14 JIM WILLIAMS: Yes.

15 CHUCK PASCO: You know. But I don't know.

16 JIM WILLIAMS: (indiscernible, possibly  
17 "Mistakenly") --

18 CHUCK PASCO: Yes. The more -- the bigger  
19 you make your footprint, probably the worse you're  
20 going to be.

21 JIM WILLIAMS: Well, they've got to make  
22 the trade-off, though, don't they? They've got to --  
23 they've got to re -- they've got to have a manageable  
24 set of rad levels in areas interior to the site so  
25 they can -- otherwise --

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1 CHUCK PASCO: Right.

2 JIM WILLIAMS: -- you're never going to  
3 get anything that looks -- that's going to look stable  
4 to everybody.

5 CHUCK PASCO: Right. That's right.

6 JIM WILLIAMS: They're going to have to --

7 CHUCK PASCO: And there's been some talk  
8 about using the drywells on the other units as a  
9 storage facility. You know, pumping in the Unit 4  
10 drywell and Unit 5 and 6 because those units probably  
11 -- those units are never going to be restarted,  
12 either.

13 JIM WILLIAMS: Five and six, you don't  
14 think?

15 CHUCK PASCO: Well, there's a lot of  
16 people speculating they won't be -- they won't ever be  
17 restarted. Tsunami, you know, you're going to have to  
18 protect them against tsunami. They are at the same  
19 site. All that stuff, so, you know, there's been some  
20 talk about, you know, using the drywells --

21 JIM WILLIAMS: Yes.

22 CHUCK PASCO: -- for storage tanks.

23

24 JIM WILLIAMS: Wow. All right.

25 CHUCK PASCO: That's all -- that's all

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1 kind of their problem, not ours.

2 JIM WILLIAMS: Yes. It would be nice if  
3 we can make it even more so by getting the Department  
4 of State or someone to take a stronger role so you  
5 guys can sort of extricate.

6 CHUCK PASCO: Well, we're working on that  
7 slowly.

8 JIM WILLIAMS: How long are you good for,  
9 or did somebody finally admit you're there for the  
10 duration?

11 CHUCK PASCO: The last I heard, several  
12 weeks is the last I heard.

13 JIM WILLIAMS: Yes. I think -- I think  
14 those people are -- well, never mind. I don't want to  
15 bust your bubble. But hopefully you found -- you're  
16 surviving out there all right?

17 CHUCK PASCO: Yes. I'm doing fine.

18 JIM WILLIAMS: You've got (inaudible)  
19 logistics, travel, that kind of stuff, just -- you cut  
20 your travel, too? You --

21 CHUCK PASCO: No. AID is doing  
22 everybody's travel.

23 JIM WILLIAMS: Okay. So they're --  
24 they're clearing your vouchers and stuff? You don't  
25 want to --

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1 CHUCK PASCO: Yes.

2 JIM WILLIAMS: You don't want to have a  
3 \$30,000 travel bill because --

4 CHUCK PASCO: Yes.

5 JIM WILLIAMS: -- those mean and rotten  
6 guys on the credit card company is not going to be  
7 sitting there, waiting for you to come back.

8 CHUCK PASCO: Yes. They -- they pay for  
9 the hotel, straight-up. That's a contract. We don't  
10 pay for that. So you really don't have anything --  
11 and then so, you know, that's not a problem.

12 And my Government credit card got cut off  
13 while I was over here. Somebody's using the number.

14 JIM WILLIAMS: Wonderful.

15 CHUCK PASCO: Yes.

16 JIM WILLIAMS: Is there anything that I  
17 can help you with that?

18 CHUCK PASCO: No. I already contacted the  
19 region and they did all the things that you're  
20 supposed to do.

21 JIM WILLIAMS: Okay. Is somebody in the  
22 process of getting your replacement or do you have  
23 something to use?

24 CHUCK PASCO: I don't think so. I'm just  
25 using one of my own or something until I get back and

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1 get it straightened out.

2 JIM WILLIAMS: Hum.

3 CHUCK PASCO: They also said that they'd  
4 put it on hold. They didn't actually cancel it.

5 JIM WILLIAMS: Yes.

6 CHUCK PASCO: But if I -- if I wanted to  
7 use it I just call them up and they unlock it, let me  
8 use it, and then they lock it back down again.

9 JIM WILLIAMS: All right. You know what,  
10 we'll call Region II and see what their thinking is.  
11 Okay?

12 CHUCK PASCO: Yes.

13 JIM WILLIAMS: All right. We'll see what  
14 they --

15 CHUCK PASCO: All right, Jim. I'll give  
16 you a call back soon.

17 JIM WILLIAMS: All right, Chuck. Thanks.  
18 Bye-bye.

19 CHUCK PASCO: Thank you, sir. Bye.  
20  
21  
22  
23  
24  
25

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(CONFERENCE CALL INITIATED)

KIM ANDERSON (phonetic): NRC, Kim Anderson (phonetic).

MARTY TAYLOR (phonetic): Hey, Kim, this is Mark Staggart (phonetic). I'm in the operations center.

KIM ANDERSON: Yes.

MARK STAGGART: Let me say again. Let me quote it line (phonetic). I understand from the turnover that I got from Brian McDermott (phonetic) that somebody in the EDO Office -- he thought it was you -- were working on some way to deal with some of these tasks that we have that we are getting in the operations center that should be -- being farmed out to the various offices -- program offices.

KIM ANDERSON: Uh-huh.

MARK STAGGART: I think the -- I think the process is supposed to be, I guess, once they get referred to another program office there would be a ticket generated from you guys.

KIM ANDERSON: Yes. I asked him to -- if he would forward those request to me.

MARK STAGGART: Have you gotten any of them?

KIM ANDERSON: Well, he sent me two on

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1 Friday. Someone sent me two on Friday. Well, I  
2 shouldn't say "he." I got them from, you know, one of  
3 those generics operations center --

4 MARK STAGGART: Yes. Yes.

5 KIM ANDERSON: I don't know who did it,  
6 but I got two of them from ETO-5.

7 MARK STAGGART: Yes.

8 KIM ANDERSON: And I know the two numbers.  
9 I can give you the two numbers.

10 MARK STAGGART: Okay..

11 KIM ANDERSON: But it's not clear to me  
12 that -- right, I was just discussing this with my  
13 folks here, that it's been tasked to somebody. It  
14 looks like it hasn't been tasked to anybody, from what  
15 I can tell from the email I got.

16 MARK STAGGART: Okay.

17 KIM ANDERSON: So I'm not exactly -- I  
18 mean, maybe we need to sit down and go through these  
19 or -- because I'm not sure what I'm getting. If some  
20 office is already working on it, I don't want to  
21 ticket it to some other office and then --

22 MARK STAGGART: Yes. Well, one of them, I  
23 think, might be this request to -- to research, to  
24 generate a basic event tree (phonetic). Does that  
25 sound familiar?

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1 KIM ANDERSON: No, I haven't got that one.  
2 The two I have, one has to do with how is fuel  
3 removed from TMI-2.

4 MARK STAGGART: Yes, I saw that one.

5 KIM ANDERSON: And lessons learned. And  
6 the other one was (b)(5)

7 (b)(5)

8 (b)(5) which  
9 it looks like it was tasked to Charlie Miller in the -  
10 - on that task force.

11 MARK STAGGART: Yes.

12 KIM ANDERSON: Those are the two I got  
13 sent on Friday.

14 MARK STAGGART: Okay. I -- I'm not even  
15 seeing that one, but I'm sure it's probably on this  
16 list of stuff somewhere.

17 KIM ANDERSON: Now, how many do you have  
18 on this list there?

19 MARK STAGGART: Well, what I'm doing is,  
20 I've got the whole -- a printout of all the tasks, and  
21 most of them are internal here to the operation  
22 center. But then, there's a couple of them that I've  
23 -- you know, you can read through them and see if,  
24 based on -- they should be assigned to one of the  
25 program offices, not something that the -- well,

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1 there's a couple of them that specifically says  
2 "Research." And it even has the division in Research.

3 There's one about generating basis event  
4 trees. That seems like it's directed to -- it says  
5 "Research has been tasked. This chain can be closed  
6 once we get a confirmation from the EDO of a tracking  
7 number."

8 So, I don't know -- again, I would need to  
9 probably go back and talk to -- I'm not even -- I  
10 mean, it was -- it was generated by somebody from our  
11 reactor safety team. I would need to go back and talk  
12 to them, I guess, to see whether they communicated  
13 with Research directly on this or not.

14 But it's -- you know, it seems like, in  
15 order to close out the task here, we need to get some  
16 confirmation from you guys that it's been ticketed.

17 KIM ANDERSON: Yes. Well, and Research  
18 can ticket it to themselves. They don't need to --  
19 you don't need an EDO ticket. You can have a Research  
20 ticket, too, as long as someone's tracking it.

21 MARK STAGGART: Well, this is -- this is  
22 saying that the thing is -- there's -- this action can  
23 be closed on confirmation of an EDO tracking number.

24 I guess the problem is if -- if the  
25 program office does the ticketing itself, then I guess

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1 we will have -- I mean, I think they were trying to  
2 set up some kind of process, some kind of uniform  
3 process so that we can farm these things out and we  
4 can have a way of knowing that it's been taken care  
5 of.

6 And if -- I guess, if we've got to get a  
7 ticket from each of the program offices, that's going  
8 to kind of complicate that thing even more, to me.  
9 But --

10 KIM ANDERSON: Well, I mean --

11 MARK STAGGART: -- if the EDO -- if you  
12 guys send them a ticket and you copy the operations  
13 center here, then we'd know at that point that we can  
14 ticket it out of our queue here, and it will be --  
15 it's being managed.

16 KIM ANDERSON: And why couldn't you do the  
17 same thing if NR (phonetic) sent you a ticket number  
18 and they were tracking it?

19 MARK STAGGART: Well, we could, it's just  
20 everybody -- each program office will have to know  
21 that they need to send us back that confirmation.

22 KIM ANDERSON: Right.

23 MARK STAGGART: So, you are multiplying  
24 the amount of -- you are multiplying the -- how many  
25 people will have to know that. That's all. But, I

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1 mean, that --

2 At any rate, it sounds to me like this  
3 process is not really well-established yet. So --  
4 because you've got two tasks there, I guess you got  
5 from somebody and you don't know who you got them  
6 from, and you don't know whether they've been assigned  
7 or not.

8 KIM ANDERSON: Right. So that's --

9 MARK STAGGART: Yes, and that's why --

10 KIM ANDERSON: See, I'm not aware of  
11 what's been done on them from the ops center point of  
12 view and what discussions you've had with the offices  
13 or divisions or whatever.

14 I just get what the initial tasking was,  
15 at least in these two examples. So, you know, I'm --  
16 there's got to be a better communications scheme for,  
17 you know, when you guys give them -- you know, they  
18 should all come to me and I'll take a look at them.

19 MARK STAGGART: Well, that's what I was  
20 trying to say. If we can give them -- funnel through  
21 at least one person, otherwise you -- if -- if you --  
22 that's the point I was trying to make earlier.

23 It needs to be funneled through one  
24 person.

25 KIM ANDERSON: Yes. That's fine.

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1 MARK STAGGART: Yes.

2 KIM ANDERSON: As long as what's funneled  
3 is not just the raw input -- the raw request. It's  
4 the raw request plus everything the ops center has  
5 done with that ticket already.

6 You know, if you've had some discussions  
7 with the ET and ET said something or if you've had  
8 some discussions with the office and the office, you  
9 know, was going to -- you know, that specific -- it  
10 was going to be one specific office that did it or  
11 some division in that office, you know, that  
12 information is valuable to me when I get it.

13 So, I'm not sure how that -- how we can  
14 make that happen, but --

15 MARK STAGGART: Well, can we -- if -- can  
16 we set up a process where, if we're going to request  
17 one of the other program offices do it, that we --  
18 shouldn't that request to the program office recopy  
19 you on it, and we make sure we indicate that they need  
20 to reply back to both of us with an assigned ticket  
21 number?

22 KIM ANDERSON: Yes, that's good.

23 MARK STAGGART: And then that way, once we  
24 get that assigned ticket number -- I mean, you could  
25 do whatever you want with it, but I guess at that

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1 point we can go ahead and close out this because we'll  
2 know that they've assigned it to themselves.

3 KIM ANDERSON: Yes. Either they accept  
4 the responsibility or then the EDO's -- if they don't  
5 accept the responsibility, then the EDO's office would  
6 have to step up and say, "Okay. You will do it or  
7 we'll assign it" --

8 MARK STAGGART: We'll assign it to  
9 somebody else.

10 KIM ANDERSON: Right.

11 MARK STAGGART: Okay.

12 KIM ANDERSON: Okay.

13 MARK STAGGART: Well, can you send me --  
14 if you've got it by email, can you send me the task  
15 that was sent by email that was sent to you --

16 KIM ANDERSON: Sure.

17 MARK STAGGART: -- so I can take a look at  
18 that and I can try to reconcile that with what's on  
19 this -- in this list right now.

20 KIM ANDERSON: Sure. Who do you want me  
21 to send it to?

22 MARK STAGGART: Well, send it to my -- my  
23 personal -- my regular email account.

24 KIM ANDERSON: Okay. And so your last  
25 name again was?

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1 MARK STAGGART: Staggart. Mark Staggart.

2 KIM ANDERSON: Okay. I know that. Sorry.  
3 I didn't catch it the first time.

4 MARK STAGGART: Yes, that's okay.

5 KIM ANDERSON: Thanks, Mark. Yes, so I'll  
6 send that right now as soon as I dig it out. There it  
7 is. I got it right now.

8 MARK STAGGART: Yes.

9 KIM ANDERSON: So I'm sending it now.

10 MARK STAGGART: Okay.

11 KIM ANDERSON: You should have it here in  
12 a second. And then, yes, if you -- if you want to,  
13 you know, take a look and then, you know, whatever --  
14 how -- you probably have to write out some process, so  
15 everyone in the next shift does it the same way.

16 MARK STAGGART: Yes.

17 KIM ANDERSON: But if they want to forward  
18 them all to me in the office and then I'll make sure  
19 either the office responds or I respond back to you.

20 MARK STAGGART: Okay.

21 KIM ANDERSON: That's probably the best  
22 way to go.

23 MARK STAGGART: Yes. Okay.

24 KIM ANDERSON: All right.

25 MARK STAGGART: All right. Thanks a lot.

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KIM ANDERSON: Thank you, Mark.

MARK STAGGART: All right.

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Chairman Jaczko coming  
3 to the bridge.

4 MALE PARTICIPANT: Remind him that he  
5 needs to get Chuck. Better get Chuck.

6 JIM WIGGINS: This is Jim Wiggins.

7 MIKE WEBER: Mike Weber.

8 CHAIRMAN JACZKO: Hi, Mike.

9 MIKE WEBER: Yes. We're here. We're  
10 trying to get Chuck, too. He's just standing by, Mr.  
11 Chairman.

12 CHAIRMAN JACZKO: Oh, he is?

13 MIKE WEBER: Yes. We're placing the call  
14 so now to try to get him to join in.

15 CHAIRMAN JACZKO: Is he -- if it's too  
16 late, then don't. Let him sleep.

17 JIM WIGGINS: I just talked to him ten  
18 minutes ago.

19 CHAIRMAN JACZKO: Okay.

20 JIM WIGGINS: He's sitting there waiting  
21 for the call. It is almost one o'clock in Japan, one  
22 a.m.

23 MALE PARTICIPANT: Excuse me, sir. We  
24 have Mr. Pasco coming up to the bridge now.

25 CHAIRMAN JACZKO: Good. Thank you.

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1 MALE PARTICIPANT: You're welcome.

2 MALE PARTICIPANT: Hey. Chuck.

3 JIM WIGGINS: Chuck, you up? Chuck.

4 CHUCK PASCO: Yes.

5 JIM WIGGINS: Okay. The Chairman is on  
6 the line.

7 All right, sir. We're here. Not much big  
8 news with the plant. You probably were aware of the  
9 fact that Unit 1's containment is showing signs that  
10 it's kind of leaking.

11 CHAIRMAN JACZKO: Yes.

12 JIM WIGGINS: So, you know, that's about  
13 the same. The staff is -- I guess the -- if there's  
14 an issue that you can say is (b)(5)

15 (b)(5)

16  
17 CHAIRMAN JACZKO: Yes.

18 JIM WIGGINS: You know, we're still more  
19 into expediting or increasing the fill rate, and then  
20 also doing something with the containment.

21 (b)(5)

22  
23  
24  
25 CHAIRMAN JACZKO: Okay.

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1 JIM WIGGINS: So they've pushed back  
2 asking for some information on that. Actually,  
3 probably the leak -- the leak in the containment,  
4 probably helps things. So --

5 CHAIRMAN JACZKO: What -- how would that  
6 impact -- I mean, it would seem that more hydrogen  
7 would make you less inclined to fill, but it seems to  
8 be the opposite.

9 JIM WIGGINS: Well, yes, they don't want  
10 to -- they don't want to repeat a high -- everything  
11 is connected to everything else. They don't want a  
12 hydrogen explosion, but I don't know how much that --  
13 how likely that would be, anyhow, because if they are  
14 venting it to what used to be the turbine building --

15 CHAIRMAN JACZKO: Right.

16 JIM WIGGINS: -- it's sort of wide open  
17 spaces now, which wasn't the case when the problems  
18 originally started.

19 CHAIRMAN JACZKO: Yes.

20 JIM WIGGINS: You know, the -- you know,  
21 the staff concern center is on what it thinks might be  
22 the hydrogen in the drywell is (indiscernible,  
23 possibly "bad"). You know, and the venting is really  
24 trying to also result a filling (phonetic), so --

25 CHAIRMAN JACZKO: Okay.

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1 JIM WIGGINS: Fill it up without venting  
2 it, you're going to try to either -- you're going to  
3 try to press it up then.

4 CHAIRMAN JACZKO: Yes. Yes.

5 JIM WIGGINS: So, you know, it's just --  
6 it's just a complicated question because there's a lot  
7 of things happening --

8 CHAIRMAN JACZKO: Yes.

9 JIM WIGGINS: -- at the same time.

10 The staff is still looking to put water in  
11 the drywell, preferably high enough to submerge the  
12 bottom head.

13 CHAIRMAN JACZKO: Yes.

14 JIM WIGGINS: And there's for concerns for  
15 what -- for corrosion that might be occurring down in  
16 that bottom head that might have fuel material on the  
17 head, plus it was --

18 CHAIRMAN JACZKO: Yes.

19 JIM WIGGINS: -- you know, pretty much  
20 saddled with a bunch of salt.

21 CHAIRMAN JACZKO: Yes.

22 JIM WIGGINS: So, you know, they --  
23 there's a whole bunch of penetration down there,  
24 probably in excess of 500 if you count the CRD tubes  
25 and the entrance penetration.

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1           So, you know, all those pen's are what  
2 we've seen here, at other facilities, hanging the  
3 PWR's from the top heads. You know the J-groove welds  
4 on the back side?

5           CHAIRMAN JACZKO: Yes.

6           JIM WIGGINS: Yes. So, you know, they're  
7 just pipes kind of jammed through all over the J-  
8 grooves --

9           CHAIRMAN JACZKO: Yes.

10          JIM WIGGINS: -- weld on it. So, you  
11 know, there's even a -- we've had some information  
12 courtesy of Naval Reactors that did some calculations  
13 that indicate that with the extensive use of saltwater  
14 could have fairly, you know, relatively aggressive  
15 corrosion rates.

16          CHAIRMAN JACZKO: Yes.

17          JIM WIGGINS: So there's concern over  
18 that.

19          So if they put enough water in the  
20 drywells, basically if you do get some type of a big  
21 failure, then you -- in my kind of simplistic  
22 understanding, you would tend to get more of a  
23 quenching than --

24          CHAIRMAN JACZKO: Yes.

25          JIM WIGGINS: -- type of an energetic

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1 activity by the hot stuff dropping in the water, you  
2 know, getting --

3 CHAIRMAN JACZKO: Yes.

4 JIM WIGGINS: -- drop hot stuff into a  
5 little water you might get some rapid boil-off. If  
6 you drop it into a whole pot here, not so much. So --

7 CHAIRMAN JACZKO: Yes.

8 JIM WIGGINS: -- once they --

9 CHAIRMAN JACZKO: Now, Jim, yesterday -- I  
10 think yesterday when I talked to Chuck, where we were  
11 at was -- was we were going to put that aside for now  
12 and just kind of focus on getting the more information  
13 about kind of feed and bleed and what the long-term  
14 implications of that are.

15 Have we been working on that?

16 JIM WIGGINS: Yes. They're working on a  
17 paper on that.

18 CHAIRMAN JACZKO: Okay. Good.

19 JIM WIGGINS: Chuck, do you have anything  
20 you want to add?

21 CHUCK PASCO: No. Well, I'll just add  
22 that we did compare the hydrogen calculations. It all  
23 comes down to how much leakage there is.

24 CHAIRMAN JACZKO: Yes.

25 CHUCK PASCO: And that's just -- you know.

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1 And the other thing is that --

2 MALE PARTICIPANT: They are asking you a  
3 lot of questions about flooding?

4 CHUCK PASCO: Yes.

5 MALE PARTICIPANT: That indicates a lot of  
6 interest in flooding, and they are following tomorrow.  
7 We'll start nitrogen injection.

8 CHAIRMAN JACZKO: Yes. To try and deal  
9 with the hydrogen, then?

10 JIM WIGGINS: Yes.

11 CHUCK PASCO: Right. Try to dilute the  
12 hydrogen, so they'll probably do some nitrogen  
13 injections.

14 We had an interesting question by NISA  
15 today. They asked the question, essentially, and I'm  
16 paraphrasing, what does "safe" look like --

17 CHAIRMAN JACZKO: Yes.

18 CHUCK PASCO: -- is the question they  
19 asked us. So, that's a -- you know, that's an  
20 interesting question and --

21 CHAIRMAN JACZKO: Yes.

22 CHUCK PASCO: -- so we're working on that  
23 and we'll talk with them tomorrow at the eleven  
24 o'clock meeting about what "safe" looks like.

25 CHAIRMAN JACZKO: Good. Good.

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1 JIM WIGGINS: Although, we've been -- it  
2 was described to me as "stable." You know, what does  
3 "stable" look like which, I guess is --

4 CHUCK PASCO: Yes.

5 JIM WIGGINS: -- close enough, yes, to be  
6 synonymous.

7 CHAIRMAN JACZKO: Chuck, are there any  
8 other issues that kind of on the nontechnical side,  
9 but any coordination issues or things like that where  
10 you're having any trouble --

11 CHUCK PASCO: No.

12 CHAIRMAN JACZKO: -- that you need to  
13 engage on?

14 MALE PARTICIPANT: No. No trouble yet.  
15 Just for awareness, we expect an embedded individual  
16 from CDC to arrive tomorrow.

17 CHAIRMAN JACZKO: Oh, good.

18 MALE PARTICIPANT: We are -- liaison teams  
19 talked to the individual, trying to sort out what was  
20 the responsibilities. That -- let's just say that's  
21 not set yet.

22 CHAIRMAN JACZKO: Okay.

23 MALE PARTICIPANT: The truth is the  
24 individual really didn't know why he was being sent.

25 CHAIRMAN JACZKO: Okay.

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1 MALE PARTICIPANT: So he's calling back to  
2 his -- to Atlanta to try to figure out what -- what  
3 expectations his people have of him, and then, when he  
4 gets here, we'll sort out what -- where he sits.

5 CHAIRMAN JACZKO: Okay. My sense, from  
6 some calls I've been on is that's just to make sure we  
7 have good coordination, talking about -- talking about  
8 issues, in particular, probably with KI and things  
9 like that.

10 MALE PARTICIPANT: Yes. I'm assuming it's  
11 doses that's been (indiscernible, possibly "post  
12 effect"), that kind of stuff.

13 CHAIRMAN JACZKO: Yes. Yes. Good.

14 Chuck, anything you're needing right now  
15 from me?

16 CHUCK PASCO: No. (b)(5)

17 (b)(5)

18  
19 CHAIRMAN JACZKO: Okay.

20 CHUCK PASCO: And that's what we heard,  
21 and then the white paper is due on return criteria  
22 from the health effects team sometime tomorrow.

23 CHAIRMAN JACZKO: Good.

24 CHUCK PASCO: So they will be looking at -  
25 - I think they are just going to let the 30-day

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1 voluntary departure expire.

2 CHAIRMAN JACZKO: Okay.

3 CHUCK PASCO: Which would allow dependents  
4 to return.

5 CHAIRMAN JACZKO: Are you comfortable with  
6 that?

7 CHUCK PASCO: Yes, sir. Yes.

8 CHAIRMAN JACZKO: Okay.

9 CHUCK PASCO: We don't have -- we don't  
10 see any threat to Tokyo.

11 CHAIRMAN JACZKO: Okay.

12 JIM WIGGINS: It's return to Tokyo, Chuck?

13 CHUCK PASCO: Yes.

14 JIM WIGGINS: Is that the return to Tokyo?

15 CHUCK PASCO: Yes.

16 JIM WIGGINS: Because you can't -- I  
17 wouldn't suggest we completely dissolve the  
18 evacuation. I mean, heck, we -- the Japanese still  
19 have arguably a 30-kilometer.

20 CHAIRMAN JACZKO: Yes.

21 CHUCK PASCO: So, we're not -- we're not  
22 doing that at all. That's -- this doesn't have  
23 anything to do with the -- the evacuation.

24 JIM WIGGINS: Yes.

25 CHUCK PASCO: This is to return to --

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1 JIM WIGGINS: Physically return to --

2 CHUCK PASCO: Dependent return to Tokyo,  
3 yes.

4 JIM WIGGINS: Yes.

5 CHUCK PASCO: Embassy dependents return to  
6 Tokyo.

7 JIM WIGGINS: Yes.

8 CHAIRMAN JACZKO: Good. Good. Well,  
9 Chuck, you probably had a long day. You should  
10 probably go get some sleep.

11 CHUCK PASCO: No problem. Thank you.

12 CHAIRMAN JACZKO: All right.

13 CHUCK PASCO: Talk to you soon.

14 CHAIRMAN JACZKO: Okay. Thanks, Chuck.

15 CHUCK PASCO: All right. Chairman,  
16 anything else?

17 CHAIRMAN JACZKO: No. You have a clear  
18 sense of what your focus is for today?

19 CHUCK PASCO: Yes. We -- we're pretty  
20 much -- we had that briefing this morning from the  
21 team, got together, got a priority, got a sense of  
22 what we're up to.

23 CHAIRMAN JACZKO: Good.

24 CHUCK PASCO: And we're -- we should be --  
25 we should be okay.

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1 CHAIRMAN JACZKO: Okay. Good. Thank you.

2 JIM WIGGINS: And I think you have a

3 deputies -- you're sitting in on a deputies call?

4 MIKE WEBER: Right. At 1:30.

5 CHAIRMAN JACZKO: Good.

6 JIM WIGGINS: All right, sir.

7 CHAIRMAN JACZKO: Let me know, Mike, if

8 anything -- if there's any problems that come out of

9 that and if you need me to engage this evening, just

10 give me a call.

11 MIKE WEBER: Will do. Josh will be on

12 that call, too, so --

13 CHAIRMAN JACZKO: Oh, good. If he gets

14 out of line, let me know that, too.

15 MIKE WEBER: Okay. He won't.

16 CHAIRMAN JACZKO: I know.

17 JIM WIGGINS: This is a recorded line,

18 remember.

19 MIKE WEBER: I guess you're going into the

20 DG's meeting, soon?

21 CHAIRMAN JACZKO: Yes. About 20, 25

22 minutes.

23 MIKE WEBER: Okay.

24 CHAIRMAN JACZKO: Anything you need to

25 support from here?

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1 MIKE WEBER: No.

2 CHAIRMAN JACZKO: I think we're trying to  
3 track down the charter for the 90-day task force. I  
4 don't know that we've gotten that yet. Somebody has  
5 that and they can send it to somebody here.

6 MIKE WEBER: Absolutely. Who do you want  
7 it sent to?

8 CHAIRMAN JACZKO: Who can I have the task  
9 force charter sent to?

10 Andre Jones or Michael Marshall.

11 MIKE WEBER: Okay.

12 CHAIRMAN JACZKO: Get it --

13 MIKE WEBER: We'll get it over there.

14 CHAIRMAN JACZKO: Great. Thank you.

15 MIKE WEBER: Thanks.

16 CHAIRMAN JACZKO: Thanks for (inaudible).

17 MIKE WEBER: Thank you, Chairman.

18 JIM WIGGINS: Thank you, too.

19

20

21

22

23

24

25

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1 (CONFERENCE CALL INITIATED)

2 OPERATOR: Transferring. This call may be  
3 recorded. After the tone, please state your name and  
4 organization, followed by the "pound" key.

5 MALE PARTICIPANT: Executive Team Room.

6 MALE PARTICIPANT: NRC Japan team is on.

7 LAURA DUES (phonetic): Good afternoon,  
8 Japan Team. This is Laura Dues (phonetic) in the  
9 Reactor Safety Team. I'm on. We also have INPO and  
10 GEH on the line. Anyone else on the line?

11 MALE PARTICIPANT: Naval Reactors is on  
12 the line.

13 MALE PARTICIPANT: EPRI (phonetic) on the  
14 line.

15 LAURA DUES: Oh, good.

16 MALE PARTICIPANT: All right. We got  
17 everybody?

18 LAURA DUES: All right.

19 MALE PARTICIPANT: Plant status, Unit 1,  
20 24 hours ago lowered flow again to six cubic meters  
21 per hour. That's about a hundred liters per minute.  
22 And we did talk to McGeddon (phonetic) at our meeting  
23 and made the same comment as before about the  
24 consortium recommendation, that they should attempt to  
25 at least bring flow up, try to maximize it because of

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1 the potential to bypass some flow that's not going to  
2 the vessel, but going to the seals.

3 They (indiscernible, possibly "email us")  
4 again, our input and essentially provided the same  
5 comment that they did before, which was the concern on  
6 reducing the pressure in the Unit 1 drywell, which  
7 could cause problems with oxygen.

8 So I think we've said it every day for  
9 over the last week and they've acknowledged it, but I  
10 think they are more concerned about the atmosphere  
11 and, at least for not, not filling.

12 Temperatures. If you look at temperatures  
13 -- I'm not going to use the word "stable," but I'll  
14 say they're static. In other words, they are  
15 relatively constant with the hottest temperatures  
16 around the 250 degree C on Unit 1.

17 And as far as drywell pressures on Units  
18 1, 2 and 3, are pretty stable with Unit 1 slowly  
19 lowering and more than likely just due to the leakage  
20 out of the containment drywell, which they are now  
21 updating as five to 30 percent.

22 And that's all I had for plant parameters.  
23 Anything else from plant?

24 MALE PARTICIPANT: (Inaudible).

25 MALE PARTICIPANT: Other than the spent

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1 fuel pool, they really didn't -- haven't been adding  
2 water recently. They didn't add anything to the Unit  
3 4. They didn't add anything to the Unit 4 since the  
4 1st, so that might start to get to be a concern when  
5 you get to the boil-off and leakage.

6 MALE PARTICIPANT: We'll track that. If  
7 we don't hear anything by tomorrow morning, we'll  
8 probably talk to them.

9 FEMALE PARTICIPANT: And, Mike, I think we  
10 saw a report that saw dose rates going up  
11 significantly in the tours (phonetic) on Unit 2. Can  
12 you guys confirm?

13 MALE PARTICIPANT: No.

14 FEMALE PARTICIPANT: Okay. I think the  
15 number we saw was in the thousands range, by --  
16 sitting around a hundred and something.

17 MALE PARTICIPANT: Well, it be the unit  
18 they're using, or using ceverts (phonetic) per hour?  
19 No, it's been pretty constant -- I won't say  
20 "constant." It's slowly lowering. It's --

21 FEMALE PARTICIPANT: I know. That was --

22 MALE PARTICIPANT: -- per hour.

23 FEMALE PARTICIPANT: That was what was a  
24 concern for us. It's right here. Yes, it looks for  
25 the drywell, it went up to 3.3 ten to the one, ceverts

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1 (phonetic) for drywell.

2 FEMALE PARTICIPANT: That went down,  
3 actually. That one --

4 FEMALE PARTICIPANT: I'm sorry.

5 MALE PARTICIPANT: I guess -- I guess when  
6 I looked at it, they are all in about the same order  
7 of magnitude and slowly going down. Maybe not from  
8 day-to-day, but -- I mean, they all started in the  
9 order of ten to the second ceverts per hour, and they  
10 are all now into the ten to the first ceverts per  
11 hour.

12 We saw Unit 1 had a jump. That might be  
13 what you're thinking of. Unit 1 had a jump up to --  
14 from about 35 to 42 and then 46 ceverts per hour, but  
15 today it's around 37 and if you look at the data, I  
16 think some folks have plotted it out. It looks like  
17 there is a little bit of what I'll call, you know,  
18 some noise.

19 So, we are tracking that. We did mention  
20 it to NISA and TEPCO, that they should keep their eye  
21 on that. And we did that yesterday.

22 FEMALE PARTICIPANT: And that was Unit 1?

23 MALE PARTICIPANT: That's correct.

24 FEMALE PARTICIPANT: Understand. Unit 1.

25 MALE PARTICIPANT: Right. And I think

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1 some other folks, some of the Navy folks mentioned  
2 that, too, so we've alerted them to it. Although the  
3 last two readings over the last 12 hours have shown  
4 this one come down.

5 FEMALE PARTICIPANT: Okay. All right.  
6 Well, if there's any other follow-up we can do with  
7 giving you the source of info and any other changes or  
8 concerns, we'll send you a note on that.

9 MALE PARTICIPANT: Okay. All right. So I  
10 thought we'd summarize a little bit what happened in  
11 the meeting. We had a good exchange. This is the  
12 first time we had a technical exchange on the  
13 assumptions, and (b)(5)

14 (b)(5)  
15  
16  
17  
18

19 But he did indicate that he didn't have  
20 all the background documents. So, that's why they  
21 gave us this three-page document. Hopefully folks  
22 have had a chance to see it.

23 It essentially provides a framework on  
24 what they want to discuss. And I think I took out of  
25 that -- at least I did -- is (b)(5)

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1 (b)(5)

2  
3  
4 I think (b)(5)

5 (b)(5)

6  
7  
8  
9 (b)(5) -- I'm calling it the Q-385 document that the  
10 consortium approved, so that they can make a decision  
11 on what they want to do.

12 I'll footnote that by saying, you know, it  
13 could become -- overcome by events because right now  
14 we're being told by their management and by the front-  
15 line engineers that they will start to at least to  
16 attempt to put nitrogen into the containment, starting  
17 tomorrow.

18 So, as we (indiscernible, possibly "new  
19 the line"), we should take the right time to  
20 (indiscernible, possibly "noodle"), I think the big  
21 picture is that they're going to move forward with  
22 their top priority is inerting, and then following up  
23 by filling, whereas, of course, the consortium project  
24 is fill without regard to having inerting done.

25 ROB TAYLOR (phonetic): This is Rob Taylor

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1 (phonetic). I apologize. I came in just a minute  
2 late, but I mean, some of these are pretty  
3 straightforward questions. If they are (inaudible),  
4 maybe we can get some -- a gut feel for the responses.

5 We thought we knew the answers, but we  
6 wanted to provide a (inaudible).

7 MALE PARTICIPANT: What's the -- is that  
8 how the RST wants to handle it? I mean, I think we're  
9 trying to -- and a lot of that tactic (phonetic) ends  
10 up being process. Is what we were hoping was that  
11 TEPCO and INPO would work the technical part, but I  
12 think the way it's being presented now, the consortium  
13 owes an answer. I agree with that.

14 MALE PARTICIPANT: But I don't think we  
15 need to write up a complete response. I think that we  
16 should -- if we know the answers at a high level, I  
17 think they -- we can go back because some of these are  
18 yes/no type of questions.

19 MALE PARTICIPANT: Right. But I think  
20 what NISA was saying is that they want to see more  
21 behind what we have. The verbal may not be good for  
22 them.

23 MALE PARTICIPANT: Well, as the NRC. What  
24 -- has everyone had a chance to digest it? Are we  
25 ready to try to tackle it in this call?

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1 MALE PARTICIPANT: And we could try it if  
2 folks are ready.

3 FEMALE PARTICIPANT: Well, what I think we  
4 should do -- and I know INPO and the rest of the folks  
5 are on the call. There's been multiple questions.  
6 It's the same questions came in through the INPO rep  
7 who is embedded with TEPCO as the questions that we  
8 got from you, from your meeting from NISA and TEPCO.

9 So I'd like to start pulling this together  
10 and get one response on these issues. I believe that  
11 there was a response, at least a partial response on  
12 some of these issues that came in from the PTSCRC.

13 And I think we sent that off to the site  
14 team.

15 MALE PARTICIPANT: That's correct.

16 MALE PARTICIPANT: Did you just send it?  
17 I didn't see it. What time?

18 MALE PARTICIPANT: Oh, in the day shift.

19 FEMALE PARTICIPANT: Well, it got sent to  
20 the site team. It may have gotten sent on the day  
21 shift, but we resent it probably the past hour or so.

22 MALE PARTICIPANT: Okay. Okay. I didn't  
23 look at my email.

24 FEMALE PARTICIPANT: But I think what we  
25 need to do on this call, rather than solving it, is

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1 make sure we know who has the -- the lead and that we  
2 send a final answer.

3 I don't know if there's any distinction  
4 between the questions that INPO and the consortium was  
5 dealing with from their representatives, and the  
6 question that you guys had sent to us.

7 I think it's the same vein, so let's  
8 figure out the lead, who's going to response fully  
9 because, even the one response may need some  
10 additional information based on this call.

11 MALE PARTICIPANT: But how -- and how do  
12 you envision the product to be? I guess I'm  
13 suggestion that the product needs to be a written  
14 product.

15 MALE PARTICIPANT: (Randy) Hey, Jack.  
16 This is Randy at INPO.

17 MALE PARTICIPANT: Yes, Randy.

18 MALE PARTICIPANT: I totally agree. It  
19 needs to be a written product. They've made it clear  
20 to us that they don't want a product that is an INPO  
21 product or a GE product, that they want it to be the  
22 US product, and so we do need to -- maybe we don't  
23 need to go through that same formality as the RST  
24 assessment where senior managers approve this, but it  
25 at least should be an agreement between everybody

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1 that's on this phone call, of what the product is.

2 MALE PARTICIPANT: Okay. Laura, are you  
3 okay with that?

4 FEMALE PARTICIPANT: (Laura) Yes. I'm  
5 okay with that and I've already seen a partial  
6 response. I think I'd like to ask Randy, if you guys  
7 are going to take the lead to finalize this, including  
8 the basis.

9 Because, what I'm hearing is that they'd  
10 like to get a full understanding of the basis behind  
11 the Q-385 document and, if we can put that together  
12 and send it to the RSP, we'll all take -- put our eyes  
13 on it and consider that the US answer.

14 MALE PARTICIPANT: Right. And you're  
15 right. INPO would like to have the lead. We're fine  
16 with that, although it's really -- we've been working  
17 with General Electric on that product, and so we'll  
18 continue to do that.

19 Our tech people that came up with the  
20 initial product and worked with GE, they come in at  
21 six in the morning. I want to -- I'm ready to give  
22 that to them as soon as they walk in the door.

23 We have some additional information I'll  
24 pass out via electronically that, as soon as we get it  
25 translated, our people have access to the TEPCO ZRC

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1 (phonetic) and they provided some additional  
2 information and we'll get that translated and out to  
3 the team.

4 And I would propose that, by ten o'clock  
5 tomorrow morning, we could have a -- a draft response  
6 for the RST team to talk about on their eleven  
7 o'clock call.

8 MALE PARTICIPANT: That would be great.  
9 And I think I'd just leave it to the RST. I heard  
10 what you said, Randy, as far as what's the level  
11 approval. I'm going to leave that up the RST. If the  
12 RST says it's good to go and we get the okay to share  
13 it with, you know, NISA and TEPCO, good. If we think  
14 we want the same level, I'm going to leave that up to  
15 the RST.

16 MALE PARTICIPANT: Okay.

17 FEMALE PARTICIPANT: Okay. And what I'm  
18 going to tell you is, let's start working on the  
19 product. And, from our perspective, we will figure  
20 out the answer in terms of the levels concurrence  
21 needed for the document.

22 And now you're -- Randy, you're telling me  
23 you're thinking around ten a.m. we can see this  
24 document?

25 MALE PARTICIPANT: (Randy) I believe.

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1 So, GE, do you think that you guys can work with our  
2 day shift team and get something by then, too?

3 MALE PARTICIPANT: Well, we can work with  
4 your day shift team. We're just talking about some of  
5 our hydrogen experts are rolling to nights, so we're  
6 going to have to sort of start at seven and see what  
7 we can do to get something together by ten, but that  
8 may be a little more difficult for us.

9 MALE PARTICIPANT: Okay. And maybe --  
10 yes. All right.

11 MALE PARTICIPANT: But we're going to have  
12 to -- so we'll pass it on to the day shift when they  
13 get in, and we'll have to get back to you guys and  
14 tell you what time.

15 MALE PARTICIPANT: Just so that everybody  
16 knows, our representative that's over there with TEPCO  
17 has said that they would like their answer by 0800 on  
18 the 5th, Japanese time, so that would be seven o'clock  
19 tomorrow.

20 So, the end of day shift is kind of our  
21 drop-dead date is what we're shooting for. And that,  
22 in and of itself, may preclude all those additional  
23 approvals.

24 FEMALE PARTICIPANT: Yes, and I was just -  
25 - well, I just want to back this up where everyone's

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1 on a different time frame.

2 You guys mentioned in status that they're  
3 going -- are moving forward with nitrogen starting  
4 when?

5 MALE PARTICIPANT: Yes. Starting  
6 tomorrow, and we're 12 hours ahead of you, or 13. So  
7 that they may be partially overcoming in that they are  
8 going to be inerting so that the potential explosive  
9 atmosphere is gone, but clearly, you know, they're  
10 going to be fine (indiscernible, possibly "starting")  
11 tomorrow.

12 MALE PARTICIPANT: Right. Yes.

13 MALE PARTICIPANT: Yes. We -- the rig has  
14 been tested. The machine, diesel-tested to the  
15 compressor, but they are going to hook up now and see  
16 if they have time, you know, if they can pressurize  
17 the line.

18 (b)(4)  
19  
20  
21  
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25

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1 So, I think they just want it sooner than  
2 later. I don't know if there's any reason they want  
3 it at eight in the morning, but I'm sure it's just to  
4 get the information so that they can present it to us,  
5 or we can present it to them at the eleven o'clock  
6 meeting, Tokyo time.

7 MALE PARTICIPANT: And, Mike, how are they  
8 going to judge whether or not they're successful with  
9 the inerting? What --

10 MALE PARTICIPANT: (Mike) This is an open  
11 question on that. I -- you know, there's -- before we  
12 thought that the containment was -- (b)(4)

13 (b)(4)

14  
15  
16  
17 MALE PARTICIPANT: Actually, I mean, it's  
18 not -- I mean, the -- (b)(4)

19 (b)(4)

20 MALE PARTICIPANT: Yes.

21 MALE PARTICIPANT: (b)(4),

22 (b)(4)

23 MALE PARTICIPANT: (b)(5)

24 (b)(4)

25  
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1 MALE PARTICIPANT: And, if not, I think  
2 that -- I believe GE has provided some info through  
3 the embedded team about the potential time, how long  
4 you would have to, based on a certain flow rate, I saw  
5 some questions that went to -- to GE and INPO on the  
6 amount of time you would have to, based on that leak  
7 rate.

8 Now, I don't know what the value is, so I  
9 believe they are thinking about it and have some  
10 ideas.

11 FEMALE PARTICIPANT: All right. Anything  
12 else on this topic?

13 MALE PARTICIPANT: Just to make sure I  
14 heard. So, the Japan team would like something by  
15 0800 Japan Standard Time on the 5th.

16 MALE PARTICIPANT: Yes.

17 MALE PARTICIPANT: Now, I'm not -- I'm not  
18 -- it's not Japan team. I believe that's the embedded  
19 folks saying that TEPCO is asking them.

20 MALE PARTICIPANT: Okay.

21 MALE PARTICIPANT: The Japan team says get  
22 it as soon as you can.

23 MALE PARTICIPANT: Okay.

24 MALE PARTICIPANT: And I don't think  
25 there's a hard date on anything. We want a product

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1 that's -- that, you know, we can stand by that's  
2 vetted properly. But I don't have that time frame.

3 MALE PARTICIPANT: Okay. Thanks.

4 FEMALE PARTICIPANT: All right. Someone's  
5 going to summarize that -- INPO, you guys are going to  
6 have the lead, working with GE and others? You're  
7 looking to try and get the key player something by ten  
8 a.m. tomorrow morning, which is April 4th, and the  
9 RST's action, we're just going to verify what level of  
10 concurrence would be -- they'd want us to look at when  
11 we send this product down.

12 And the product will focus on the basis  
13 behind our discussions in the Q-385 document.

14 MALE PARTICIPANT: Exactly right. And I'm  
15 going to pass on to our people that keep the NR person  
16 cut in on drafts and email traffic. I think that  
17 there were some good value add on that other product  
18 today, although it was kind of after the fact of a lot  
19 of that assembly of that other options document, and  
20 so I want them to be weighing in if they have  
21 comments, you know, real-time.

22 FEMALE PARTICIPANT: Okay. Good.  
23 Anything else?

24 MALE PARTICIPANT: I just got to get  
25 status on that. I believe it's called the option B.

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1 It used to be colloquially termed "the Elmo Document,"  
2 but I think we're trying to -- we've been told to stay  
3 away from that term.

4 FEMALE PARTICIPANT: Yes.

5 MALE PARTICIPANT: By Elmo. So -- so I'm  
6 looking for when do we think -- I think I was told  
7 maybe sometime tomorrow.

8 FEMALE PARTICIPANT: We had -- we had sent  
9 out a draft. That's going to be my next topic here,  
10 is that we did finish up a graph based on inputs from  
11 the industry, Naval Reactors, so we've sent that draft  
12 out probably within the last hour and for all, both  
13 industry and Japan team to take a look at and provide  
14 us comments.

15 We took the recommendations. There were  
16 some issues associated with different flow rate  
17 curves. There was a recommendation on format that  
18 came in. There was a few other questions, and we  
19 tried to capture all of those items and consolidate it  
20 into one document, so that document has been sent by  
21 the RST. It was sent probably around 2:30 a.m. our  
22 time.

23 MALE PARTICIPANT: Yes. INPO has already  
24 started reviewing it.

25 FEMALE PARTICIPANT: Some reports --

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1 MALE PARTICIPANT: I think what I'm  
2 hearing is --

3 FEMALE PARTICIPANT: -- now that we're  
4 reviewing it, when do you expect that we can get  
5 comments or questions back on that document?

6 MALE PARTICIPANT: I would propose that we  
7 could get them back for the eleven o'clock discussion  
8 as well. And I could get you -- I could get my  
9 comments back by -- in another hour. It wouldn't get  
10 quite as vetted through the same people that reviewed  
11 it the first time unfortunately.

12 So, if you want it expedited, I can get  
13 it. Our -- our original people were satisfied with --  
14 with the document before the NR stuff, so -- and I  
15 don't think they'd have a problem with it. I think  
16 that -- everything that was done was a value-add. So  
17 I could have my comments back shortly.

18 FEMALE PARTICIPANT: Okay. I'd take a  
19 good look, though, because there were some things that  
20 were merged, combined and special -- please pay  
21 special attention to the time frame for which we put  
22 things in, because there was -- there wasn't a clear  
23 thought on some of the items. So, please take a look  
24 at where they are placed.

25 MALE PARTICIPANT: Okay. And after the

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1 Japan team gets off the line, do we want to maybe talk  
2 about some of the specifics on this?

3 FEMALE PARTICIPANT: Sure.

4 MALE PARTICIPANT: Okay.

5 FEMALE PARTICIPANT: Okay. So that's the  
6 updated recommendations document. We talked about the  
7 questions on gas and the modeling and the basis behind  
8 that.

9 What else do you have, site team?

10 MALE PARTICIPANT: Two other items. A  
11 prognosis on spent fuel pool for assessment. I think  
12 we were looking for -- I think Rob said Tuesday or  
13 Wednesday.

14 Rob, what was the expected time for the  
15 spent fuel pool for assessment?

16 MALE PARTICIPANT: (Rob) My understanding  
17 was tomorrow.

18 MALE PARTICIPANT: Okay. Tuesday, Rob is  
19 saying.

20 FEMALE PARTICIPANT: That's what I'm  
21 hearing here as well. I believe that they have put  
22 some of that work into the line organization and  
23 research and NRR to come up with that. So, it's still  
24 on track for Tuesday.

25 MALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: Okay. Thank you. The  
2 last item was an item that -- that needs to  
3 specifically mention -- and we told them we were  
4 working on it with the consortium, and this was this  
5 two-phased approach to taking the units down and  
6 stabilizing the units.

7 And the way it was termed, there was this  
8 first phase, I'll call it a quasistable phase where  
9 there was no major release potential, and no major  
10 event potential. And the second one was on cold  
11 shutdown, long-term cooling, stable.

12 And what NISA had asked was the NRC's  
13 perspective, the consortium's perspective, actually,  
14 on whether we would consider that state to be and, you  
15 know, for managing this crisis.

16 And I think the consortium was giving that  
17 about a day ago. He's asked again, and I'm -- and  
18 Mike told him, I think, you know, we're still  
19 following up. So I wanted to make sure that was still  
20 in the consortium's agenda.

21 (b)(4)  
22  
23  
24  
25

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1 And so, if that's not right, I'm sure the  
2 consortium would tell us that. But we provided some  
3 lead but he is looking for what I'll call the US  
4 Government position on what would be this -- a called,  
5 for lack of a translation, (b)(5)

6 (b)(5)

7  
8 Not, obviously, the -- (b)(5)

9 (b)(5)

10 (b)(5)

So, do you still have that on your plate?

11 FEMALE PARTICIPANT: Yes.

12 MALE PARTICIPANT: Okay. Good. And any  
13 prognosis on that?

14 FEMALE PARTICIPANT: I --

15 FEMALE PARTICIPANT: Wasn't that a  
16 (indiscernible, possibly "wind stable") --

17 FEMALE PARTICIPANT: Yes. I don't -- I  
18 don't have one. I don't have one right now. I'm  
19 curious as to -- have they written down their -- their  
20 view of this? I mean, you just gave it to me in terms  
21 of they're looking for our position on what is phase  
22 one/phase two stability is going to be.

23 Have they written that down, or this is a  
24 verbal discussion and we need to make, based on all  
25 the information in front of us, we need to make and

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1 assessment on that particular approach?

2 MALE PARTICIPANT: The answer to your  
3 question is no. It was not written down. (b)(5)

4 (b)(5)  
5  
6  
7  
8  
9  
10  
11

12 Obviously, it's not going to be in the  
13 state that they are now, but he's looking to try to  
14 strategically set out a couple weeks. So, I think the  
15 answer is you're going to have to use the best info  
16 you have, which is the best info we have and make an  
17 assessment, and, yes, I'm sure it's judgment, but I  
18 think that's what he's looking -- I don't think he's  
19 going to do anything other than share his thoughts,  
20 and try to come up with how they can manage.

21 (b)(5)  
22  
23

24 So, clearly, it's going to be used to  
25 engage their senior management. So, I don't think it

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1 should be taken lightly. So -- and I mean, if I can --  
2 - I can write down exactly what I said, but it won't  
3 -- that's all he said, is that those two criteria, (b)(5)

4 (b)(5)  
5  
6

7 MALE PARTICIPANT: I think Mike already  
8 sent an email regarding this, and the wording bounced  
9 back and forth with the RST a couple of times to make  
10 sure it was clear what was being asked, but I think it  
11 would reach --

12 FEMALE PARTICIPANT: All right. We have  
13 the action and we --

14 MALE PARTICIPANT: I didn't know that.  
15 Did you guys -- did you hear that? Is that true?

16 FEMALE PARTICIPANT: Yes.

17 MALE PARTICIPANT: Yes. I didn't see that  
18 email.

19 FEMALE PARTICIPANT: I heard it.

20 MALE PARTICIPANT: Okay.

21 FEMALE PARTICIPANT: So, I think we can  
22 get you something on that.

23 MALE PARTICIPANT: Okay.

24 FEMALE PARTICIPANT: We're going to need  
25 to -- when we stay on the line, we'll talk to the

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1 consortium and the rest of the group on that as well.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: This is Antonio Zoulas  
4 (phonetic). I'm just wondering, is it -- am I missing  
5 something, or are we going to state the obvious, or is  
6 this something that I'm -- we're missing here? What  
7 exactly are they looking for?

8 MALE PARTICIPANT: Well, I don't know  
9 about stating the obvious. No, I don't think it's  
10 obvious, because there's nothing that's been obvious.  
11 I think there's -- there's no hidden agenda.

12 MALE PARTICIPANT: I mean --

13 MALE PARTICIPANT: (b)(5)

14 (b)(5)

15  
16  
17  
18  
19  
20 MALE PARTICIPANT: I think you're sounding  
21 like that, but I'm not sure it's quite as obvious as  
22 that because, you know, --

23 MALE PARTICIPANT: What -- what  
24 constitutes each of those, you know, what -- flooded  
25 to this point, temperature of this, you know --

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1 MALE PARTICIPANT: Okay. So I --

2 MALE PARTICIPANT: Simply wakening and  
3 breathe a sigh of relief that they're out of the  
4 unstable condition and into a point where there aren't  
5 actually going to be another large energetic release  
6 potential.

7 (b)(5)

10 MALE PARTICIPANT: Right.

11 MALE PARTICIPANT: Maybe there's some  
12 interim step where (b)(5)

13 (b)(5)

14 MALE PARTICIPANT: Yes. (b)(5)

15 (b)(5)

16  
17 So we've got to --

18 MALE PARTICIPANT: We've got to think --

19 MALE PARTICIPANT: (Rudy) Hey, Antonio.  
20 This is Rudy.

21 MALE PARTICIPANT: Hey, Rudy. What's up?

22 MALE PARTICIPANT: Hey, don't forget the  
23 long -- don't forget the stable power source for that  
24 final thing you're going to talk about. You know, you  
25 don't want them to be quasistable and then they lose

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1 off-site power and it all goes away.

2 MALE PARTICIPANT: I got you. I got you.  
3 Okay.

4 FEMALE PARTICIPANT: Okay.

5 MALE PARTICIPANT: All right. Anything  
6 else?

7 MALE PARTICIPANT: Do you have some site  
8 team questions for us, from the consortium?

9 FEMALE PARTICIPANT: Oh, well -- this is  
10 RST. Just as a head's-up, because we did send you a  
11 document this evening as well. It's not a high  
12 priority or it may be, but products or methods for  
13 securing a water pool leak.

14 It was a document that came out of, I  
15 believe, Naval Reactors. We sent it on to you. We --  
16 if you have -- we wanted to know if you needed any  
17 follow-up or questions or comments or if you can just  
18 run with it. If you want to share it, that's fine.

19 MALE PARTICIPANT: Is that document to go  
20 to the Japanese?

21 MALE PARTICIPANT: That's the first I  
22 heard of this. Is this something that was unsolicited  
23 -- which is okay, but I see -- I see an email sent  
24 12:49 p.m. our time.

25 "This Naval Reactors document has been

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1 sent to the industry consortium for a discussion  
2 during this 0300 phone call."

3 Does it mean it's a final document?

4 MALE PARTICIPANT: No.

5 FEMALE PARTICIPANT: I will -- yes, I  
6 believe it is. It's -- it was just suggestions for  
7 securing fuel pool -- or pool leaks. We want to know  
8 if there were any comments or questions on that,  
9 otherwise we were not going to really pursue that  
10 further unless you needed to share that with the  
11 people you're with.

12 MALE PARTICIPANT: Oh, this is not -- is  
13 this for the trench? Is this the big ducting leak, or  
14 is this for a spent fuel pool?

15 FEMALE PARTICIPANT: I thought it was for  
16 the trench, but Naval Reactors is on the phone, so  
17 they can answer.

18 MALE PARTICIPANT: Oh, it's not the spent  
19 fuel pool? Then, it's the trench where we have the  
20 outfall to the ocean?

21 MALE PARTICIPANT: I -- let's say -- this  
22 is Naval Reactors. I haven't -- I really have only  
23 briefly looked at the paper, but I think it's our best  
24 understanding of how you might contain leaks in a  
25 water pool, period.

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1 MALE PARTICIPANT: This is -- so all these  
2 things can be put into a spent fuel pool, with spent  
3 fuel assemblies radiating heat and stuff and they'll  
4 work in that environment?

5 MALE PARTICIPANT: Well, I'll tell you  
6 what. Why don't we take a look at it, then we'll  
7 provide comments to the RST.

8 MALE PARTICIPANT: We appreciate that. I  
9 haven't looked at it yet.

10 FEMALE PARTICIPANT: All right. That's  
11 all we have.

12 MALE PARTICIPANT: Okay. Then I think  
13 we'll sign off and let you guys stay on.

14 FEMALE PARTICIPANT: All right. Thanks.

15 MALE PARTICIPANT: Uh-huh. Bye.

16 FEMALE PARTICIPANT: Bye. Okay.

17 MALE PARTICIPANT: All right.

18 FEMALE PARTICIPANT: Based on that  
19 discussion, you want to talk at all about the pending  
20 product?

21 MALE PARTICIPANT: Yes. I see we have --  
22 we have three pending products. I think we ought to  
23 prioritize them because I'm afraid that we're starting  
24 to get to the point where we think all three of them  
25 are going to be good to go tomorrow and I know that

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1 ours, it's all really the same group of people. It's  
2 the same team.

3 Is there a chance we could just talk about  
4 -- make sure we're all in the same page of the three  
5 products that we have out, and maybe which one we  
6 should try first, second and third?

7 FEMALE PARTICIPANT: Sounds good.

8 MALE PARTICIPANT: Okay. We have the --  
9 that spent fuel pool recovery, which was the last one  
10 that Jack brought up. We said that that was Tuesday,  
11 so I think that would be the third priority. Does  
12 everyone agree with that?

13 FEMALE PARTICIPANT: Correct.

14 MALE PARTICIPANT: Okay. And then we have  
15 the -- the Elmo -- or the -- let's call it the Option  
16 B, which Naval Reactors provided some comments, and  
17 the RST incorporated those comments and reformatting,  
18 and we are in the process of reviewing it.

19 I have a couple of questions already.  
20 That seems like that is probably number two, and then  
21 these questions regarding the hydrogen, it has some  
22 sort of a sense of urgency by TEPCO. That -- that  
23 would be number one. Are you in agreement with that?

24 FEMALE PARTICIPANT: Yes, I am.

25 MALE PARTICIPANT: Okay. Good. So we'll

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1 get started on the -- on the hydrogen questions with  
2 our team at six o'clock, and this -- although this one  
3 would be the second one, I have a couple of questions  
4 on the reformatting and the Option B paper.

5 FEMALE PARTICIPANT: Okay. Well, good.  
6 We have the -- all the principals associated with that  
7 paper here. So --

8 MALE PARTICIPANT: Under capital I, one  
9 hydrogen control in inerting, the first dash or the  
10 first bullet says, "Maintain temperature, 150 to 350  
11 degrees C." I think we ought to specify exactly what  
12 temperature we're talking about.

13 Is that bottom head, feedwater nozzle,  
14 drywell temperature? What is that, specifically?

15 FEMALE PARTICIPANT: I think that's  
16 supposed to be metal temperature. So you want me to  
17 put "bottom head," or -- I think it's supposed to be  
18 "metal temperature." So correct me if I'm wrong.

19 MALE PARTICIPANT: That would make sense.  
20 And it's -- 150 is closer to the bottom head and 350  
21 is closer to the feedwater nozzles. Maybe we do want  
22 to incorporate both. So maybe we should just add the  
23 words, "RPV metal temperature."

24 FEMALE PARTICIPANT: All right. I have  
25 got "Maintain RPV metal temperature in a range of 150

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1 to 350 degrees Celsius, which keeps steam in  
2 containment."

3 MALE PARTICIPANT: Yes. That would be  
4 perfect. Thank you.

5 And then the last bullet on that one is  
6 "Avoid (indiscernible, possibly "conducting") the  
7 primary containment in order to minimize airborne  
8 releases."

9 I don't think that that ought to be  
10 included as an action. This whole paper is premised  
11 on the fact that they may not want to vent the  
12 containment, but we still are holding by with that is  
13 what our priority is in our assessment that we've  
14 provided.

15 So, to state that it's an action to be  
16 taken, "Don't do it" just seems kind of contrary to  
17 that.

18 FEMALE PARTICIPANT: Deleted. I have  
19 deleted it.

20 MALE PARTICIPANT: Okay. Thanks. And  
21 that was my only comment so far, although I haven't  
22 finished the whole document.

23 Oh, in the formatter, the paragraph, the  
24 second paragraph after the bullet, it says, "The  
25 purpose is to address those additional measures which

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1 may be taken."

2 I thought we might want to say "The  
3 purpose of the paper is to prevent -- or is to present  
4 or provide additional measures which may be taken," as  
5 opposed to address them as if they're already out  
6 there.

7 FEMALE PARTICIPANT: All right. I'm going  
8 to put "The purpose is to present those additional  
9 measures."

10 MALE PARTICIPANT: Yes. Okay. I'm good  
11 with that. Thank you.

12 FEMALE PARTICIPANT: Does anybody else  
13 have comments?

14 MALE PARTICIPANT: Okay. I'll finish my  
15 review and send it on to you within an hour.

16 FEMALE PARTICIPANT: All right. One of  
17 the things I think that Eva alluded to earlier on with  
18 respect to this paper that I'd like everyone to pay  
19 particular attention to is, we're looking at -- we  
20 have Item I -- Roman numeral I -- I'm sorry. Roman  
21 numeral I, II and III.

22 And we have time frames on there and, you  
23 know, I'm -- I'm not sure what we're trying to get at  
24 with those time frames. And then we have things that  
25 I think we find to be more of a priority than others,

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1 but I just want you to pay careful attention to them.,  
2 items that are listed under those, and then give your  
3 best assessment in terms of are we trying to indicate  
4 a priority, a sequence of events or a time line? What  
5 is the goal of those time frames?

6 And you don't have to answer that now, but  
7 as you're providing comments, I'd like to hear back on  
8 them.

9 MALE PARTICIPANT: Okay. Got it. Anyway,  
10 this (indiscernible, possibly "rating") at INPO, I  
11 don't really have anything else. I think we have our  
12 marching orders with these three different documents.

13 FEMALE PARTICIPANT: Okay. All right. So  
14 the next call is at -- what is it, eleven a.m.  
15 Eastern?

16 FEMALE PARTICIPANT: That's correct.

17 MALE PARTICIPANT: Yes, ma'am.

18 FEMALE PARTICIPANT: All right. In the  
19 meantime, though, as soon as you can get something on  
20 that, the hydrogen questions, we'll have people here  
21 and we'll be working on talking through our channels  
22 in terms of level of concurrence needed on that.

23 MALE PARTICIPANT: Okay. Thank you.

24 FEMALE PARTICIPANT: Oh. Oh, thank you.  
25 One other item. I'm changing topics for the rest of

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1 the crew on the phone.

2 This question of the stability assessment,  
3 and a US Government position on that. Where are you  
4 on -- with respect to those issues?

5 MALE PARTICIPANT: I was quiet on that  
6 because I certainly remember it, but I have no idea  
7 what we're doing with that. So, I'll find out.

8 FEMALE PARTICIPANT: I'm starting to think  
9 that -- I think I heard from the team that they had  
10 written an email or a documented this way. I'd like  
11 to sort of take an action and start to work on this.

12 It's a sort of an odd place to be in, to  
13 be agreeing with or not agreeing with their stability  
14 criteria, but we're going to have to move forward and  
15 give it our best shot based on what we know.

16 So, we may take an action to at least  
17 start generating some kind of discussion or criteria  
18 associated with this so that, at the next call, either  
19 we can send it out to you guys.

20 You can start looking at it. It's not --  
21 not our pri-one activity, but I don't want it to fall  
22 off our work activity. So, I'm going to try and  
23 (indiscernible, possibly "for this step"), and develop  
24 a starting talking point for this stability criteria  
25 and see where we can go.

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1 MALE PARTICIPANT: Okay. Thanks. I think  
2 that's the right course of action.

3 FEMALE PARTICIPANT: Okay. Anything else?

4 MALE PARTICIPANT: Nothing here.

5 FEMALE PARTICIPANT: All right. Well,  
6 we're going to get to work as well.

7 MALE PARTICIPANT: All right. Thank you.

8 FEMALE PARTICIPANT: Thanks. Talk to you  
9 later.

10 MALE PARTICIPANT: All right. Bye.

11 FEMALE PARTICIPANT: Bye.  
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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Operations Officer. Stand by for Roster playback.

OPERATOR: There are currently eleven participants in your conference. The following people are in the conference:

RICK NIELSON (phonetic): Rick Nielson, INPO.

BILL WEBSTER: Bill Webster at INPO.

MALE PARTICIPANT: (Inaudible) at INPO.

RON SOUTHERN: Ron Southern, Naval Reactors.

MIKE LEWIS: Mike Lewis, PACOM DMT.

GARY WALTER (phonetic): Gary Walter (phonetic), INPO.

MALE PARTICIPANT: Industry Support Team, L.J. Bart (phonetic), Tokyo.

MALE PARTICIPANT: NRC Japan Team.

JAY TILDON (phonetic): Jay Tildon (phonetic), NNSA BOE.

OPERATOR: Roster playback is complete.

CINDY CARPENTER: Good evening, everyone. I'm Cindy Carpenter from the NRC and I'm the ET director this evening.

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1           So, the first thing, I just want to  
2 welcome you all and we've just gone through the roll  
3 call. And the next thing we want to do with the  
4 agenda is continue discussing the organizational  
5 issues, roles and responsibilities.

6           Is there anything additional from anyone  
7 on the call that they'd like to add to that second  
8 point in time?

9           (No response.)

10          CINDY CARPENTER: All right. Hearing no  
11 feedback on that one. There was a meeting today with  
12 the Department -- meeting today with the deputies,  
13 and I understand that the Department of Energy is  
14 going to take the lead for technical support of the  
15 Japan effort. So I pass that along to you all.

16          Okay. Then the next item on the agenda is  
17 the report on the status of material requests.

18          BILL WEBSTER: Hey, Cindy, this is Bill  
19 Webster at INPO.

20          CINDY CARPENTER: Hey, Bill.

21          BILL WEBSTER: Hey, is -- do we have a  
22 name as to who would have the lead at the Department  
23 of Energy for that?

24          CINDY CARPENTER: I don't have that right  
25 at this moment in time. Maybe we can see if we can

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1 find that and get that back to you.

2 BILL WEBSTER: That would be very helpful  
3 if -- if you could do that or have somebody do that.

4 CINDY CARPENTER: Okay. We'll make that  
5 as an action item, then. Okay.

6 ELEANOR CAFFEY (phonetic): This is  
7 Eleanor Caffey (phonetic) with the Department of  
8 Energy. I might have some information that's relevant  
9 to this, and it's a follow-on from a discussion that  
10 we had last night about an action that was assigned to  
11 DOE at the Principals' Committee Meeting.

12 CINDY CARPENTER: Okay.

13 ELEANOR CAFFEY: Yes. So I believe last  
14 night it was that DOE would lead coordination of -- of  
15 establishing and maintaining a database of  
16 capabilities.

17 And I sought clarification today, and I  
18 think what I'm -- what I received in terms of  
19 clarification might be consistent with what you stated  
20 in terms of DOE taking the lead, although I hadn't  
21 heard it stated that way.

22 What DOE was tasked to do on Friday was to  
23 develop a process for vetting requests from the  
24 government of Japan, and that process is going to be  
25 set up to ensure that there's interagency coordination

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1 for requests and that requests are properly validated.

2 And so, DOE did take a commitment to do  
3 that in terms of managing that process for vetting.

4 CINDY CARPENTER: Okay.

5 ELEANOR CAFFEY: And -- and so there is a  
6 process that's been drafted and it's currently being  
7 circulated within the Department of Energy for review.

8 And, once that product has been vetted internal to  
9 the department, it's going to go out for interagency  
10 comment.

11 MALE PARTICIPANT: Cathy, when do you  
12 expect that might happen?

13 FEMALE PARTICIPANT: I think -- my guess  
14 would be that there is going to be something to  
15 circulate tomorrow. I know that they were trying to  
16 get comments today within the department.

17 So, I don't have a firm date for  
18 interagency circulation, but I imagine it's -- they're  
19 still looking at a pretty rapid turnaround.

20 MALE PARTICIPANT: Okay.

21 JAY TILDON: Cathy, this is Jay.  
22 Everyone, this is Jay Tildon. I was in the -- she's  
23 got it right.

24 Basically, this is not trying to upturn  
25 what's already been going on. The embassy -- the

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1 embassy team and the crisis management team with the  
2 few Energy and Nuc folks that we have over there now,  
3 NRC, you know, all the folks that are there, still  
4 continue to gather the actions and go through and try  
5 to make sure that (b)(5)

6 (b)(5)  
7

8 And then, as Cathy was mentioning, DOE is  
9 developing a process by which it takes those actions  
10 back here and tries to go through an interagency  
11 process to make sure this makes sense, that working  
12 with this venue right here, make sure that there  
13 really isn't other ways to do it besides, you know,  
14 maybe going commercial vice us providing something,  
15 stuff like that.

16 So, I don't think you're going to see a  
17 dramatic change when you hear that. So, just flat-out  
18 saying DOE is taking the lead did sound a little --  
19 maybe a little overstated, if you will.

20 But when it comes to validating technical  
21 requirements that, indeed, is what I think the  
22 deputies want us to do.

23 FEMALE PARTICIPANT: Hey. Thank you for  
24 that clarification.

25 FEMALE PARTICIPANT: Hi. Anything else on

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1 that?

2 (No response.)

3 FEMALE PARTICIPANT: Okay. Then I guess  
4 the next step would be to go through the list of  
5 items, action items, and to talk about each of those  
6 that are still open. All right. So we'll go ahead,  
7 then, and start with that.

8 The first one is to provide radiation  
9 monitors and survey meters. And so what's the status  
10 on that, please?

11 RICK NIELSON: Yes. This is Rick Nielson.  
12 Good evening, all. We've made a little bit of  
13 progress today in terms of the utilities. All three  
14 of them involved have agreed to (inaudible) their own,  
15 paying for the expenses of shipping. So, that's good.

16 San Onofre is the -- probably the first  
17 one that will ship. There is an aspect that we need  
18 some help on, and that -- as San Onofre was preparing  
19 to ship this, they learned that there is a duty  
20 imposed on their shipment, imposed by the -- by Japan,  
21 and since this is a relief effort, they are inquiring  
22 as to whether they can get a waiver for that.

23 So that -- that could require some  
24 diplomatic assistance, in that the duty imposed is  
25 probably -- highly desirable to get some help in that

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1 area.

2 FEMALE PARTICIPANT: Okay. Anything else  
3 on that one?

4 RICK NIELSON: No. If we could just get a  
5 point of contact so that we could have the three  
6 utilities that are shipping deal directly with the  
7 point of contact.

8 GARY WALTER: Yes. This is Gary Walter  
9 with INPO. I'm under the understanding that the USA,  
10 Bill Berger (phonetic) is the contact. Is that right?  
11 Does anybody know?

12 MALE PARTICIPANT: I believe that would be  
13 a good place to start.

14 GARY WALTER: The other thing -- the other  
15 thing to add onto that is, I understand that South  
16 Texas is waiting on a certificate from Japan because  
17 some of the material is radioactive and so they're  
18 waiting for that -- that certificate that they can  
19 receive radioactive material.

20 FEMALE PARTICIPANT: Okay. Anything else  
21 on that?

22 RICK NIELSON: (Inaudible) would just --  
23 we'll work with Bill Berger, check with Bill Berger on  
24 that, but we'll need to be resolved before we --  
25 either a yes or a no before we will proceed.

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1 FEMALE PARTICIPANT: Okay. All right.  
2 The next one is the conduct of the simulation by the  
3 rad (phonetic) infusion model. We have (inaudible)  
4 for that?

5 RON SHERRY (phonetic): This is Ron Sherry  
6 (phonetic) in Tokyo. Anyone from DOE Headquarters  
7 want to take that, or shall I go?

8 FEMALE PARTICIPANT: Why don't you go  
9 ahead, Ron.

10 MALE PARTICIPANT: Yes. I wish -- Ron, I  
11 wish I could answer this one. This is one that I --  
12 to be honest, I have not gotten down to the nuclear  
13 incidents in (indiscernible, possibly "mods") today.  
14 I was just overwhelmed with -- to find out exactly  
15 what the hang-up is. So, go ahead from your end and  
16 help out --

17 RON SHERRY: All right. Well, first of  
18 all there isn't a hang-up. With respect to the  
19 simulation by radiation -- or at least the language I  
20 have, conduction relation with radiation infusion  
21 model, compared with speeding (phonetic) data, the DOE  
22 is the lead.

23 We are working primarily with the Nuclear  
24 Safety Commission as well as with other Japanese  
25 ministries. We are -- as indicated in a different

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1 line, we're providing data on a daily basis from our  
2 aerial monitoring, aerial measurement survey system,  
3 as well as ground measurements that we're taking, and  
4 have been taking since the 17th of March.

5 The Japanese are, of course, sharing  
6 information and data from a wide variety of monitoring  
7 stations that are maintained by several ministries,  
8 both near the site, as well as off-site.

9 We had a very good meeting yesterday with  
10 the Nuclear Safety Commission and Japanese ministries  
11 to establish a process by which we will be using  
12 Japanese data in US simulations and NARAC runs, and  
13 the Japanese will be using our data in their speedy  
14 (phonetic) simulations.

15 So this collaboration, which is, I think,  
16 becoming very -- truly a collaboration is going quite  
17 well. This is not -- I stress "not" dealing with any  
18 hypothetical models of possible worst case scenarios  
19 or anything like that.

20 This is using real data to plug into our  
21 model to compare how our simulations would look.

22 So, that's a lot, but I wanted to at least  
23 explain that to the group. I hope it was clear, and  
24 we'll be happy to provide a -- a more precise status.

25 In fact, the spreadsheet which the embassy is

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1 developing on project status, and which we shared -- a  
2 draft of which we shared with the Japanese interagency  
3 last night has -- has the most up-to-date information.  
4

5 If it's not in the spreadsheet that this  
6 conference call is using, then I think, again, the  
7 goal is to merge all of these spreadsheets and the  
8 status information so that, sooner rather than later,  
9 we'll all be working off the same sheet of paper. So,  
10 I hope that helps to clarify.

11 FEMALE PARTICIPANT: Okay. Thank you.  
12 Anything else on that one?

13 (No response.)

14 FEMALE PARTICIPANT: All right. The next  
15 one (inaudible) to renew the survey conducted to  
16 (inaudible) projected. I think it's DOE.

17 MALE PARTICIPANT: Yes. And my  
18 understanding is that's still a correct status. I  
19 believe the -- we were hand-carrying two into the  
20 country tomorrow, and I believe there's two to four,  
21 and I haven't got determination yet of how many will  
22 be shipped also this week, so that's all still good.

23 FEMALE PARTICIPANT: Good. Thank you.  
24 All right. The next one is the use of radiation  
25 monitoring devices on the ground. That's DOE.

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1 MALE PARTICIPANT: Oh, I don't think I  
2 have an update since last night, which is they're  
3 still evaluating all the options into a response to a  
4 cabinet office science advisor to the prime minister,  
5 and I don't exactly know if anything's changed in 24  
6 hours.

7 FEMALE PARTICIPANT: Okay. All right.  
8 Thank you. The next one is the use of robotic devices  
9 for monitoring.

10 MALE PARTICIPANT: I also -- we also have  
11 -- so, Ron, so you -- they've also been video-taping  
12 each of the pieces of equipment. That way, they can  
13 describe, so when it gets there, there will be a video  
14 tape. Now, it would need to be translated, of course.

15 I have not received the pdf of the  
16 instructions which we wanted to send in advance.  
17 We're supposed to be getting them this evening, and  
18 we'll shoot them over to you, Ron. That way they can  
19 start transmitting those as well.

20 We have not arrived at a decision about  
21 sending experts. Everyone seems to think that if the  
22 government of Japan really needs it, we'll send them.

23 At the same time, the robotics are very similar to  
24 the kinetics, or they are identical to the kinetic  
25 ones that are there already.

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1 So, do you have any insights on that, Ron?

2 MALE PARTICIPANT: Yes. And I sent an  
3 email late last night -- at least I think I did. It  
4 was late. The -- after the cabinet meeting last  
5 night, I talked to some of the medi (phonetic)  
6 officials who told me that TEPCO has been in touch  
7 with Kinetics Japan regarding training. I do not know  
8 whether any training has begun yet, so I need to  
9 follow up on that.

10 And the -- but otherwise, I think they're  
11 awaiting the shipments and I think, as soon as we can  
12 get the manifest, the description of the -- the  
13 specific description of the items that will be in the  
14 shipment, then I'll provide that in advance, along  
15 with the instructions that you referred to, Jay.

16 I was aware that the video-taping that was  
17 being done. That's great. I think -- I also agree  
18 that -- that the need to send any experts over,  
19 perhaps one for the robot and one for the cameras is  
20 to be determined, but it would be useful for us to  
21 have already identified them and have them tee'd up  
22 with, you know, with a bag pack if -- in the event  
23 that they -- they did need to get on a plane on short  
24 notice.

25 MALE PARTICIPANT: So I believe we have

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1       them identified and I told them to go ahead and put  
2       everything into the foreign travel management system.

3               MALE PARTICIPANT:   Okay.

4               MALE PARTICIPANT:   And start the country  
5       clearance cable process without executing.  So I think  
6       we are as refined (phonetic) as we're -- as we can be.

7               MALE PARTICIPANT:   Okay.  Great.  Thank  
8       you.

9               FEMALE PARTICIPANT:  Anything else on that  
10       item?

11              (No response.)

12              FEMALE PARTICIPANT:  All right.  The next  
13       one is the use of extinguishants, cooling, nitrogen,  
14       perhaps.  I think that's the site team.

15              MALE PARTICIPANT:   The site team doesn't  
16       have anything new on that.  At the cabinet meeting  
17       last night we provided the list that we had to the  
18       government of Japan and I think everybody agreed that  
19       we need to go through and scrub the list so we can  
20       ensure that we have actionable items.

21              And, as we go through and work through  
22       that review process, we should obtain further  
23       clarification on the specific item that's needed by  
24       the government of Japan.

25              FEMALE PARTICIPANT:  Thank you.  All

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1 right. The next one is the temporary holding tanks.

2 FEMALE PARTICIPANT: I've got some  
3 proposed restructuring of these tasks. From the  
4 discussion last night, it was clear that -- that  
5 there's really two activities that are being -- well,  
6 at least two that are being status'd in this Item  
7 number 30.

8 One is a continuation of the studies of  
9 options to support the water treatment, and the second  
10 are -- are actions related to specific -- delivery of  
11 specific pieces of equipment.

12 And what I would propose, just so that we  
13 have a list that -- that is a little bit more  
14 functional, is that we treat the equipment delivery as  
15 its own item. And I have some proposals on how to do  
16 that.

17 For Item number 30, I would propose to  
18 keep that focused on the concept studies. One of the  
19 early deliverables out that action was a white paper  
20 that was delivered on March 31st, and it was -- it  
21 was, as a result of that white paper that identified  
22 some equipment, that some follow-on requests for  
23 specific equipment followed.

24 The study of options is continuing. I've  
25 got a proposed mark-up to 30 that discusses that there

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1 -- that the Department of Energy is developing an  
2 options paper and we'll -- we'll be submitting that  
3 for further consideration to the embassy for the  
4 government of Japan.

5 And so, if we have Item 30 focused on the  
6 concept studies, I would propose that Item 31, which  
7 is currently related to the tanker trucks be expanded  
8 to include both the tanks and the tanker trucks,  
9 because they are really part of the same equipment  
10 delivery request.

11 And, Jay, if you have any other thoughts -  
12 - I know we didn't have a chance to discuss this in  
13 depth before this call. I did talk with Monica's team  
14 at the Department of Energy, and there were some  
15 clarifications needed for what is actually being  
16 delivered.

17 We had identified, in the previous status  
18 that there were six tanks. It's really five. It's  
19 five stainless steel tanks and the trailer which has a  
20 heavily-shielded tank within it. So, it's five  
21 stainless steel storage tanks and a -- and a tank  
22 trailer.

23 And so, what I would propose is that Item  
24 31 track the delivery of all of that equipment.

25 MALE PARTICIPANT: So, Alice, I think

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1 that's -- that's great you got it, and I did look this  
2 over. These are heavy items, so I have an inquiry in  
3 to talk with the Savannah River folks for shipping to  
4 see what options they have already discovered, because  
5 all of these are fairly substantial pieces of  
6 equipment.

7 So we're beginning to work all that right  
8 now.

9 MALE PARTICIPANT: (Ron) This is Ron in  
10 Tokyo. Just one last point, too. At the interagency  
11 meeting last night the Japanese government, Mr. Hosono  
12 (phonetic), did confirm the requests that had been  
13 made last week by TEPCO for the tanks and trailer. So  
14 that's a -- that is a Japanese deferment (phonetic)  
15 request now. No longer just a TEPCO request.

16 MALE PARTICIPANT: Right. So, Ron,  
17 (inaudible). The deal here is that each of these  
18 tanks are approximately 18,500 pounds. One is 21,000  
19 pounds, and then the truck is -- and hang onto this  
20 one, 78,000 pounds, plus an additional 7,000 pounds  
21 for the actual -- the cab that has the engine.

22 So, these are things that do not dispose  
23 themselves well to airlift.

24 MALE PARTICIPANT: Understood.

25 MALE PARTICIPANT: Hey, Bill.

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1 MALE PARTICIPANT: Yes. Hey, Ron.

2 MALE PARTICIPANT: I was just going to  
3 ask: On the shipping, what funding would cover the  
4 shipping of those items?

5 MALE PARTICIPANT: That's in the Energy  
6 Department. I'm sure that Pete Ryan (phonetic), our  
7 CFO and the EM folks are all going to figure out how  
8 we're going to cover that.

9 Obviously, the sun (phonetic) costs are  
10 really in the -- the objects themselves. But we'll  
11 have to -- we'll have to figure out the transportation  
12 piece.

13 MALE PARTICIPANT: Okay. Well, under  
14 discussion (b)(5)

15 (b)(5)

16 (b)(5)

17  
18  
19  
20  
21  
22 MALE PARTICIPANT: I think that's -- I  
23 think that's absolutely right. (b)(5)

24 (b)(5)

25  
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1 (b)(5)  
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9 (b)(5)  
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12 FEMALE PARTICIPANT: Okay. Any other  
13 discussion on these?

14 (No response.)

15 FEMALE PARTICIPANT: All right. Item 32,  
16 I see that --

17 MALE PARTICIPANT: Who's got the ball to  
18 run that one down?

19 JAY TILDON: So, Monica and her team have  
20 the tech lead. I will be the run running the ground,  
21 the logistics piece of it. It's Jay Tildon, sorry.

22 FEMALE PARTICIPANT: All right. Thank  
23 you. And 32, so there's a proposal to delete that  
24 one. So I guess the next one is 33, the energy  
25 (phonetic) expertise on temporary shielding options.

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1 ALLEN BLAMEY: This is Allen in Japan. We  
2 need to have further discussions with NISA on this  
3 list. Based upon the work that we did, we feel that,  
4 at this point in time, we don't have the specific  
5 expertise to go through and do additional shielding  
6 calculations.

7 We are not sure at this point exactly  
8 where they want to put shielding. The analysis we did  
9 was a fairly comprehensive review of the data that was  
10 available, but there's still a lot of uncertainties.

11 FEMALE PARTICIPANT: Okay. Thank you.  
12 All right. The next one is the request for rad survey  
13 meters, personal dosimetry and iodide shielding masks.

14 RICK NIELSON: Yes. A brief update on  
15 that. We did provide a preliminary list, however the  
16 other items like the radiac (phonetic) that we had  
17 specified before, we are having difficulty sourcing  
18 those, so we're going to look at substitutes for  
19 those.

20 In addition, the iodide masks are not  
21 available in the US, so we're going to look to  
22 substitute those with charcoal masks. So that's the  
23 current state of things there. We still have a little  
24 more work to do, obviously.

25 FEMALE PARTICIPANT: Okay.

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1 BILL BERGER: This is Bill Berger. We, on  
2 our HHS team, they were able to sort some of these  
3 maps, and it's a company that has a Japanese outlet  
4 here, so the cartridges seem to be available here.

5 We can get you more information on that,  
6 but we've -- that may be another item that we can  
7 purchase in Japan, or that the government, itself, can  
8 purchase.

9 RICK NIELSON: That would probably be  
10 better, Bill. We certainly are trying to source them.  
11 If we could source them locally there, that would  
12 certainly be better. That way the Japanese could  
13 purchase them, themselves.

14 BILL BERGER: Right. Just to let you  
15 know, we've set up a whole vetting system now to make  
16 sure we -- we're not, you know, spending a lot of time  
17 and wasting a lot of money getting things from the  
18 States that might be available here.

19 So we have a team here that looks at local  
20 sourcing issues, and we're also meeting with the other  
21 donors to find out if we're duplicating things. The  
22 Japanese seem to be broadcasting their requests, and  
23 there's a lot of items.

24 When we met yesterday, we took the handful  
25 of donors that they were already working on,

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1 themselves.

2 RICK NIELSON: Bill, should I send the --  
3 that list of the radiacs and other equipment that we  
4 were looking at to you? Would that be helpful?

5 BILL BERGER: Well, we could take a look  
6 at it here, yes, and we could also, once again, see if  
7 it's locally available and we can -- if we meet with  
8 the donors we could ask them if they are already on  
9 that item.

10 RICK NIELSON: Okay. Good. I will do  
11 that, then. And, one other thing. I'm not sure if  
12 you were on the line when we were discussing a  
13 previous item, but your name was mentioned in regards  
14 to shipping some radiacs that we had here.

15 They are surplus radiacs that several  
16 utilities have. They've been requested by the  
17 Japanese government, but there are duties imposed on  
18 the shipping, and we need some help getting the duty -  
19 - getting relief from the duties. Are you the right  
20 person to help with that?

21 BILL BERGER: Wait a minute. So you have  
22 the funding for the shipment, but not for the duties?  
23 Am my hearing correctly?

24 RICK NIELSON: What we've got, the  
25 utilities are -- are paying for the shipping out of

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1 their own funds, so they're not getting any help from  
2 that, but since --

3 BILL BERGER: So it's just the duties.  
4 But it is something requested by the Japanese  
5 government. Yes, I think we could work that kink out.  
6 That's just the kind of thing, the reason we meet  
7 with them here, so we can fix those things.

8 RICK NIELSON: Are you the one that would  
9 help with that, Bill?

10 BILL BERGER: Well, the whole team will  
11 work on it, but send it -- send it to the team here  
12 and we'll work it, whatever -- if it's a proper  
13 component.

14 We're going to meet with -- Mark Wahl from  
15 the embassy and I are going to meet with one of the  
16 cabinet secretary of people today, and this would be --  
17 -- this might be a specific issue we could take up with  
18 them.

19 RICK NIELSON: Okay. I've sent a note to  
20 Al Hochew (phonetic), but I'll send a note to you as  
21 well.

22 BILL BERGER: Yes. Just get me all the  
23 details and what you need to know, what you need  
24 clarified.

25 RICK NIELSON: Very good. Sure will.

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1 Thank you.

2 BILL BERGER: And, please, any of these  
3 kinds of things that come up, let us know so that we  
4 can -- we can broker it.

5 Now we're trying to set up a one-window  
6 system with the Japanese government and, you know, --  
7 and they're happy about that. (b)(5)

8 (b)(5)  
9

10 So, as some of these things come up it  
11 will help us help them structure their -- their --

12 RICK NIELSON: Very good. Thank you.

13 FEMALE PARTICIPANT: All right. Thank you  
14 for that good session. All right. The access use of  
15 robotic devices for the (inaudible) removal.

16 MALE PARTICIPANT: We have not had a  
17 follow-on meeting, and I'll look to Ron to see if  
18 they've indicated when they want to do that again.

19 Again, we're standing ready to advise  
20 them, as needed, on those topics, but we also suspect  
21 that the commercial suppliers will be the main source  
22 of those kinds of things.

23 MALE PARTICIPANT: (Ron) This is Ron in  
24 Tokyo. That's correct. In fact, last week the  
25 Japanese, I believe it was on March 28th, the Japanese

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1 actually withdrew the request for actual equipment,  
2 indicating that they would like to have our advice on  
3 shielding.

4 On the last conference call, we indicated  
5 that we needed to have some more information from  
6 TEPCO regarding the equipment, how it will be used, et  
7 cetera.

8 Also, we need more information about the  
9 actual dose levels at the site. TEPCO told me last  
10 night that they do have some additional information  
11 that they will provide soon, that our experts should  
12 be able to use in -- in formulating some -- some  
13 technical advice on the shielding.

14 MALE PARTICIPANT: So then, Ron and Al,  
15 I'll go ahead and modify this and we'll send it in.  
16 We're just going to change it from "Use of robotic  
17 devices" to "advice concerning shielding of robotic  
18 devices."

19 MALE PARTICIPANT: Okay. On the  
20 spreadsheet that we had that we -- we're trying to  
21 consolidate at the embassy. We left the action as-is,  
22 but we basically just clarified in the status comments  
23 that -- that the actual offer had changed.

24 We are trying not to change the action  
25 items themselves too much insofar as these were -- the

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1 request had come from the Japanese, but we were  
2 indicating in the status updates how they -- how the  
3 request might have evolved.

4 When we get the Japanese government -- the  
5 Japanese government's comments on the spreadsheet that  
6 we gave them last night, well then, I -- you know, we  
7 may see some -- some further changes in the -- in the  
8 action items, themselves.

9 MALE PARTICIPANT: All right. So I'll  
10 just keep it into -- into the comment section, not  
11 changing the title.

12 MALE PARTICIPANT: Right.

13 FEMALE PARTICIPANT: Okay. We have come  
14 to the end of the open items. Are there any new  
15 actions, or are there any new issues that we should  
16 discuss?

17 MALE PARTICIPANT: I have a question.  
18 And, probably, Jay, you can deal with this. You know,  
19 the -- (b)(5)

20 (b)(5)

21  
22  
23 How are we treating any of these sorts of  
24 things?

25 MALE PARTICIPANT: That's a really good

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1 question, because the (b)(5)

2 (b)(5)

3  
4  
5 So, I will work, maybe, with Steve  
6 Schneider and some of the folks down at Savannah River  
7 to better understand it.

8 I had an email -- I do have a contact  
9 number which is an email, but it's an email to the  
10 Pusmeister (phonetic) America guy. Apparently they  
11 went through Pusmeister. Apparently they asked --  
12 because they were -- as you know, they are already  
13 utilizing several Pusmeister pieces of equipment.

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: And I think that that's  
16 how they got -- that's how they got directed to  
17 Ashmoore (phonetic) Concrete and Construction.

18 MALE PARTICIPANT: Right.

19 MALE PARTICIPANT: Pusmeister basically  
20 looked at all the different major concrete pumps that  
21 they had and said, "Here are the three or four  
22 largest." And my understanding is two of those were  
23 released.

24 I don't know where the other one is coming  
25 from, but I do know the one was coming out of our

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1 Savannah River site. It was being used on our MOX  
2 (phonetic) facility.

3 MALE PARTICIPANT: Right.

4 MALE PARTICIPANT: And they're going to  
5 end up using work-around pumps. So we had to release  
6 it so we were officially leasing it.

7 MALE PARTICIPANT: Right.

8 MALE PARTICIPANT: I didn't know about it  
9 until you all found out about it when I sent the note  
10 about the CNN report. So --

11 MALE PARTICIPANT: Right.

12 MALE PARTICIPANT: So hopefully, we're a  
13 little more wired-up here in the building. So --

14 MALE PARTICIPANT: Well, can I ask a  
15 question? (b)(5)

16 (b)(5)

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24 (b)(5)

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1 MALE PARTICIPANT: Okay. Well, that's  
2 good. I just -- everybody -- you know more about your  
3 authority than I do but, once again, one of our ideas  
4 was (b)(5)

5 (b)(5)  
6  
7  
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15 (b)(5)

16 MALE PARTICIPANT: Yes. Now I think we're  
17 all straight on that. I know that in our paperwork  
18 that we've done, we've always -- (b)(5)

19 (b)(5)  
20  
21  
22

23 That way it shows that it's kind of a  
24 government-to-government transaction, if you will, so  
25 --

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1 MALE PARTICIPANT: Terrific. Great. Yes.  
2 You guys are way ahead of the curve. Thanks.

3 MALE PARTICIPANT: So when I find out more  
4 info on this -- because I now have that on my back, I  
5 will let you guys know at the next conference call.

6 FEMALE PARTICIPANT: Any other issues or  
7 other new actions that we should put down?

8 LIEUTENANT COL. MESEROFF (phonetic): Yes.  
9 Excuse me. This is Lieutenant Colonel Meseroff  
10 (phonetic) at PACOM. Apologize. We joined a little  
11 late, but for Item number one, I have NRC team working  
12 with USAID on this shipment for the three items,  
13 specifically -- or the last one being the hand and  
14 foot friskers. Is that still accurate?

15 RICK NIELSON: What's accurate is that the  
16 utilities are going to be paying for the shipping. Is  
17 there a new development here that we need to know  
18 about?

19 MALE PARTICIPANT: Yes. I think the  
20 discussion we had earlier, Rick, really two points.  
21 Point number one, on -- I believe it was the San  
22 Onofre shipment, there was a duty issue with that,  
23 that Bill is going to take that to the meeting today.

24 And then the second, I think, the South  
25 Texas project, it sounded like they had an issue with

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1 some contaminated equipment, or some radioactive  
2 equipment that they were going to be shipping in.

3 RICK NIELSON: That's right. So since  
4 there is -- since there is that contamination, there's  
5 -- I mean, there's a local requirement, a domestic  
6 requirement that the facility that it's being shipped  
7 to is licensed.

8 So we're -- the question is: Is that a  
9 requirement also before we ship this out of country?  
10 So that it's more of a question than -- than under a  
11 requirement.

12 MALE PARTICIPANT: Okay. So do you need  
13 support from us or is the licensee taking care of  
14 that?

15 RICK NIELSON: Need your help in that, to  
16 answer that question.

17 MALE PARTICIPANT: Okay. And then the  
18 last item, specifically the items coming in from  
19 Bruce, has all the shipping been arranged on that?

20 RICK NIELSON: That is being looked into.  
21 That's being sent by sea because that was by far the  
22 least expensive way to -- to ship this. It would have  
23 been substantially expensive if it was an air  
24 shipment, so it's going to be going by sea.

25 MALE PARTICIPANT: And do you have an

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1 estimated time of arrival on that?

2 RICK NIELSON: It's 20 to 25 days from the  
3 time of shipment, so they intend to -- they should be  
4 ready to ship by Thursday. So, just add that time to  
5 that.

6 MALE PARTICIPANT: Thanks. So it's hand  
7 and foot friskers. That may be a little bit long for  
8 that. Let us talk about it here with USAID.

9 MALE PARTICIPANT: Yes. We have to go  
10 back to the Japanese government and tell them what the  
11 time frame is because, as I said, there's other donors  
12 around that may have this who may be able to do it  
13 more quickly --

14 RICK NIELSON: Right.

15 MALE PARTICIPANT: -- if we've got to send  
16 it by ship. Anyway, we need to tell them if that's --  
17 see if it's an acceptable time frame for them.

18 RICK NIELSON: Yes.

19 MALE PARTICIPANT: See if they want to do  
20 it some place else.

21 MALE PARTICIPANT: Well, yes, and then if  
22 that doesn't work, we may also want to look at  
23 alternate transportation as well.

24 MALE PARTICIPANT: Yes. Depending on  
25 whether another donor has it or not.

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1 MALE PARTICIPANT: Right. So it sounds  
2 like we'll -- we'll bring that one up today at the  
3 meeting as well, to see if we can get some feedback  
4 today, or have them get back to us within a day or so  
5 with some additional information.

6 RICK NIELSON: Okay. So that would be  
7 good. I would ask that we look at other ways of  
8 transporting this. (b)(5)

9 (b)(5)  
10  
11  
12

13 So, I would ask --

14 MALE PARTICIPANT: The Japanese may be  
15 willing to pay for it. Can you get us an estimate of  
16 what it costs to send it another route, a quicker  
17 route?

18 RICK NIELSON: We can do that. It cost  
19 about \$10,000 for them to ship it by sea, which is --  
20 which is a very good rate, and I think it was on the  
21 order of 50,000 --

22 MALE PARTICIPANT: I'm going to put you on  
23 hold for minute.

24 RICK NIELSON: -- otherwise.

25 MALE PARTICIPANT: This is industry

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1 consortium here. One thing to bear in mind that we  
2 should ask the Japanese government, and also TEPCO  
3 about.

4 It would be very helpful to them to have  
5 at least a few of those units available more quickly  
6 if they could be sent by commercial air, and then send  
7 the bulk of them by sea.

8 MALE PARTICIPANT: So, the actual cost to  
9 send them by air I heard was 50,000 estimated?

10 RICK NIELSON: I believe that's right.  
11 That's ballpark. When they found that it was -- it  
12 could be that expensive -- this is a container and a  
13 half of equipment so, you know, there's -- there's a  
14 lot of shipping volume that needs -- that needs to be  
15 available for these things.

16 But sending a couple, that would be -- by  
17 commercial air, that's probably a good way to go.  
18 That's a possibility, but -- but those are some  
19 options, that's what -- and that's what they are  
20 confronted with. And if we can work around that by  
21 any other -- by any other means, that would be good,  
22 too.

23 MALE PARTICIPANT: Okay. Rick, if you  
24 could, talk with Bruce again and verify that if they  
25 have already worked through the logistics and have

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1 options with cost, if you can send that to Bill and  
2 myself, we can then work it through the channels down  
3 here to see what would be available.

4 RICK NIELSON: Okay. That's Bill Berger  
5 and you are Ron Sherry, is that correct?

6 ALLEN BLAMEY: Allen Blamey.

7 RICK NIELSON: Allen. I'm sorry.

8 MALE PARTICIPANT: Bill -- for Bill  
9 Berger, it's wberger@usaid.gov. It's not "Bill," not  
10 "B." It's wberger, no space, no dots, no periods.

11 RICK NIELSON: Okay. So that's  
12 weberger@usaid.gov?

13 MALE PARTICIPANT: Correct.

14 RICK NIELSON: Good. Will do that one.  
15 Thank you.

16 MALE PARTICIPANT: And also, if you could  
17 send -- we talked about the duty issue with South  
18 Texas -- excuse me, with San Onofre, and the  
19 radioactive license issue with South Texas.

20 If you could provide details as well to  
21 those same email addresses, then we can take that into  
22 the meeting that's going to occur probably in a couple  
23 of hours, and at least start the ball moving with the  
24 government of Japan on those issues.

25 RICK NIELSON: Very good. And while we --

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1 while we've been talking on some of the other items  
2 here, I emailed that to Alvin Chavar (phonetic), so  
3 he's got it as well, and asked him if he would touch  
4 base with you, so that's probably on its way, as well.

5 MALE PARTICIPANT: Okay. Great. Thank  
6 you.

7 FEMALE PARTICIPANT: Are there any new --  
8 other new actions or any other items to discuss?

9 (No response.)

10 FEMALE PARTICIPANT: All right. Then,  
11 hearing none, thanks. We are done for the evening.  
12 Thank you all so much, and we'll talk to you again  
13 tomorrow evening.

14 JAY TILDON: Hey, Ron, it's Jay Tildon.  
15 I'll be in my office here for another like half an  
16 hour, if you would give me a call and ask also --

17 MALE PARTICIPANT: I'll call you.

18 MALE PARTICIPANT: All right. Thank you.

19 MALE PARTICIPANT: Thanks.  
20  
21  
22  
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**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Japan's Fukushima Daiichi ET Audio File

Docket Number: (n/a)

Location: (n/a)

Date: Tuesday, April 5, 2011

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 TUESDAY

7 APRIL 5, 2011

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(CONFERENCE CALL INITIATED)

RECORDED VOICE: Transferring. This call may be recorded. After the tone, please state your name and organization followed by the pound key.

MALE PARTICIPANT: Executive Team room.

(Pause.)

MALE PARTICIPANT: Hey, is anybody on the line? Japan team is here.

FEMALE PARTICIPANT: Good afternoon, Japan team. This is NRC Reactor Safety Team on the line.

MALE PARTICIPANT: Hi, Laura (phonetic). How are you?

FEMALE PARTICIPANT: Good. How you doing?

MALE PARTICIPANT: Not too bad. Do we have our other constituents?

FEMALE PARTICIPANT: We have GEH (phonetic) and INPO (phonetic) are on the line. Anyone else on the line?

MALE PARTICIPANT: (Inaudible).

MALE PARTICIPANT: Is that everybody, Laura?

FEMALE PARTICIPANT: Normally, Naval Reactors joins us but --

MALE PARTICIPANT: Oh, okay.

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1 FEMALE PARTICIPANT: -- I think we can get  
2 started.

3 MALE PARTICIPANT: Okay. We'll do a high  
4 level. We emailed you guys this morning, I believe,  
5 the plant status information. Well, this morning our  
6 time. It's great we're getting them in emails early  
7 in the morning, so we can ship them off and you guys  
8 can be digesting them. So we won't spend a ton of  
9 time going through it.

10 The big picture is they keep under their  
11 current status or plan to inject at minimal levels.  
12 They did not change our minimum flow rates. They did  
13 not change those in the past day. We're seeing some  
14 stabilization in some of the data points here, so it  
15 looks like there continues to be what we call a  
16 static, not a stable, condition. They added 70 tons  
17 of water to the Unit 2 spent fuel pool yesterday and  
18 70 tons to the Unit 3 spent fuel pool and plan to add  
19 150 tons to the Unit 4 spent fuel pool today.

20 The one thing we do want to draw the  
21 consortium's attention to and we've spent the last 30  
22 minutes discussing ourselves is, if you look on the  
23 page with the Unit 2 data trending for temperatures at  
24 various points on the reactor pressure vessel and the  
25 dry well and suppression chamber, we see an increasing

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1 trend on some data that came on in the last couple of  
2 days. Based on the translation we have, it's the  
3 upper skirt temperature for the support to the vessel,  
4 and it's increasing, which is causing us a little bit  
5 of concern and understanding because that's a fairly  
6 direct, somewhat, indication of the temperature that  
7 might be on the vessel itself.

8 So we wanted to get the consortium's  
9 thoughts on that. We were wondering if that's an  
10 indication we should be concerned about in trend. We  
11 asked if they had the similar indication on Units 1  
12 and 3 and didn't get a very clear answer to that.  
13 They implied we already had that data. We don't see  
14 it on the other graph, so we might go back. But, you  
15 know, we see it on Unit 2, and we're getting concerned  
16 about it. You know, their strategy is, when they see  
17 temperatures trend up, they'll increase flow. And  
18 they said they were still evaluating that trend and  
19 understanding it. So I was wondering if the  
20 consortium had any thoughts on that.

21 MALE PARTICIPANT: No thoughts on that  
22 from INPO at this point. We need a little bit more  
23 information.

24 MALE PARTICIPANT: Okay. Any particular  
25 information you think is crucial or important?

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1 MALE PARTICIPANT: (b)(4)

2 (b)(4)

3  
4  
5 MALE PARTICIPANT: We'd like any insight  
6 that you guys have.

7 MALE PARTICIPANT: I thought they had a  
8 task to evaluate whether murder is being met.

9 MALE PARTICIPANT: Is that one of the set  
10 tasks?

11 MALE PARTICIPANT: Yes.

12 FEMALE PARTICIPANT: You guys, (b)(4)

13 (b)(4)

14  
15 MALE PARTICIPANT: Well, does that account  
16 for the potential for leakage through the research  
17 field?

18 FEMALE PARTICIPANT: I believe the answer  
19 to that is yes. GE --

20 MALE PARTICIPANT: Well, and does that  
21 also account then that the make-up flow that they have  
22 may not be actually getting to the core?

23 MALE PARTICIPANT: This is Headquarters  
24 Operation (inaudible). Let me interrupt you for a  
25 second. I've got Naval Reactors coming into the

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1 conference.

2 FEMALE PARTICIPANT: Thank you.

3 MALE PARTICIPANT: You're welcome.

4 MALE PARTICIPANT: Hello, this is Dingman  
5 (phonetic) from Naval Reactors. They gave me a  
6 slightly long code here. I finally got here, though.

7 FEMALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: (b)(4)

9 (b)(4)

24 (b)(4)

25  
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1 (b)(4)

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FEMALE PARTICIPANT: (b)(4)

12

(b)(4)

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23

(b)(4)

24

MIKE SCOTT (PHONETIC): And, Laura, this

25

is Mike Scott (phonetic). We went round with them

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1 (b)(4)

9 (b)(4)

. So

10 we --

11 FEMALE PARTICIPANT: I have that --

12 MIKE SCOTT: -- were hoping for or thought  
13 we were going to be getting the status on that, based  
14 on what we talked about, you know, ten hours ago.

15 FEMALE PARTICIPANT: Yes, Mike, I have  
16 that list in front of me. In fact, I statused that  
17 and sent that back to you and everyone else on the  
18 team, and then I noticed shifts turned over, I mean on  
19 tonight also did the same. So I don't see that as one  
20 of the six. If you can point out . . .

21 MIKE SCOTT: All right. I'm looking at  
22 it. Hold on a second.

23 FEMALE PARTICIPANT: And we had statused  
24 it again on turnover --

25 MIKE SCOTT: I guess you're right. I'm

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1 looking at it, and I guess you're right. So we didn't  
2 put that on your plate. It's definitely on the INPO  
3 separate, you know, the INPO industry team's plate, no  
4 doubt about that. I'm looking here at this, and I  
5 think you're right.

6 FEMALE PARTICIPANT: Well, Mike, if you  
7 look at action item number two, it was our response to  
8 the additional measures to maximize the success of the  
9 current feed and bleed strategy. And within that  
10 document, we talk about the flow rate issue. So if  
11 you look at that, which was sent out to the team and  
12 the consortium probably around 11 p.m., Eastern  
13 Daylight for us, there is discussion there. So if you  
14 need something else in this team, just let us know and  
15 we'll turn that around for you.

16 MIKE SCOTT: All right. I'm looking here.  
17 I've got an email -- and I apologize. I've been at  
18 meetings, and I haven't had a chance to read it. So I  
19 have one, 11 p.m. your time, and I've got attachments.  
20 I guess that's the document you're referring to.

21 MALE PARTICIPANT: Yes, that's the  
22 appendix --

23 MIKE SCOTT: Okay. So you have it.

24 MALE PARTICIPANT: -- (inaudible). Yes.  
25 But I really think that what we have to do, and I've

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1 been tied up, as well, I think we have to go through,  
2 review this, and then provide feedback. And with that  
3 feedback, if INPO is looking at it, we can denote  
4 that, as well, so we do not duplicate efforts. And  
5 since they're a part of the consortium, they may be  
6 able to take the work that's already been done and  
7 discuss it in this forum, as well.

8 MIKE SCOTT: Okay. So this is review of  
9 the Elmo (phonetic) question.

10 MALE PARTICIPANT: Yes, yes. So I think  
11 what we need to do is finish our review before we  
12 leave tonight, pass that back to Headquarters with  
13 comments, so they can then pick it up. And that's  
14 where the murder discussion can occur.

15 MIKE SCOTT: Okay.

16 MALE PARTICIPANT: Does that sound  
17 reasonable, Laura?

18 FEMALE PARTICIPANT: Yes, that's good  
19 because I have that, I'm tracking that second item,  
20 and I wanted to find what closure of that item would  
21 be. So I guess we're awaiting your comments and any  
22 follow up.

23 MALE PARTICIPANT: Hey, this is Randy from  
24 INPO, and I just want to make sure that we're all  
25 reviewing the exact same version of that document

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1 because the one that most recently came out was sent  
2 at 1:24 a.m. this morning from RSP (phonetic), and it  
3 had some incorporation of comments that were  
4 subsequent to that earlier document. So I just want  
5 to make sure that the Tokyo team is reviewing the most  
6 recent one if they want to provide feedback to the  
7 RSP.

8 MIKE SCOTT: Yes, the one that the Japan  
9 team has right now shows the time and date stamp of  
10 0100 Eastern Daylight Time, Monday, April 5th, 2011.

11 MALE PARTICIPANT: That's the one.

12 MIKE SCOTT: Okay, good.

13 MALE PARTICIPANT: Monday -- Tuesday,  
14 April 5th.

15 MIKE SCOTT: Yes, that's right. Option B  
16 recommendation documents; it's that one, right?

17 MALE PARTICIPANT: Yes, Option B.

18 MIKE SCOTT: Okay. We already commented  
19 on that. Got it. But what is the most recent time  
20 and date stamp that we should be looking at?

21 MALE PARTICIPANT: I think you just agreed  
22 you have the latest --

23 MIKE SCOTT: Yes, I thought I heard  
24 somebody say --

25 MALE PARTICIPANT: It is a Tuesday.

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1 MIKE SCOTT: Okay, excellent.

2 MALE PARTICIPANT: That's the note they  
3 were making.

4 MIKE SCOTT: Okay. So we have the most  
5 recent one then. Okay. So we have that action.

6 FEMALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: And this is Randy  
8 again. I just want to confirm, and GE can amplify on  
9 this, if they choose. But we just had approximately  
10 an hour long phone call with GE engineers on the same  
11 phone with the TEPCO engineers to directly talk about  
12 those technical inputs. I can't summarize it. Most  
13 of the call was in Japanese. But GE, if you want to  
14 amplify on that, go ahead. But we are pursuing, you  
15 know, that resolution.

16 MALE PARTICIPANT: (b)(4)

17 (b)(4)  
18  
19  
20  
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23  
24  
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1 (b)(4)

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8 So GE is going to redo the calc consistent  
9 with their understanding or, you know, we're going to  
10 check the leakage assumption and redo the calc and  
11 confirm that they're consistent. Day shift will do  
12 that.

13 MALE PARTICIPANT: What about the question  
14 of whether there was water in the dry well or not?

15 (b)(4)

16  
17 MALE PARTICIPANT: (b)(4)

18 (b)(4)

19  
20  
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24  
25 MALE PARTICIPANT: So they're trending the

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1 same, and (b)(4)

2 (b)(4)

3 MALE PARTICIPANT:

(b)(4)

4 (b)(4)

5  
6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: And the fact that the  
8 (indiscernible, possibly "cams") are located just --

9 MALE PARTICIPANT: That is correct, yes.

10 MALE PARTICIPANT: -- are operating, as  
11 well.

12 MALE PARTICIPANT:

(b)(4)

13 (b)(4)

14  
15  
16 MALE PARTICIPANT: Yes. Bob Callon  
17 (phonetic) on day shift does that calculation, and  
18 I'll update him on what we discussed. And he already  
19 had planned to change the assumption for leakage based  
20 upon the data.

21 MALE PARTICIPANT: Okay.

22 MIKE SCOTT: Okay. If I understand you  
23 correctly then, based upon the discussion that you  
24 had, you believe that (b)(4)

25 (b)(4)

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1 MALE PARTICIPANT: Well, there's no,

2 (b)(4)

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6 MIKE SCOTT: Okay. And that's what I was  
7 getting at because -- let me think. If you go back to  
8 the Severe Accident Management Guidelines, don't they  
9 recommend four feet of water on the floor, and your  
10 downcomers from the dry well to the suppression pool,  
11 my gut feeling is like two feet. I remember busting  
12 my knees on those. Yes, I'm thinking two feet. So  
13 that's what I was trying to understand: (b)(4)

14 (b)(4)

15  
16 MALE PARTICIPANT: (b)(4)

17 (b)(4)

18  
19  
20 MIKE SCOTT: Okay.

21 MALE PARTICIPANT: So, yes, they should,  
22 if they were following SAMGs directly, they would  
23 still, you know, (b)(4)

24 (b)(4)

25  
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1 MIKE SCOTT: Absolutely.

2 MALE PARTICIPANT: -- injection.

3 MIKE SCOTT: I agree. I think in some of  
4 the papers I read, it said, you know, affirmatively  
5 they should have at least four feet of water in there.

6 (b)(4)

7  
8  
9  
10  
11 MALE PARTICIPANT: Yes, yes, I agree. (b)(4)

12 (b)(4)

13  
14  
15  
16 MIKE SCOTT: Okay. So it sounds like --

17 MALE PARTICIPANT: But that might be, that  
18 might be what the theoretical calculation is based  
19 upon cooling a corium (inaudible) vessel is probably  
20 what you're getting at.

21 MIKE SCOTT: Okay. So we do think that

22 (b)(4)

23  
24  
25  
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1 MALE PARTICIPANT: Correct. So for the  
2 basis of the hydrogen concentration calculation, they  
3 can assume that the full volume is available.

4 MIKE SCOTT: Okay.

5 FEMALE PARTICIPANT: All right. Anything  
6 else on that topic?

7 MIKE SCOTT: I think that takes care of  
8 item number one. And to close the loop on that then,  
9 we're going to review the Option B that came out and  
10 provide feedback in the next couple of hours.

11 FEMALE PARTICIPANT: Okay. But just so  
12 we're clear, I'm looking at this updated list of  
13 actions which was sent out at 11 p.m. to the whole  
14 team, item number one was, I thought that was the  
15 hydrogen concentration questions, and that was sent  
16 out from GEH. I believe it was a response to question  
17 398.

18 MALE PARTICIPANT: (Inaudible).

19 MALE PARTICIPANT: Yes.

20 FEMALE PARTICIPANT: So that's that  
21 document. And we consider that, we wanted your  
22 feedback, but we consider that closed.

23 MALE PARTICIPANT: I'm sorry. Which item  
24 is that?

25 FEMALE PARTICIPANT: Item number one,

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1 provide evaluation. And the description is a little  
2 bit off. It talks about differing views of flooding  
3 versus other things. But, really, it was all about  
4 the assumptions and the modeling for steam  
5 assumptions, hydrogen, and then, of course, the volume  
6 in the dry well, which I think you were just  
7 discussing.

8 MALE PARTICIPANT: Yes. Hey, Laura, this  
9 is Andy. I think that, based on what we just did with  
10 TEPCO, that entire response is now no longer needed.

11 FEMALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: That's my --

13 MIKE SCOTT: What's no longer needed?

14 MALE PARTICIPANT: (b)(4)

15 (b)(4)

16  
17  
18  
19  
20  
21  
22 FEMALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: Because (b)(4)

24 (b)(4)

25 MALE PARTICIPANT: Well, I think we're

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1 getting close, yes. I think what we're going to do is  
2 we're going to write up, Kirk (phonetic) is going to  
3 write up his understanding of what we discussed with

4 (b)(4)

5  
6  
7  
8  
9 MALE PARTICIPANT: (b)(4)

10 (b)(4)

11 MALE PARTICIPANT: Probably, yes. We may,  
12 we may.

13 MALE PARTICIPANT: Which means, (b)(4)

14 (b)(4)

15  
16 (b)(4)

Do you agree?

17 MALE PARTICIPANT: Correct, yes. That may  
18 be the case.

19 MIKE SCOTT: That's a huge change.

20 MALE PARTICIPANT: (b)(4)

21 (b)(4)

22  
23 MALE PARTICIPANT: (b)(4)

24 (b)(4)

25  
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1 going to --

2 MALE PARTICIPANT: Flinch.

3 MALE PARTICIPANT: Yes.

4 MALE PARTICIPANT: And change the  
5 flammability, and then -- yes.

6 MIKE SCOTT: Okay. (b)(4)

7 (b)(4)

8  
9 MALE PARTICIPANT: Is there any way at  
10 all, when you look at that, to do some kind of  
11 sensitivity and figure out what kind of maximum flow  
12 rate would cause a problem with suppressing the steam?

13 MALE PARTICIPANT: The first part we have  
14 to do is -- yes, surely we could think through that.

15 (b)(4)

16  
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21 MALE PARTICIPANT: I understand that, but  
22 I'm also trying to think consequence, you know.

23 (b)(4)

24  
25  
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1 (b)(4)  
2  
3

4 MALE PARTICIPANT: No, no, I think we've  
5 got to take the big picture. (b)(4)  
6

7 (b)(4)  
8  
9  
10

11 MIKE SCOTT: All right, all right. Well,  
12 let's make this --

13 MALE PARTICIPANT: That's correct.

14 MIKE SCOTT: -- (b)(4)  
15

16 (b)(4)  
17

18 MALE PARTICIPANT: I would say no.

19 MIKE SCOTT: Okay. So we now, we seem to  
20 understand that (b)(4)  
21

22 (b)(4)  
23

24 MALE PARTICIPANT: I wouldn't assume that.  
25 I don't know --

MIKE SCOTT: Well, is that a risk? That's

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1 clearly what they're worried about.

(b)(4)

2 (b)(4)

14 MALE PARTICIPANT:

(b)(4)

15 (b)(4)

18 MIKE SCOTT: I think, with those items to  
19 consider, as we move forward,

(b)(4)

20 (b)(4)

22 FEMALE PARTICIPANT: Guys, hold on just a  
23 minute. There's a lot of brainstorming going on. I  
24 think the recommendations that were given, I think,

25 (b)(4)

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1 (b)(4)

2  
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7  
8 (b)(4)

I don't want to --

9 MALE PARTICIPANT:

(b)(4)

10 (b)(4)

11  
12  
13  
14  
15 FEMALE PARTICIPANT: Right.

16 MALE PARTICIPANT: Yes, and that's why I  
17 think with where we are --

18 FEMALE PARTICIPANT: I'll talk to you all  
19 --

20 MALE PARTICIPANT: -- should stay the  
21 course with what we recommended until we finish the  
22 calculations, and then let's see what the consortium,  
23 after they look at it, let's see if there's a change  
24 in recommendation. But with where we are today, I  
25 think we stay the course with what we recommended.

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1 Does that make sense?

2 MALE PARTICIPANT: Why? Why would we not  
3 go back and ask this question again with a different  
4 situation on the ground? I mean, before, it was  
5 relatively easy to say --

6 MALE PARTICIPANT: I think we're  
7 (inaudible). But I'm saying we don't change now until  
8 the calculation is finalized.

9 MALE PARTICIPANT: Oh, all right, okay.

10 MALE PARTICIPANT: And once the  
11 calculation is finalized, and that goes back to the  
12 consortium, and they take a look at it and they make a  
13 decision. Should we, at that time, change based upon  
14 the --

15 MALE PARTICIPANT: Oh, okay.

16 MALE PARTICIPANT: (b)(4)

17 (b)(4)

18  
19  
20  
21  
22 MALE PARTICIPANT: Exactly. And I think,  
23 and I think that's where, (b)(4)

24 (b)(4)

25  
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1 back to the consortium to say here's new conditions --

2 MALE PARTICIPANT: Correct.

3 MALE PARTICIPANT: -- now what is the next  
4 recommendation?

5 MALE PARTICIPANT: Absolutely.

6 FEMALE PARTICIPANT: Okay. Hey, this is  
7 Laura. Rob, Mike, I'm not sure, the site team in  
8 general, can you guys, I'm not hearing a specific.  
9 There's a lot of discussion going on. If you need us  
10 to do something, I think, you know, we can, I'd like  
11 to hear you try and articulate if you think there's an  
12 action out of this discussion at this time or if we're  
13 on hold pending further discussion that the industry  
14 will have, INPO, GE, directly with TEPCO.

15 MALE PARTICIPANT: Yes, I think the

16 (b)(4)  
17  
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1 previously made.

2 FEMALE PARTICIPANT: Okay. Does the  
3 industry representatives concur with that assessment?

4 MALE PARTICIPANT: I got it. I don't have  
5 any problem with what he just said, but I do have a  
6 problem with all that was discussed.

7 FEMALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: (b)(4)

9 (b)(4)

10  
11  
12  
13  
14  
15  
16 MIKE SCOTT: (b)(4)

17 (b)(4)

18  
19  
20  
21  
22  
23  
24 MALE PARTICIPANT: (b)(4)

25 (b)(4)

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1 MALE PARTICIPANT: That's correct.

2 MALE PARTICIPANT: They're symptom-based  
3 procedures, and people keep trying to change them to  
4 diagnosing events and addressing events. If you want  
5 to --

6 MALE PARTICIPANT: We hear you. Yes, we  
7 hear you. No change of course right now. Finish the  
8 calculations, and it sounds like the thought is it  
9 won't change the conclusion. But let's ask the  
10 question at the end. If we reach that conclusion no  
11 change in direction, no change in direction and keep  
12 going. But we certainly understand that point.

13 (b)(4)

14 (b)(4)

25 (b)(4)

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1 (b)(4)

2 (b)(4)

13 FEMALE PARTICIPANT: Rob, when you --

14 MALE PARTICIPANT: -- underway. So we  
15 just wanted to give you a heads up on where that was  
16 so that you would know a little bit.

17 FEMALE PARTICIPANT: Rob, when you say  
18 "this path," what specifically do you mean? What  
19 path? What room? What system?

20 MALE PARTICIPANT: We don't know that.  
21 They didn't provide those details.

22 FEMALE PARTICIPANT: Okay.

23 MALE PARTICIPANT: But they are exploring  
24 that particular path. We just couldn't get into that  
25 detail.

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1 MALE PARTICIPANT: I think they just lost

2 --

3 MALE PARTICIPANT: Yes, if they needed to  
4 go on (inaudible) gas or to the reactor building. I'm  
5 not sure which one that they're going to choose.

6 FEMALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: (b)(4)

8 (b)(4)

9  
10  
11  
12  
13  
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15  
16  
17  
18  
19  
20  
21 FEMALE PARTICIPANT: Okay.

22 MALE PARTICIPANT: Do we want to go  
23 through the rest of the items on the list?

24 MALE PARTICIPANT: Yes, we do.

25 MALE PARTICIPANT: Let's go to the list,

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1 Laura, okay?

2 FEMALE PARTICIPANT: Yes. Thanks, Mike.

3 MALE PARTICIPANT: All right. So let's  
4 see here. Let me pull up the latest version of this.  
5 Updated list. We talked about item one.

6 FEMALE PARTICIPANT: Yes, we consider item  
7 one complete and, actually, (inaudible), it may be  
8 moot because of the discussion that they had tonight  
9 on that. And I don't think, I think, listening to the  
10 discussions from the past minute or so, I don't think  
11 we have an action beyond that at this point.

12 MALE PARTICIPANT: Well, this is the  
13 hydrogen piece, right?

14 FEMALE PARTICIPANT: Correct.

15 MALE PARTICIPANT: So I think that there's  
16 going to be a recalculation done by, I guess -- was it  
17 INPO?

18 MALE PARTICIPANT: GE.

19 MALE PARTICIPANT: (b)(4) a

20 (b)(4)  
21  
22  
23

24 FEMALE PARTICIPANT: Correct.

25 MALE PARTICIPANT: I guess what we'll end

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1 up with is, one, GE has done that calc, and that will  
2 be fed back to the Japanese through the industry  
3 working group. And I guess, if they could copy us so  
4 we'll know about it going into the 11 a.m. meeting  
5 tomorrow that would be good.

6 FEMALE PARTICIPANT: GE, I don't know what  
7 -- or, consortium, I don't know what your time frame  
8 is.

9 MALE PARTICIPANT: (b)(4)

10 (b)(4)  
11  
12  
13  
14

15 FEMALE PARTICIPANT: Yes, I got you, Mike.  
16 I was actually turning that over, I was asking one of  
17 the consortium members to respond.

18 MALE PARTICIPANT: Oh, okay. All right.

19 MALE PARTICIPANT: And share everything we  
20 get, and I presume GE will, too. I mean, no secrets.

21 FEMALE PARTICIPANT: Okay, good.

22 MALE PARTICIPANT: All right. Hopefully,  
23 we'll see that before our 11:00 meeting, which is like  
24 15 hours from now or something. Okay.

25 MALE PARTICIPANT: Right. Although it is

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1 a day shift guy coming in for GE so . . .

2 MALE PARTICIPANT: All right. Well, in  
3 any event, I guess we can tell them -- well, INPO will  
4 have the latest information. We can just call on  
5 them.

6 MALE PARTICIPANT: Absolutely.

7 MALE PARTICIPANT: Okay. So number two,  
8 this is the ELMO (phonetic) thing. We don't need  
9 comments. Got that one. Number three is spent fuel  
10 pool, BWR (inaudible) incorporating (inaudible) input.

11 Still working on that. The Japanese did today at the  
12 11 a.m. tell us they really are interested in seeing  
13 that document, so, you know, that's been working in  
14 somewhat a lower priority than some of the others.  
15 But it would be good, really good if we could get that  
16 out the door in a couple of days. Is that doable?

17 FEMALE PARTICIPANT: Yes, I think. I know  
18 right now, actually, what Eva's been working on  
19 tonight. So I'm not sure if they'll get it out at the  
20 end of our shift, but it should get out within the  
21 next shift or so.

22 MALE PARTICIPANT: And when you say get it  
23 out, that means with consortium agreement, right?

24 FEMALE PARTICIPANT: Well, we'll get it  
25 out to the consortium and the team --

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1 MALE PARTICIPANT: Yes, to the consortium.  
2 So when do you think it will be blast off and ready  
3 to go? What should we tell the Japanese?

4 FEMALE PARTICIPANT: Well, I think we'll  
5 receive comments, and then we'll send it out to the  
6 site team maybe, probably a few shifts. So maybe  
7 we'll say a day or so.

8 MALE PARTICIPANT: Okay. So I would, I'd  
9 like to kind of establish, if we could, a target to  
10 get it in their hands, which would, you know,  
11 obviously depend on you and on us. And how about if  
12 we say Thursday Japan time? Is that doable? That's  
13 two days. Or is that --

14 FEMALE PARTICIPANT: You know what? We  
15 can put it, it's always good to put a date on it. If  
16 we need to change that, we will. Just one question.  
17 So who's requesting this from you?

18 MALE PARTICIPANT: I don't think this was  
19 -- did this start as a Japanese request or --

20 MALE PARTICIPANT: No, this was started as  
21 our request.

22 MALE PARTICIPANT: (b)(4)

23 (b)(4)

24

25

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(b)(4)

FEMALE PARTICIPANT: Can you just tell me  
who the "we" and "they" are? (b)(4)

(b)(4)

MALE PARTICIPANT: It will go to NISA.  
And the way that I've been doing this and the way I  
assume my successor Alan (phonetic) will do this, Alan  
Blaney (phonetic), is you email us today with the  
counterpart with NISA, and then he shares it with  
TEPCO. That's the way we've been doing this. That's  
the way he wants to do it.

FEMALE PARTICIPANT: Okay.

MALE PARTICIPANT: So once you send us an  
email and say here it is, and the consortium approves  
this document, then we send it on to where we take a  
look at it. But we send it on to NASON (phonetic),

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1 our counterpart.

2 FEMALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: All right. So that's  
4 it for that one, and so let's just try to do this  
5 within, say, 48 hours from now. It's been kicking  
6 around for what? Weeks. Something like that.

7 FEMALE PARTICIPANT: Okay.

8 MALE PARTICIPANT: About a week. It fell  
9 kind of lower on the priority scale, but if we can get  
10 it out by about two days now that would be good.

11 FEMALE PARTICIPANT: Okay.

12 MALE PARTICIPANT: Item four. Let's see.  
13 You got a draft. You shared it with the consortium.  
14 It's still waiting some comments from the consortium  
15 on that.

16 FEMALE PARTICIPANT: Yes. I think we'll  
17 discuss that after, you know, as part of our post-team  
18 call.

19 MALE PARTICIPANT: Okay. And that one is,  
20 by scope, is relatively small, right? I mean, I guess  
21 it's a one-pager or something like that?

22 FEMALE PARTICIPANT: Yes, yes, one to two,  
23 yes. This is not a huge document.

24 MALE PARTICIPANT: Okay. So maybe a  
25 couple of days on that one, too, or maybe even sooner?

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1 FEMALE PARTICIPANT: Yes, I'm thinking  
2 that we'll talk about it today and, again, try to put  
3 an appropriate focus on this document in terms of what  
4 the U.S. is recommending. I need a clarification on  
5 this. You had said to me or I seen your email that  
6 said the Japanese is requesting this. Who's  
7 requesting it?

8 MALE PARTICIPANT: That would be Nei  
9 again, N-E-I. That's his last name. He is our  
10 counterpart. He is the Deputy Director General of  
11 NISA, so when we talk to you in terms of what the  
12 Japanese had requested, unless informed differently,  
13 it is through Nei, the Director General of NISA.

14 FEMALE PARTICIPANT: Okay. So it's NISA.  
15 All right. So, yes, we --

16 MALE PARTICIPANT: So moving on.

17 FEMALE PARTICIPANT: But this afternoon or  
18 at the end of this phone call with the consortium in  
19 terms of next steps on that document, and then we'll  
20 be able to circulate it.

21 MALE PARTICIPANT: Okay, good. So that  
22 one, maybe we'll get lucky and it's in within a day or  
23 something like that. Okay. Let's see. How far did I  
24 get?

25 FEMALE PARTICIPANT: Five, which is

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1 actually --

2 MALE PARTICIPANT: I'm on number five.  
3 Number five, I see that you tapped GE on this. Has GE  
4 done anything with it? Because if not, let's just  
5 drop it because I basically told them today that we  
6 didn't have information on it and that we wouldn't and  
7 that we didn't think it was crucial. So if nobody has  
8 spent effort on this, let's just drop this item.

9 MALE PARTICIPANT: Yes. We're currently  
10 tracking it. But if you say drop, consider it  
11 dropped.

12 MALE PARTICIPANT: Okay. It's dropped.  
13 Item six is the goo (phonetic) or the fixaten  
14 (phonetic) or the anti-dispersive material. Now,  
15 there are several levels of answer to this floating  
16 around. There was an answer from INPO several days  
17 ago that said don't like long-chain organics. There  
18 was another answer from INPO that I saw in my email  
19 today that says that it's really not a problem if it  
20 gets into the pool but try not to put it there. I  
21 also know that, at one point, research had been  
22 tapped, our research, NRC's research had been tapped  
23 to look into that question about the pool impact, and  
24 we promised the Japanese and, again, it would be Nei,  
25 an answer today on their fuel pool piece. I didn't

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1 have it for them and told them we'd try to get it to  
2 them soon. I see that, from this email status, that  
3 somebody has at least pinged Richard Lee (phonetic) on  
4 it. Any update on that? I guess not.

5 FEMALE PARTICIPANT: No. That's what the  
6 status was as of 11 p.m. Eastern Daylight when I came  
7 in, so we are tracking it on the path tracker and we  
8 will try and close that on day shift tomorrow.

9 MALE PARTICIPANT: Well, one way to think  
10 about this is INPO has, INPO has provided documents  
11 that says, (b)(4)

12 (b)(4)  
13  
14  
15  
16  
17  
18

19 MALE PARTICIPANT: We think it's ready to  
20 be closed real quick, like now. (b)(4)

21 (b)(4)  
22  
23  
24  
25

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(b)(4)

That little

half-page paper summarizes it up, and I don't see the need for anything else to close this.

MALE PARTICIPANT: Okay. So now you recognize that their approach to adding this material will be rather shotgun like. They're talking about either using the giraffe or -- what's the other thing?

The zebra. You know, these rigs with the long (inaudible) on them. But they're also talking about remote-controlled helicopters because of how hot it's going to be on top of the building.

(b)(4)

(b)(4)

MALE PARTICIPANT:

(b)(4)

(b)(4)

MALE PARTICIPANT:

(b)(4)

(b)(4)

MALE PARTICIPANT: That's what the analysis said.

MALE PARTICIPANT: Okay. All right. So I guess, Laura, what do you think? We could check with

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1 Richard Lee, for example, and give him that INPO  
2 evaluation and see if he wants to just say, yes, that  
3 looks good to me or not. That's one way to try to  
4 bring this to closure.

5 FEMALE PARTICIPANT: Yes. And in my view,  
6 I would concur that I don't think it's a problem to  
7 put the INPO documents in their hand. But we're just  
8 going to have Richard Lee look at those two and give  
9 us a yea or nay, and then we can close out the item.

10 MALE PARTICIPANT: So you want us to go  
11 ahead and give the INPO documents to them without  
12 waiting on that?

13 MALE PARTICIPANT: How about we give the  
14 INPO documents to our person at INPO over there and  
15 let TEPCO deal with it how they will? I know that it  
16 adds a level of complexity if it's coming from the  
17 U.S. government.

18 FEMALE PARTICIPANT: Yes.

19 MALE PARTICIPANT: You say you've already  
20 given it to the TEPCO people?

21 MALE PARTICIPANT: No, we have not.

22 MALE PARTICIPANT: Well, the other way to  
23 think about this is that if we do that, as long as we  
24 do it in the next couple of days, that will fully meet  
25 their needs because (b)(4)

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1 (b)(4)

2  
3  
4 (b)(4)

So, you know, if

5 you want to take a day or two and conjugate some more  
6 or get Richard Lee's input, I don't think any harm  
7 would be done.

8 FEMALE PARTICIPANT: Okay. Well, again, I  
9 think we're just going to, Richard has the documents.

10 As soon as we hear back from him, we'll respond to  
11 you and close the item. And if INPO provides it to  
12 their contact at TEPCO, I don't really have a problem  
13 with that.

14 MALE PARTICIPANT: You don't think we  
15 should provide it to NISA (inaudible)?

16 MALE PARTICIPANT: As Alan points out, if  
17 it's going to be given to TEPCO, we need to give it to  
18 NISA at the same time.

19 MALE PARTICIPANT: Yes, we'll just need to  
20 coordinate that.

21 MALE PARTICIPANT: So we will, what I  
22 think I hear you recommending is that we go ahead and  
23 give the INPO document to NISA for INPO.

24 FEMALE PARTICIPANT: Yes. And I'm fine if  
25 you do that. I think just let them know we're, you

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1 know, we just want to do one more or we're just having  
2 our office of research look at it. That's fine.

3 MALE PARTICIPANT: Okay, fair enough.  
4 (Inaudible.)

5 MALE PARTICIPANT: So you're going to be  
6 giving it to them tomorrow at the 11:00?

7 MALE PARTICIPANT: (Inaudible).

8 MALE PARTICIPANT: Well, we've got it.  
9 We've already got it. I forwarded it to, I think I  
10 forwarded it to you because you're the containment  
11 guy.

12 MALE PARTICIPANT: Okay. We have it, and  
13 we will provide it to NISA at 11 a.m. tomorrow. So  
14 that's it for that list, I believe.

15 FEMALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: What else do we need to  
17 talk about?

18 MALE PARTICIPANT: (Inaudible).

19 MALE PARTICIPANT: Oh, yes. The other  
20 thing was that we understood that there was a document  
21 kicking around from Naval Reactors that had some  
22 suggestions about stopping the leak that they got  
23 going into the ocean, and I can't find that in my  
24 email, if I have it. No, I guess we did get it and we  
25 sent it back and said, no, let the consortium think

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1 about this, right?

2 MALE PARTICIPANT: No, we never saw it.

3 MALE PARTICIPANT: You and I got it.

4 MALE PARTICIPANT: Yes, you and I got it.

5 MALE PARTICIPANT: Just Mike and I got it,  
6 and it came over as this. This was ready to go, and  
7 we asked the question of whether the consortium had  
8 thought off on it because we had all these different  
9 things to put in there, and we wanted to make sure  
10 everybody was in agreement before we shot a document  
11 off. And I think they took that back to consider.

12 MALE PARTICIPANT: Do you know what we're  
13 talking about on that one, Laura?

14 FEMALE PARTICIPANT: Yes, I do. I will  
15 make sure we get it out to the consortium and get a  
16 unified view.

17 ANDY LINGASELTZER (PHONETIC): Hi, Laura.  
18 This is Andy Lingaseltzer (phonetic). We commented  
19 on it and put our comments and shot it back to you, so  
20 you got ours.

21 FEMALE PARTICIPANT: Oh, okay.

22 MALE PARTICIPANT: Okay. So we'll add  
23 that. That's item seven then, okay? That replaces  
24 previous item five.

25 FEMALE PARTICIPANT: Okay.

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1 MALE PARTICIPANT: (Inaudible). So we'll  
2 have an item ten, and it's this item. What else do we  
3 got?

4 MALE PARTICIPANT: Okay. We have one  
5 other thing we want to go through specifically.

6 MALE PARTICIPANT: The meeting is at five.  
7 (Inaudible) the meeting up.

8 MALE PARTICIPANT: Specifically, we have a  
9 time line that needs to be put together (inaudible) at  
10 Headquarters for this.

11 MALE PARTICIPANT: We'll get back with the  
12 RST before we leave today and let them know.

13 MALE PARTICIPANT: I just received,  
14 Antonio (phonetic) sent me a whole bunch of stuff,  
15 too. There's generic issues in developing a time  
16 line, and I also heard that Don Marxbury (phonetic) is  
17 developing a time line. The thought is we probably  
18 ought to coordinate and make sure we have one NRC time  
19 line instead of 15.

20 MALE PARTICIPANT: Yes. And the real time  
21 critical nature of that is we need a report put  
22 together by the end of the week, and that's part of  
23 it. So we probably need to see something down here no  
24 later than Thursday morning so we can review it and go  
25 through it with some of the (indiscernible, possibly

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1 "MELCOR") people, as well.

2 FEMALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: So what I'll do --

4 FEMALE PARTICIPANT: (Inaudible) given  
5 you, and we're going to have to, yes, you already told  
6 me there's several people, there are numerous time  
7 lines and chronologies out there on this event. And I  
8 don't know if we'll pull any of them back, so we need  
9 to --

10 MALE PARTICIPANT: Leverage the work  
11 that's already been done and try and make sure that  
12 it's comprehensive.

13 FEMALE PARTICIPANT: Comprehensive and  
14 consistent. Correct.

15 MALE PARTICIPANT: Exactly.

16 FEMALE PARTICIPANT: So what I'm hearing,  
17 though, from you is that you're going to get back to  
18 us on the specific request.

19 MALE PARTICIPANT: We --

20 MALE PARTICIPANT: I already made a  
21 specific request with generic issues that I found was  
22 probably the only one developing a time line and then  
23 sent that. Antonio had sent me a time line, and I  
24 talked to --

25 MALE PARTICIPANT: Let's do this. Rudy

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1 (phonetic) can send -- Laura, Rudy can send you an  
2 email. You're going to be at RST01 (phonetic)?

3 FEMALE PARTICIPANT: Correct.

4 MALE PARTICIPANT: Okay. So Rudy can put  
5 a quick email together to let you know who he talked  
6 to and what they're doing, and then we'll just need to  
7 make sure that we have some coordination up there so  
8 that it keeps moving.

9 MALE PARTICIPANT: And then we also have  
10 some contractors that are putting together a time line  
11 for MELCOR (phonetic) input, too.

12 MALE PARTICIPANT: Yes.

13 FEMALE PARTICIPANT: Is that the people in  
14 Japan?

15 MALE PARTICIPANT: Yes.

16 FEMALE PARTICIPANT: Are they the Sandia  
17 (phonetic) folks?

18 MALE PARTICIPANT: Yes, they're Sandia.

19 MALE PARTICIPANT: Yes.

20 FEMALE PARTICIPANT: So they're also doing  
21 what?

22 MALE PARTICIPANT: In order to load their  
23 melt core rod, they have to figure out what was  
24 running when and what was lost when. So they're  
25 ending up trying to develop a time line also. But I'm

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1 just saying we're going to have three or four  
2 different time lines, probably all based on data that  
3 came from different places, and we need to really put  
4 together kind of a single voice on it and probably  
5 even source where we got our data from, so if somebody  
6 questions it later, you know, we can figure out where  
7 this stuff came from.

8 MALE PARTICIPANT: We've got to go.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: We've got to be up  
11 there (inaudible).

12 MALE PARTICIPANT: (Inaudible).

13 MALE PARTICIPANT: So we just lost most of  
14 our group. They're going to get their photo made with  
15 the ambassador. What else do you got for us, Laura?

16 FEMALE PARTICIPANT: Actually, you've  
17 covered all the items that I wanted to talk to you  
18 about. I do need to talk to you offline for five  
19 minutes, Mike.

20 MALE PARTICIPANT: All right. I'll just  
21 pick the phone up as soon as we're done. Alan, are  
22 you done?

23 FEMALE PARTICIPANT: Well, actually, I  
24 need to -- because we're going to stay on this  
25 (inaudible) because Eva and Antonio want to talk with

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1 the consortium about the stability or the --

2 (End of Audio.)

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(CONFERENCE CALL INITIATED)

RECORDED VOICE: There are currently 14 participants in your conference. The following people are in the conference:

MALE PARTICIPANT: Headquarters Operations officer.

BOB DALY (PHONETIC): Bob Daly (phonetic), Region 3 duty officer.

BRIAN HARRIS (PHONETIC): Brian Harris (phonetic), OGC.

MIKE CRANOVICH (PHONETIC): Mike Cranovich (phonetic), Commissioner Ostendorff's office.

MALE PARTICIPANT: (Inaudible) chairman's office.

MALE PARTICIPANT: (Inaudible), Commissioner Svinicki's office.

NANCY EDY (PHONETIC): Nancy Edy (phonetic), (inaudible) officer secretary.

JOHN CARUSO (PHONETIC): John Caruso, RDO Region 1.

MALE PARTICIPANT: (Inaudible).

MARVIN FRIKES (PHONETIC): Marvin Frikes (phonetic), Region 2 duty officer.

REBECCA SADICIK (PHONETIC): Rebecca

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1 Sadicik (phonetic), Commissioner Magwood's office.

2 LARRY CAMPER (PHONETIC): Larry Camper  
3 (phonetic), SFME (phonetic).

4 MALE PARTICIPANT: (Inaudible).

5 RECORDED VOICE: Roster playback is  
6 complete.

7 MALE PARTICIPANT: Well, good morning,  
8 everyone. Welcome to the assistance call. I'm going  
9 to be working off, principally, from this morning's  
10 briefing sheet. Basically, the plant status is  
11 relatively unchanged from the last 24 hours or so.  
12 The radiation levels and the radiological conditions  
13 and plant status are, roughly, the same. Still making  
14 preparations onsite to provide nitrogen into the Unit  
15 1 reactor containment.

16 Leakages are continuing into the sea from  
17 your Unit 2 discharge points. We have, the site team  
18 has information related to planned discharges but  
19 really not a lot of information on these leaks, what's  
20 in them or how big they are.

21 (b)(4)  
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(b)(4)

(b)(4)

We're

working with the site team to achieve that.

We're beginning to work on the white paper relative to the spent fuel pool, also to define what might be considered as stable conditions in the long term, which comes into play on really site activities.

One thing that we have been working on, and that's this consortium that we have going with industry and the site team, NRC. We would prefer to get in a mode which is more of a regulator, more our traditional regulator role and let the INPO and industry reps work more closely with TEPCO and the NRC work more closely with NISA. But we recognize that that's a, that that is a transition that needs to evolve, but that's one that looks like it's more viable at this point since industry has really stepped up their game.

We are working with the, in response to a request from the ambassador to look at a draft Department of State memorandum, which is really dealing with the return of U.S. citizens that were suggested to go out of country to come back and get to, for instance, Tokyo, outside of the 50-mile area.

One of the things that's driving that, just you might

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1 be interested, is the getting kids back to school, so  
2 that's one of the things on their mind. They are  
3 trying to think of things a little more normal from  
4 the industry's point of view.

5 I guess the other thing that I would  
6 highlight to you, it was something that got my  
7 attention this morning, (b)(4)

8 (b)(4)

16 (b)(4)

So that's a good news.

17 Can I answer any questions for you? That  
18 was the end of my prepared remarks.

19 MIKE CRANOVICH: Good morning (inaudible),  
20 Mike Cranovich.

21 MALE PARTICIPANT: Hi, Mike.

22 MIKE CRANOVICH: I've got a couple of  
23 questions for you. These are kind of follow-up items.  
24 You talk about the white paper on spent fuel pool  
25 management, accident management kind of guidance. I

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1 think a couple of days ago there was a mention that  
2 the guidance would be rolled into the SAMG guidance  
3 document or maybe issued as rev 2. Is that still the  
4 plan?

5 BRIAN HOLIAN (PHONETIC): Yes, Mike, this  
6 is Brian Holian (phonetic) (inaudible) through that  
7 weekend and that. I don't think, and I saw an email  
8 asking for a rev 2 to that (inaudible) team  
9 assessment. No, it's not the current plan. It may be  
10 in the future rolled into it. What really happened I  
11 think was that that assessment paper, the site team  
12 asked for the spent fuel pool to be kind of pulled out  
13 from there and maybe expanded on. So this has been  
14 several days ago, and so we have a working draft that  
15 we have shared with our technical consortium for what  
16 other option. We don't know if we know levels in  
17 these, what other advice we can give on making sure we  
18 maintain water, and then get to an end state where  
19 you've got spent fuel pool cooling somehow occurring.

20 So it's more a future thought piece.  
21 Right now, there's no plans to update that RST  
22 assessment paper. We've pulled out two pieces from  
23 that just for the big picture. One was the spent fuel  
24 pool to support our Japan team in Tokyo. The second  
25 piece was this hydrogen/oxygen venting paper that

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1 really was pulled out, and that was given over the  
2 weekend to TEPCO, and that probably caused one of two  
3 things that has caused this discussion between TEPCO  
4 and GE on assumptions, as Bruce (phonetic) mentioned.

5 So that helped, that and an INPO person who seems to  
6 have been able to look their way into the TEPCO ERC  
7 (phonetic).

8 So no rev 2 of that RST assessment paper.

9 We're still working on a spent fuel pool paper just  
10 for background for our site team.

11 MALE PARTICIPANT: Okay. When you get  
12 that paper kind of in a reasonable condition, could  
13 you send a copy up?

14 BRIAN HOLIAN: Yes, we can do that. It's  
15 probably still, we had a due date of April 6th to work  
16 it with the site team. We've gotten input from GE and  
17 others, and we're still finalizing a draft. It might  
18 be several shifts away.

19 MALE PARTICIPANT: Okay, great. On Unit  
20 1, the shift report mentioned, and I've got to make  
21 sure I've got the right version here, that there's a  
22 possibility of a stuck open SRV. Do we have anymore  
23 on why we believe that to be the case? It says it  
24 came from the in-country team.

25 BRIAN HOLIAN: Yes, that status was just

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1 added overnight, the site team from NISA, with a stuck  
2 open SRV. No, we've speculated that that might be the  
3 case on really, you know, it's one, two, and three  
4 just amongst the reactor safety team, so this is the  
5 first time it's come from them. You might ask, you  
6 know, if that's the case, why do you have the pressure  
7 level instruments still reading at 45 and close to 90  
8 psig. Well, it's possible that that stuck open SRV is  
9 covered with water and you're just using the water  
10 path and still keeping a higher pressure above that.

11 MALE PARTICIPANT: Yes, I was thinking  
12 maybe it's just partially open, not necessarily fully  
13 open.

14 BRIAN HOLIAN: That's right. That could  
15 be also. What we're seeing on that status sheet is,  
16 you know, they're starting to get some instruments  
17 back, so they're just listing them. On Unit 3 I think  
18 now you see a channel A and a channel B on pressure.  
19 That's new from overnight also, so they're starting to  
20 get kind of redundant instruments. We don't  
21 necessarily trust the readings, but we're tracking  
22 them.

23 MALE PARTICIPANT: Okay. Let's see. Just  
24 to follow up on -- you know what? I think I'm just  
25 going to leave it at right now, and I'll come back to

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1 you after others have weighed in.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: This is (inaudible).

4 (b)(5)

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9 BRIAN HOLIAN: Yes, this is Brian Holian  
10 again. On Unit 1 containment, you know, and I'm even  
11 reading this in other documents, you know, (b)(5)

12 (b)(5)

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23 (b)(5)

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25 I would think that, and I was just reading

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8 (b)(5)

Does that make sense?

9 MALE PARTICIPANT: Yes, yes, it does. The  
10 next question I have is do we have any idea how much  
11 hydrogen generation is going on now?

12 BRIAN HOLIAN: Yes, it's Brian Holian  
13 again. (b)(5)

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1 on that drove some of the differences.

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3 (b)(5)

(b)(5)

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9 MALE PARTICIPANT: All right, okay. Is  
10 the primary mechanism for hydrogen generation  
11 hydrolysis or do we think there's still some  
12 (indiscernible, possibly "zirc hydriding") going on?

13 BRIAN HOLIAN: Yes, I think we think  
14 there's both still going on. I've been off of that  
15 calculation for a day here. We might know more when,  
16 Bruce mentioned that, verbally, GE talked with TEPCO  
17 at 2:00 in the morning our time. (b)(4)

18 (b)(4)

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21 MALE PARTICIPANT: All right. Okay. Next  
22 question I have is I read a report in the media  
23 somewhere. It sounded credible but it also sounded  
24 speculative that because of the core melt and the  
25 reconfiguration of the core that there were

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1 intermittent criticalities that either have been  
2 experienced or are still potential. Do we know  
3 anything more about that?

4 MALE PARTICIPANT: Yes, this is Brian  
5 (inaudible), reactor safety team. We've seen those  
6 even several days ago. They exist (inaudible) has  
7 been known to be out there, and that's got a half life  
8 that's produced by a neutron (inaudible) to get  
9 (inaudible) 37 to (inaudible) 38. So we've seen that  
10 data. That actually came from a TEPCO water source.  
11 So that possibility has been there. We do believe  
12 that there's an awful lot of salt that's probably  
13 encrusting a portion of that fuel, and we're not so  
14 sure what water level, what cooling is actually  
15 getting to the core, the damaged core in the units.  
16 You know, you see a high feed water nozzle temperature  
17 of, you know, 230 degrees centigrade on Unit 1, and  
18 you wonder where that's coming from. Is that sensing  
19 heat source coming up from the fuel, or is it a failed  
20 instrument? You know, it's hard to tell on that. So  
21 we wouldn't be surprised if you did still have some  
22 pockets there of core that's awful hot.

23 CINDY JONES (PHONETIC) This is Cindy Jones  
24 (phonetic) from PMP (phonetic). One of the  
25 recommendations that we provided back to the RST last

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1 week on the (indiscernible, possibly "chlorine") was  
2 that it certainly could be an activation product from  
3 the salt in the sea water that was used to pump in.  
4 So I wouldn't jump to the conclusion it's a  
5 criticality product yet. It's still unknown. I would  
6 agree with Brian on that.

7 MALE PARTICIPANT: Okay. So this thing  
8 would be activated by just the neutrons that are there  
9 from, like, the uranium and the plutonium, their  
10 natural decay?

11 CINDY JONES: Yes, exactly.

12 MALE PARTICIPANT: Okay. So in other  
13 words, we don't really have any good information on  
14 whether or not criticality is, re-criticality is a  
15 possibility?

16 MALE PARTICIPANT: No, we don't. No, we  
17 don't. But you do see red levels going down, which is  
18 good news. If you've been tracking them, we have an  
19 IE (phonetic) document that tracks some. Our status  
20 sheets really have been tracking them. I noticed  
21 that, you know, even on Unit 1 here, the dry well  
22 (inaudible), you know, maybe four or five days ago  
23 were, you know, both at above 3,000 per hour and  
24 they've both come down. So that's good news.

25 MALE PARTICIPANT: Okay. Yes, that is

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1 good news. Okay. Next question is, on a couple of

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11 MALE PARTICIPANT: That's been on our  
12 plate for at least a week. It was one of those  
13 situations where we, you know, that the thought was,  
14 well, what happens if, what happens if something  
15 happens in Unit 1, at that point in time, and caused  
16 something to happen that caused them to evacuate the  
17 site? So that's kind of been out there for a while,  
18 Pat (phonetic).

19 MALE PARTICIPANT: Okay. What kind of  
20 event or something happening at Unit 1 would drive  
21 that?

22 BRIAN HOLIAN: This is Brian Holian. I  
23 think the major concern is, as of three days ago and  
24 maybe even through today, was higher pressures there  
25 and a hydrogen/oxygen concentration that was suspect.

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1 Remember, three days ago when you might have seen  
2 (inaudible), you didn't have this knowledge that  
3 you've got a dry well volume, a containment volume  
4 turnover rate, and so you had pressure steady to going  
5 up and you had an unknown hydrogen to oxygen, and you  
6 actually had calculations done by us and GE that  
7 showed a potential right then for flammability or  
8 explosion to occur. So that probably caused that type  
9 of thinking.

10 MALE PARTICIPANT: Okay. That makes  
11 sense. Okay. Last question I'm going to ask is  
12 regarding our staffing levels and our mode of  
13 operation. I asked last week if we had developed a  
14 plan to wind down operations both in Japan and in the  
15 Ops Center, and I was told that it was under  
16 consideration, that it was being thought about, but  
17 that the plan was that there would be no stand down at  
18 all before, my understanding was Wednesday, tomorrow,  
19 on orders of the chairman, but I've also heard that it  
20 might be Wednesday of next week. Can you give me an  
21 update on that, please?

22 MALE PARTICIPANT: Pat, I'll tell you what  
23 I know, and that's we just sent another wave of folks  
24 over there. We're mindful of being able to support  
25 them, you know, in a realtime basis. So our watch

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1 (inaudible) goes out another two weeks. Now, in  
2 between, we're seeing that the level of activity in  
3 various work units is changing over time. It's  
4 getting less in many areas, and so that's an active  
5 thing that we're considering. But our primary focus  
6 still is being able to support our folks who are in  
7 Japan.

8 MALE PARTICIPANT: Okay. So I've heard  
9 rumors that the size of the, you know, the staff down  
10 there in the Ops Center has been decreasing. Is that  
11 true?

12 FEMALE PARTICIPANT: From a PMP  
13 standpoint, last week we stood down the  
14 (indiscernible, possibly "met") person from  
15 etiological, as well as the GIS person, because that  
16 was not needed. Otherwise, the team has been the same  
17 as it was before.

18 MALE PARTICIPANT: Any other team change?

19 JOHN ADAMS (PHONETIC): Yes, this is John  
20 Adams. The liaison team has decreased their presence.  
21 We had a federal liaison staffed with two that's now  
22 staffed with one. The OCA liaison is a person on call  
23 now, not even currently being staffed. The  
24 international liaison went from two to one, and the  
25 state liaison is now down to one person also. So we

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1 have scaled back to some degree.

2 BRIAN HOLIAN: This is Brian Holian. The  
3 reactor safety team has been steady at one director  
4 and three staff.

5 MALE PARTICIPANT: And from the ET, the  
6 TMT (phonetic) direct support on the executive team,  
7 that position was eliminated about a week ago.

8 MALE PARTICIPANT: Thank you very much.  
9 Now, the last question here is could the commission  
10 offices get a copy of that Department of State memo on  
11 return, plus our comments back?

12 FEMALE PARTICIPANT: Yes. We actually got  
13 comments back. We provided comments last night to the  
14 Japan team and got comments back, and it will say "TMT  
15 revisions April 5th" on the top, so we can make sure  
16 you get that. It's still a graph.

17 MALE PARTICIPANT: Understood.

18 FEMALE PARTICIPANT: But it looks very  
19 good. It really looks very good.

20 MALE PARTICIPANT: Okay. Well, yes, but  
21 the thing is it's something that comes up in  
22 interagency and so forth, and so just so that we can  
23 have an idea so that, you know, we can say, if  
24 somebody asks, because we do get inquiries at our  
25 level. So, you know, it's good for us to be able to

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1 at least speak to something, rather than kind of shrug  
2 our shoulders. So thanks very much.

3 MALE PARTICIPANT: Yes. And just, again,  
4 you know, respecting that it is something that's in  
5 motion so . . .

6 FEMALE PARTICIPANT: And, actually, we  
7 just got it last night, so (inaudible) of paper.

8 MALE PARTICIPANT: Other questions?

9 MIKE CRANOVICH: Bruce, this is Mike  
10 Cranovich again. How many folks do we have over in  
11 Japan now? At one time, we were up to about 13.

12 MALE PARTICIPANT: Somebody (inaudible)  
13 the list because it's been -- I don't know how many  
14 came back and went over, so I just don't know, Mike.  
15 But we have a roster here that (inaudible) if Tim can  
16 count more than one hand.

17 MALE PARTICIPANT: Yes. I think,  
18 currently, I think it's about nine right now. Let me  
19 confirm it, but I think the number is nine at the  
20 moment.

21 MIKE CRANOVICH: Okay. And then because  
22 we're now well into week four. Have we been able to  
23 learn a little bit more about the days following the  
24 tsunami about what the operators were doing in terms  
25 of action management, use of hardened vents and other

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1 vent pads, things that might help inform our short-  
2 term and near-term activities for this task force?

3 MALE PARTICIPANT: I don't know if that's  
4 knowledge that Chuck and the folks have. It's not  
5 something that we've been pursuing from this end. You  
6 know, it's a good thought, Mike.

7 MALE PARTICIPANT: We have people on the  
8 spot. They're not right at the station, of course,  
9 and not necessarily tied with TEPCO. But since  
10 they're there, they're going to have probably better  
11 access or this is probably one of their best  
12 opportunities to get early information.

13 MALE PARTICIPANT: Yes. Just a point of  
14 sensitivity, I know that a lot of the concerns that  
15 Chuck conveyed back to us is we ask too many  
16 questions, and so he's trying to balance, you know,  
17 the things, the information requests we make of them.  
18 That's been a challenge for him.

19 MALE PARTICIPANT: Certainly. I  
20 appreciate that. He's got to go through multiple  
21 channels, too, so it's a challenge.

22 MALE PARTICIPANT: So I think, no, really,  
23 Mike, even when they meet with TEPCO -- I'm not  
24 talking the chain of command through the U.S.  
25 government type stuff. Even when they meet with TEPCO

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1 officials, you know, it's pretty clear that they, they  
2 being TEPCO, prefer to answer a limited number of  
3 questions and just recently started asking us  
4 questions, which is a good thing.

5 MALE PARTICIPANT: Okay.

6 MALE PARTICIPANT: Hey, Mike, this is  
7 McGinty (phonetic) again. So we have a number of  
8 folks slated to come back on April 6th and April 7th  
9 and a number that just arrived, so there is an overlap  
10 here. So I count currently, including Elmo  
11 (phonetic), Chuck, and John Monitor (phonetic), 16  
12 people over there.

13 MALE PARTICIPANT: Wow, okay. Plus, these  
14 daily contractors that showed up yesterday or the day  
15 before yesterday?

16 CINDY JONES: Mike, this is Cindy. I  
17 think you're referring to the Sandia National Lab. We  
18 understand that they were sent there last Wednesday by  
19 (inaudible) at the request of (inaudible) and  
20 (indiscernible, possibly "Pete Lyons"). And they are  
21 over there already.

22 MALE PARTICIPANT: Okay. Did we know that  
23 before the decision to send them over that they were  
24 on (inaudible), or were they --

25 FEMALE PARTICIPANT: No.

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1 MALE PARTICIPANT: They just showed up.

2 MALE PARTICIPANT: Well, we found out on  
3 one of these principal phone calls that DOE announced  
4 that they have been in the (inaudible) people from  
5 Sandia.

6 MALE PARTICIPANT: Okay.

7 MALE PARTICIPANT: So we got ten  
8 (indiscernible, possibly "bolts") slated to come back  
9 April 6th and 7th, so that will get the number back  
10 down to about six.

11 MALE PARTICIPANT: About six?

12 MALE PARTICIPANT: Yes.

13 MALE PARTICIPANT: Great, okay. I don't  
14 have any further questions.

15 MALE PARTICIPANT: Okay. Anyone else?  
16 Okay. We'll gather again tomorrow same time, same  
17 station.

18 MALE PARTICIPANT: Great. Thanks, Bruce.

19 MALE PARTICIPANT: Enjoy your day.

20 MALE PARTICIPANT: Bye.

21 MALE PARTICIPANT: All right. Thanks.  
22 You, too.

23 MALE PARTICIPANT: Okay.  
24  
25

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: This is the Headquarters Operation office. Stand by for our roster playback.

RECORDED VOICE: There are currently ten participants in your conference. The following people are in the conference.

FEMALE PARTICIPANT: Hi, good evening. This is (inaudible) --

GARY WALDER (PHONETIC): Gary Walder (phonetic), INPO.

MALE PARTICIPANT: (Inaudible).

RICK NIELSON (PHONETIC): Rick Nielson (phonetic), INPO.

GLEN SOUTHERN (PHONETIC): Glen Southern (phonetic), Naval Reactors.

LIEUTENANT COLONEL PRICE (PHONETIC): U.S. (inaudible), Lieutenant Colonel Price (phonetic).

MALE PARTICIPANT: (Inaudible) Support Team, Tokyo.

MALE PARTICIPANT: (Inaudible).

RECORDED VOICE: Roster playback is complete.

CINDY CARPENTER (PHONETIC): Hi. Good evening, everyone. I'm Cindy Carpenter (phonetic),

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1 and I'm (inaudible). I'm the executive team director  
2 (inaudible) joining us this evening. We'll go ahead  
3 and start the agenda. The first item is the continued  
4 discussion of organization issues and (inaudible)  
5 responsibilities. (Inaudible) if anyone had any  
6 updates.

7 (No response.)

8 CINDY CARPENTER: All right. Not hearing  
9 any updates on that one then, I guess. The next item  
10 is to go ahead (inaudible).

11 MALE PARTICIPANT: Is Mike Lombard  
12 (phonetic) on the call?

13 CINDY CARPENTER: Yes, he is.

14 MALE PARTICIPANT: Yes, he is.

15 MALE PARTICIPANT: Okay. Do you want to  
16 add anymore amplification to the email you sent?

17 MALE PARTICIPANT: Sure. We were going to  
18 hit that at the end, but I can hit that now. The  
19 (inaudible) to U.S. agency rules and (indiscernible,  
20 possibly "league"), that's still being discussed and  
21 being discussed at a high level within the  
22 administration. And, hopefully, in the next day or  
23 so, hopefully not more than three, although no target  
24 date was given, we'll get a decision on that, along  
25 with a process validating funding sources and the

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1 vetting of needs (inaudible) Japan.

2 I don't know if anybody had a chance to  
3 look at the email we sent about a half an hour ago.  
4 These are high-level bullets that I had from my notes  
5 from the meeting this afternoon. Any specific topics  
6 of interest by consortium members?

7 RICK NIELSON: Yes. This is Rick Nielson  
8 from INPO. We didn't get that email, so it would help  
9 if you could just give a 30-second overview of what  
10 that says. From yesterday, my understanding was DOE  
11 would be the lead agency and that there was a lead  
12 individual that was yet to be named. That's what  
13 we're interested in finding out.

14 MALE PARTICIPANT: Right. It was  
15 reaffirmed that DOE is the technical lead, and I know  
16 we had some discussion of that last night. I'll leave  
17 that to DOE if they want to clarify what that means in  
18 our current environment. The folks that were on the  
19 phone call earlier today, which was a lot of military  
20 folks, Admiral Swift (phonetic) and Major General Jeff  
21 Mathis (phonetic) of J3, their understanding was that  
22 (inaudible) in the NRC and other folks in the embassy  
23 are the clearinghouse for all requests for the  
24 government of Japan. I told them about the consortium  
25 and things that we were doing in our environment, and

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1 Admiral Swift did not think his folks were tied into  
2 the (inaudible), and I think we got a couple of new  
3 folks added to the list, situation list that I emailed  
4 tonight that I believe are from Admiral Swift's staff.

5 A veto conference will be held with the (inaudible)  
6 in Japan in the coming days. We hit the lead  
7 agencies, if that needs to be designated.

8 Also, funding sources (inaudible) sources  
9 that got a lot of discussion with the group this  
10 afternoon. And in the next two days or so, we'll have  
11 a process for validating funding sources. OMB is  
12 plugged in now. There were two representatives that  
13 were on the phone call earlier. They are assisting in  
14 the finding of funding sources and getting that part  
15 of the process worked out.

16 DOS, Department of State, and NSS  
17 (phonetic) and the White House staff are tasked with  
18 pulling the process together, including an  
19 organizational chart and maybe something like a flow  
20 chart to show how the process will be working. The  
21 NRC should take the list that we've been using for the  
22 consortium and the embassy list which we received  
23 earlier today and compile them. We've done that, and  
24 I've asked our team in Japan, if they have time later  
25 today their time, later tonight our time, to get

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1 together and go through that. I don't think it will  
2 take too much time. There's only a couple of items  
3 that are not consistent between the two lists, so that  
4 shouldn't take too long to actually come up with one  
5 consolidated list.

6 And let's see. The last thing was, it  
7 wasn't clear if similar calls similar to the one that  
8 I was on earlier today will be held, but I'll keep  
9 folks apprised or the LT (phonetic) director here of  
10 the NRC will keep the consortium apprised of how that  
11 process moves forward.

12 CINDY CARPENTER: Any questions you'd like  
13 to ask of Mark?

14 MALE PARTICIPANT: No. Well, actually,  
15 just one, and that's if INPO could be sent that email.  
16 If you could send it to Rick Nielson, that would be  
17 fine. I'll get it to the right people here.

18 MALE PARTICIPANT: I'm pretty sure, Rick.  
19 I'm looking at the email header now. It looks like  
20 you (inaudible), but I'll just verify that when we get  
21 out of this meeting and make sure you get a copy if  
22 you don't have one already.

23 MALE PARTICIPANT: Okay.

24 GARY WALDER: Nielson, this is Gary  
25 Walder. We have it.

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1 MALE PARTICIPANT: Okay. Thanks. No need  
2 to take any further action then. For some reason, I  
3 didn't get it, but I'll just pick it up from Gary.

4 MALE PARTICIPANT: Okay. (Inaudible).  
5 Thank you.

6 CINDY CARPENTER: Any other questions  
7 you'd like to ask?

8 MALE PARTICIPANT: No. Thank you very  
9 much for that overview, though.

10 CINDY CARPENTER: Very good. All right.  
11 Well, unless there's anything else on the roles and  
12 responsibility or the discussion of organizational  
13 issues, then we'll go ahead, moving to, there's a list  
14 of items. All right. So we can go ahead. So it  
15 would be the first one, and that's the radiation  
16 monitors, survey monitors. And, Rick, I think you  
17 have the lead on this one.

18 MALE PARTICIPANT: Yes. Just one or two  
19 items to mention on this. South Texas, as the group  
20 may recall, had two parcels to send. One had some  
21 contamination, and the Japanese did not accept that,  
22 so South Texas will not be shipping that. Apparently,  
23 the Japanese just are not receiving anything that is  
24 contaminated, so that's one aspect of our update here.  
25 The second aspect is that, Bruce, hand and foot

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1 friskers (phonetic), several of those will be shipped  
2 by air. So I think three or four are going to be  
3 shipped that needs to be sent.

4 MARK LOMBARD: Greg, this is Mark Lombard.

5 I thought of something after the call last night.  
6 Has the concrete pumping truck left Georgia? I know  
7 it's coming from Savannah River site. I was just  
8 thinking maybe is that a way to get the friskers to  
9 Georgia and put them on the same plane as the concrete  
10 pumping truck is coming over on?

11 MALE PARTICIPANT: That would actually be  
12 a real good idea. They could probably be, the  
13 friskers could be shipped by truck to Savannah River,  
14 but we would need help just coordinating that. So if  
15 there's a point of contact that we could hook up with  
16 Bruce, that would work quite well.

17 MARK LOMBARD: Okay. DOE was really  
18 handling that. Do we have anybody from DOE that has  
19 some information on that transfer?

20 MALE PARTICIPANT: We really weren't  
21 handling that. We were aware of it, and we were  
22 trying to find out information, again, to clear things  
23 up here a bit. Basically, (inaudible) between TEPCO  
24 and the owner of that. My understanding is, I'm  
25 looking at it right now, the email, and I believe it

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1 has already departed Atlanta, so we probably have  
2 already missed the window. I was actually trying to  
3 find out if there was any space on it for some other  
4 equipment we have.

5 TEPCO arranged the transport. And my  
6 understanding is that it is now on the way. There  
7 will be two of those units being shipped in this very  
8 large aircraft, the (inaudible) 225, which is a one-  
9 of-a-kind gigantic aircraft. And standing at the  
10 flight, there's no way to kind of turn (inaudible).  
11 And I don't know the exact arrival time. I would  
12 assume it's Thursday sometime, maybe Friday.

13 MALE PARTICIPANT: Yes, sorry. I should  
14 have brought that up earlier. We might have been able  
15 to make that happen.

16 CINDY CARPENTER: Anything else on the  
17 (inaudible) items?

18 MALE PARTICIPANT: Negative.

19 CINDY CARPENTER: All right, great. Thank  
20 you so much. The next one is (inaudible) that one.

21 MALE PARTICIPANT: Well, (inaudible) a  
22 little overwhelmed between my half day job and this  
23 full-time job. My understanding and the update from  
24 yesterday that this is ongoing, so this is not an  
25 issue of models being shared. We can go ahead and

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1 change that comment to, you know, to technical  
2 interactions and, you know, and comparison of  
3 radiation transport models are being conducted. So  
4 this is ongoing.

5 CINDY CARPENTER: Okay, good. Thank you.

6 The next one is the use of (inaudible) semi-conductor  
7 (inaudible).

8 MALE PARTICIPANT: So that one is also  
9 DOE, and the status is as-is. It's supposed to be, I  
10 believe they should have arrived today, and I still  
11 don't have an update on whether it's two or four more  
12 being shipped this week. But they're supposed to  
13 arrive by Friday.

14 CINDY CARPENTER: Okay. Any other  
15 discussion on that one?

16 (No response.)

17 CINDY CARPENTER: Okay. How about the  
18 next one, the use of radiation model (inaudible)?

19 MALE PARTICIPANT: So I did get  
20 clarification on this, as well. My understanding on  
21 this is that the ground, we have the equipment in  
22 country, and we are awaiting approval from the  
23 government of Japan if they want us to deploy that in  
24 such a way to provide kind of this line of detection,  
25 if you will. My understanding is that that equipment

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1 is there, it will require us to do some manning of  
2 that equipment, but we're actually waiting on the  
3 government of Japan to say, yes, go ahead and do that.

4 CINDY CARPENTER: Okay, thank you. All  
5 right. The next one is the (inaudible) devices, and  
6 that's DOE and DoD.

7 MALE PARTICIPANT: Yes. TALON robot and  
8 that whole equipment set there ships today. It should  
9 arrive on Friday.

10 CINDY CARPENTER: All right. (Inaudible)  
11 Friday.

12 MALE PARTICIPANT: Excuse me. So one more  
13 thing, and, Ron, if you're on, the one more thing  
14 we're looking for is we're still going back and forth,  
15 if you will, on whether or not we should be sending  
16 some experts to help with that equipment package once  
17 it arrives.

18 MALE PARTICIPANT: Once it arrives on  
19 Friday.

20 CINDY CARPENTER: Okay. Friday.  
21 (Inaudible). It sounds like (inaudible) may not be on  
22 the call right now, so we'll come back and see if they  
23 join us and, if they don't, (inaudible) on that one.

24 MALE PARTICIPANT: Alice (phonetic) is not  
25 on. I'll speak for her. Are you there?

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1 FEMALE PARTICIPANT: Yes, I am on. I do  
2 not have an update on that. I will try to get an  
3 update for tomorrow's meeting.

4 CINDY CARPENTER: Okay. (Inaudible) thank  
5 you.

6 MALE PARTICIPANT: So we are, we'll go  
7 ahead and talk about it a little bit. We are working  
8 that. Basically, what we're trying to figure out now,  
9 we've gone through all the export control issues.  
10 I've sent a note, now that we know how the large  
11 concrete pumpers were shipped, we're basically trying  
12 to figure out whether or not the government of Japan  
13 (inaudible) trailer as quickly as possible. If they  
14 do, that means airlift. In the note I just went to  
15 Ron Cherry (phonetic), I think maybe 20 minutes ago,  
16 we're basically asking to see if Japan wants to pay  
17 for the air freight. And, again, it will be using a  
18 heavy-lift aircraft of some type, but I think we're  
19 still going back and forth on negotiation here.

20 MALE PARTICIPANT: Are those all coming  
21 from the same place?

22 MALE PARTICIPANT: Yes, they are. They're  
23 all coming from Savannah River. These were the items  
24 I was trying to see if we could fit on the, if we  
25 could fit on the aircraft that was leaving Savannah,

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1 and it would probably have to go the same way. We'd  
2 probably have to ship this stuff to Atlanta to get it  
3 on an airport large enough to get out of there.

4 MALE PARTICIPANT: Do you have any idea  
5 when we might get some feedback? Probably not. But  
6 if we can, again, work those with the hand and foot  
7 monitor shipments or any other equipment to get it to  
8 Savannah River, get it to Georgia, and ship them all  
9 at the same time, that might be a good idea.

10 MALE PARTICIPANT: No, I think that's a  
11 great idea. And as soon as we find out some windows,  
12 we will certainly let this group here know. And then  
13 we'll also make sure the embassy folks know. That  
14 way, all sides know when this stuff is coming. But I  
15 think we're more than open to trying to bundle some of  
16 the more bulky things together if we can do that.

17 MALE PARTICIPANT: Great. Thank you.

18 CINDY CARPENTER: Anything else on that  
19 item?

20 (No response.)

21 CINDY CARPENTER: Okay. The next one is  
22 the temporary holding tank and the (inaudible).

23 MALE PARTICIPANT: I jumped. I'm sorry.  
24 My computer jumped a page.

25 CINDY CARPENTER: That's okay. We're on

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1 item 31. That's the temporary holding tank and the  
2 (inaudible) temporary holding area (inaudible) water.

3 MALE PARTICIPANT: Okay. So you were  
4 responding to 31 earlier.

5 MALE PARTICIPANT: Yes.

6 CINDY CARPENTER: Oh, okay.

7 MALE PARTICIPANT: So 30 is more the  
8 (indiscernible, possibly "contest") study, water  
9 management strategy. Any new information from DOE on  
10 number 30?

11 (No response.)

12 CINDY CARPENTER: Well, we'll take that  
13 one up tomorrow (inaudible) that one then. All right.  
14 Let's go on then to 33 (inaudible). So item  
15 (inaudible).

16 MALE PARTICIPANT: I would like some  
17 input. I don't know if there's a, I didn't hear if  
18 there was anyone who is involved directly in Japan on  
19 this one, but we provided a preliminary list just to  
20 see if this is what, this is the kind of thing that's  
21 useful. It's, more or less, a catalog of what's  
22 available that we thought would fit the need. We  
23 haven't gotten any indication that it's even been  
24 looked at. And before we take much further study,  
25 because this is really a research project, we'd like

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1 to know if it's coming close, if it's going to be  
2 used, if it's (inaudible) separate. So we'd like some  
3 feedback.

4 MALE PARTICIPANT: And, Rick, which number  
5 was that on?

6 MALE PARTICIPANT: It's 34.

7 MALE PARTICIPANT: And that would be the  
8 embassy number or the --

9 MALE PARTICIPANT: It's this list, the NRC  
10 list number.

11 FEMALE PARTICIPANT: All right. We'll see  
12 if we can get you some update on that.

13 MALE PARTICIPANT: Yes. That would be  
14 appreciated. We're at the point where what we've  
15 found is, in looking for sources of radiax (phonetic),  
16 their stocks have been bought out by opportunists.  
17 They have, they literally have no new radiax that are  
18 available. They've all been purchased shortly after  
19 the accident.

20 MALE PARTICIPANT: Okay. And if we look  
21 at item 34, Rick, it looks like there's a lot of  
22 personal dosimeters and things like that that are on  
23 the list. And, quite frankly, a couple of days ago we  
24 had a meeting with other donor nations here, and it  
25 seems like a lot of the other nations have had

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1 requests for dosimeters, as well. But I'm not sure  
2 we've heard anything back from the government of Japan  
3 to confirm these particular numbers, and I believe  
4 that the economic section down here, yesterday  
5 afternoon, I believe, they were going to, after a  
6 meeting we had, they were going to try and set  
7 something up so that we could have some additional  
8 conversations with the government of Japan to try and  
9 nail some of these things down.

10 MALE PARTICIPANT: Yes. I think we've got  
11 a meeting tonight at 7 p.m. with the cabinet office,  
12 and we're hoping to get a little bit more clarity on  
13 this. Actually, we're hoping to get the GOJ to come  
14 back across the list. Having scrubbed it, we gave it  
15 to them a couple of days ago.

16 MALE PARTICIPANT: So what we'll do is  
17 we'll, we won't take any further action on this.  
18 We'll wait a couple of days, maybe through this  
19 weekend. If there's no interest or action, then I  
20 suggest that we just close this out.

21 MALE PARTICIPANT: Great. Well, this is  
22 something we can specifically flag at tonight's  
23 meeting.

24 MALE PARTICIPANT: Yes. When we hear back  
25 from the government of Japan, they should be able to

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1 tell us the specifics that they're requesting. And  
2 then at that point in time, the process with the  
3 embassy is set up here, there will probably be further  
4 discussions with other donor nations so that not  
5 everybody goes out and tries to get the same thing.  
6 It will be a little bit more coordinated effort.

7 MALE PARTICIPANT: Right. That would be  
8 real good. And, frankly, this request originally came  
9 the first week after the accident, so it was kind of a  
10 shotgun thing: what might we need, and then what might  
11 we provide or guessing what the need would be. And as  
12 this gets further along, their recognition of what is  
13 needed is going to be a lot clearer, and they probably  
14 don't need a shopping list to draw from. They can  
15 just ask, and we'll try to provide.

16 MALE PARTICIPANT: Right. We met recently  
17 with (inaudible), and they had all received the same  
18 requests. So this is something we need to detangle  
19 (inaudible) for the moment until we get this  
20 detangled.

21 MALE PARTICIPANT: Yes. And then once it  
22 is detangled, then I think the next question is how  
23 are we going to go about this because some of this may  
24 go through -- if these are purchases for new  
25 equipment, it may go one way. If it's, you know,

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1 available used equipment that's going to be donated  
2 from the U.S., it may go a different way. So the  
3 first thing we need to do is to get back with the  
4 government in Japan, which is moving along, and then,  
5 once we have that information, we'll be able to more  
6 clearly pin down a specific actionable item.

7 MALE PARTICIPANT: Quite good then.

8 CINDY CARPENTER: All right. Any other  
9 discussion on that item?

10 MALE PARTICIPANT: Negative from INPO.

11 CINDY CARPENTER: Okay. So the last open  
12 item then is the (inaudible) devices for the  
13 (inaudible) removal and (inaudible).

14 MALE PARTICIPANT: Steve, my understanding  
15 on this one is that the government of Japan, from last  
16 night, has withdrawn their request for any equipment  
17 acquisition, but they still want us to help advise  
18 them on shielding. So I now realize that, after I  
19 spent two more hours doing emails, I never sent you  
20 updates on this. So I will send you updates as soon  
21 as we're done here that will bring the majority of the  
22 DOE things that are rattling around in my head on  
23 paper, okay?

24 CINDY CARPENTER: All right. So any other  
25 (inaudible) discussion item on that one? All right.

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1 Let's get back to the one that we skipped over because  
2 (inaudible) NRC site team --

3 MALE PARTICIPANT: Hang on. Regarding the  
4 robotic equipment, do you know who in the GOJ withdrew  
5 that request?

6 MALE PARTICIPANT: I believe it's the  
7 remote control project team.

8 MALE PARTICIPANT: Okay.

9 MALE PARTICIPANT: We have not (inaudible)  
10 interagency group that has next (phonetic), METI  
11 (phonetic), NISA, MOFA (phonetic), MOD (phonetic), and  
12 TEPCO, and (inaudible), and there's one other  
13 (inaudible). And they all (inaudible) I believe it  
14 was either Thursday night or Friday.

15 MALE PARTICIPANT: Okay. And they commit  
16 that by email?

17 MALE PARTICIPANT: We have written notes  
18 on that. We're actually supposed to be trying to  
19 gather up, if we have any studies or any documentation  
20 on, like, what are the most critical pieces  
21 (inaudible) of robotic devices. And then, you know,  
22 again, how much shielding you do depends on what your  
23 environment is, and part of the problem now is we  
24 don't have a good radiation mapping of the entire  
25 reactor site (inaudible).

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1 MALE PARTICIPANT: Okay, okay. The reason  
2 I ask is part of what we're trying to do here is also  
3 help the GOJ, so that we don't have, you know, parts  
4 moving that we don't know about. So it's always  
5 helpful to find out where you hear these updates from.

6 MALE PARTICIPANT: Yes. So when it comes  
7 to all the robotics stuff, that's then through, that  
8 is then through this remote control project.

9 MALE PARTICIPANT: Okay, thanks.

10 CINDY CARPENTER: All right. Any other  
11 discussion on that item?

12 (No response.)

13 CINDY CARPENTER: (Inaudible) site team  
14 during this (inaudible), are you on the phone?

15 MALE PARTICIPANT: Yes, I am. And we  
16 don't have any update on that yet. Once again, that's  
17 going to have to come back through the Japanese and  
18 specifically request an actionable item.

19 CINDY CARPENTER: Okay. So --

20 MALE PARTICIPANT: So we do have that one  
21 open, but that needs to come back from the Japanese.

22 CINDY CARPENTER: All right. Thank you.  
23 All right. That's all of the open items. Are there  
24 other actions? Anything new that we should add or  
25 something else we want to discuss (inaudible) phone

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1 call (inaudible).

2 MALE PARTICIPANT: No, that's pretty much  
3 it.

4 CINDY CARPENTER: So is there anything  
5 else from anybody on the phone?

6 MALE PARTICIPANT: This may be of marginal  
7 interest, but we've got a phone call from British  
8 Petroleum, from BP, stating that they had all kinds of  
9 shoe covers and rubber booties left over from the Gulf  
10 oil spill, 14 warehouses full of these things. So if  
11 there's, just be aware that there's a huge supply of  
12 these kinds of things, if needed.

13 MALE PARTICIPANT: Hey, Rick, do you have  
14 a contact name and number for that?

15 MALE PARTICIPANT: We do. Gary Waldroff  
16 (phonetic), are you still on the line?

17 GARY WALDROFF (PHONETIC): I am.

18 MALE PARTICIPANT: Can you get that?

19 GARY WALDROFF: I'll get it and get it to  
20 Alan (phonetic).

21 MALE PARTICIPANT: Yes, that would be good  
22 because what I think we'll do with that is pass that  
23 to Bill Berger (phonetic) so that he's aware of that  
24 surplus from the U.S. aid perspective. And then if it  
25 seems like we need that, he can pursue, perhaps, that

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1 connection. Were they interested in donating that or  
2 selling it?

3 MALE PARTICIPANT: Selling it at a reduced  
4 price.

5 MALE PARTICIPANT: Okay, okay.

6 MALE PARTICIPANT: They have so much of  
7 it, I think they're just, they would just be happy to  
8 clear out one or two of the warehouses. So I imagine  
9 it would be a huge price discount or a donation.

10 MALE PARTICIPANT: I think that's an  
11 excellent connection.

12 MALE PARTICIPANT: (b)(4)

13 (b)(4)

14  
15 MALE PARTICIPANT: Okay. Now, I think  
16 that's an excellent connection. We'll pass that to  
17 Bill so that he's aware of that.

18 CINDY CARPENTER: Good discussion. Thank  
19 you. Are there any other new action items that we  
20 should add to these or anything else that we should  
21 bring up?

22 MALE PARTICIPANT: This is Alan in Japan.  
23 I had some other things we should probably talk  
24 about, but no new action items.

25 CINDY CARPENTER: All right. Why don't

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1 you go ahead?

2 MALE PARTICIPANT: Okay. One of the  
3 things that we're trying to do, as you probably are  
4 well aware, we have a list that's being maintained at  
5 the embassy, and we feel that that's important because  
6 the embassy is closest to Japan and especially this  
7 cabinet meeting that occurred. So we want to make  
8 sure that the embassy goes through and accurately  
9 keeps its list up to date. We really appreciate all  
10 the work that, the embassy appreciates all the work  
11 that the NRC has been able to do through this point in  
12 time, but I think we need to coordinate a little bit  
13 of the activities so that the work is currently being  
14 done and updating the list that we have, the NRC has  
15 and Headquarters. We need to work through a process  
16 where that can be electronically transmitted to the  
17 appropriate people here at the embassy, and then the  
18 actual embassy list can be updated with that  
19 information with the goal of probably, longer term,  
20 moving that function to the embassy as things start  
21 to, as the -- well, the process is formalized. We're  
22 still working through the cabinet meeting and trying  
23 to finalize that process, I guess would be the best  
24 way to describe it.

25 So once that's done, I think the embassy

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1 would like and try to maintain this list. And we'll  
2 probably have some further discussions in the call,  
3 does it stay with NRC or does it move somewhere else.

4 But right now we want to continue down the same path  
5 that we're on until, I think, the embassy has  
6 finalized the process and then maybe transition.

7 So I think the first step is really to  
8 coordinate the list and updating the list that the NRC  
9 is doing now to coordinate that with the embassy, so  
10 the embassy can update the official list and then,  
11 perhaps, get that back to the NRC. And then the NRC  
12 can transmit that for these meetings.

13 MALE PARTICIPANT: Yes. I think, in the  
14 short term, what we're looking for is for the embassy  
15 to receive any belated changes and updates to this NRC  
16 list, which will really be in the status and comments  
17 section. So we can fold that in daily, and when we  
18 meet with the GOJ cabinet office we've got an up-to-  
19 date list to be able to answer their questions. After  
20 these evening meetings, we can fold in any changes and  
21 updates we get from the Japanese side and send them  
22 back to the NRC before the morning, this morning phone  
23 call.

24 MALE PARTICIPANT: Right. So I think,  
25 with that said, probably the person that's been taking

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1 care of it is Headquarters. The email address for  
2 down here would be?

3 MALE PARTICIPANT: It would be mine. I  
4 can email it out. It's my last name (inaudible).

5 MALE PARTICIPANT: Okay. And, in fact,  
6 this would be going to the liaison officer at  
7 Headquarters?

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: Okay. Now, the L-A-I-  
10 0-1?

11 MALE PARTICIPANT: L-I-A-0-6 and L-I-A-0-  
12 8.

13 MALE PARTICIPANT: L-I-A-0-6 and 0-8, and  
14 that would be @nrc.gov?

15 MALE PARTICIPANT: Let me give you the  
16 whole thing. It's lia06.hoc@nrc.gov, and then  
17 lia08.hoc@nrc.gov.

18 MALE PARTICIPANT: Okay, excellent. So  
19 we'll have the embassy point of contact here.

20 MALE PARTICIPANT: I'll send you a short  
21 email (inaudible) so we can keep in touch, so we can  
22 keep this updated. We just want to make sure that  
23 when we go into meetings with the cabinet that we're  
24 going in with the fully updated version of our  
25 spreadsheet.

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1 MALE PARTICIPANT: We agree. And I just  
2 sent Alan an email about that topic about a half hour  
3 ago or, actually, about an hour ago now.

4 MALE PARTICIPANT: Okay, excellent,  
5 excellent. Okay. I think any other issues with the  
6 list?

7 (No response.)

8 MALE PARTICIPANT: Okay, excellent. I  
9 think nothing else from the Japan NRC team.

10 CINDY CARPENTER: Alan, thank you so much.  
11 Is there anything else that we should discuss?

12 (No response.)

13 CINDY CARPENTER: All right. Hearing  
14 nothing else, I think we're done. And (inaudible).  
15 Nothing? All right. Well, thank you all so much.  
16 And we'll have another call tomorrow evening at 8:00,  
17 so thank you.

18 MALE PARTICIPANT: Thanks.

19 MALE PARTICIPANT: Thanks.

20

21

22

23

24

25

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1 (CONFERENCE CALL INITIATED)

2 MALE PARTICIPANT: Okay, Mr. Collins  
3 (phonetic), you're on the briefing bridge with the ET.

4 ELMO COLLINS (PHONETIC): This is Elmo  
5 (phonetic).

6 CINDY CARPENTER: Elmo, this is Cindy  
7 Carpenter. How are you doing?

8 ELMO COLLINS: Good. How can I help you?  
9 Hey, by the way, I'm on my way to a meeting, so we  
10 can talk for a couple of minutes. But then if we need  
11 to have an extended conversation, I should get back to  
12 you.

13 CINDY CARPENTER: Absolutely. That's  
14 (inaudible). Just very quick, we understand back here  
15 that you all are interested in getting Sandia  
16 (inaudible). (b)(5)

17 (b)(5)  
18  
19

20 ELMO COLLINS: Well, we'll give you a  
21 snippet. We may have to talk at a little further  
22 length. What we have assigned Sandia to do is taking  
23 the conditions as they exist today with no core,  
24 project it forward, and see what it would show with  
25 respect to the risks looking forward. Does that make

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1 sense? So they're using MELCOR (phonetic). I don't  
2 think we've done that so . . .

3 CINDY CARPENTER: Okay. (b)(5)

4 (b)(5)

5  
6 ELMO COLLINS: No, not to my knowledge.

7 CINDY CARPENTER: All right. We  
8 understood that it was the mac (phonetic) code, not  
9 (inaudible).

10 ELMO COLLINS: Well, at the end, but the  
11 Sandia people can also, they have the program here and

12 (b)(5)

13  
14  
15 MALE PARTICIPANT: Hey, Elmo. This is Joe  
16 (inaudible). I just stepped out for a minute. I  
17 didn't know you had called in already.

18 ELMO COLLINS: Well, I think there's a bit  
19 of confusion, Cindy, so if we could clarify this. It

20 (b)(5)

21  
22 CINDY CARPENTER: Oh, okay, okay.

23 ELMO COLLINS: (b)(5)

That's

24 my understanding so . . .

25 CINDY CARPENTER: Could this be perceived

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1 as an (inaudible) decision?

2 ELMO COLLINS: I'm sorry. I didn't, I  
3 didn't hear you.

4 CINDY CARPENTER: (b)(5)

5 (b)(5)

6 ELMO COLLINS: All right.

7 CINDY CARPENTER: Sir, we'll talk more  
8 after your meeting.

9 ELMO COLLINS: Okay, yes, let's do that.  
10 For some reason, it's a little distorted how you're  
11 coming across on the phone so . . .

12 CINDY CARPENTER: Okay.

13 ELMO COLLINS: But I would like to hear  
14 your questions.

15 CINDY CARPENTER: I'm sorry. Go ahead  
16 again.

17 ELMO COLLINS: Repeat your questions.

18 CINDY CARPENTER: (b)(5)

19 (b)(5)

20  
21  
22  
23  
24  
25 ELMO COLLINS: Oh, I don't think so. They

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1 just didn't want NARAK (phonetic) resources to be used  
2 up.

3 CINDY CARPENTER: Oh, okay. All right.  
4 So, basically, what you're looking to do is take  
5 conditions today, what we know, and do a MELCOR  
6 (phonetic) run basically?

7 ELMO COLLINS: So we can project forward  
8 and understand what we're up against.

9 CINDY CARPENTER: Okay.

10 ELMO COLLINS: All right.

11 CINDY CARPENTER: All right. Well, I'll  
12 pass that on to the PMP (phonetic) then.

13 ELMO COLLINS: Thank you.

14 CINDY CARPENTER: All right. Thanks,  
15 Elmo.

16 ELMO COLLINS: Bye.

17 CINDY CARPENTER: Bye.  
18  
19  
20  
21  
22  
23  
24

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